

ROTARY CAM SWITCHES AND SWITCH DISCONNECTORS



 **Lovato**
KONČAR

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GREBENASTE SKLOPKE

Grebenaste sklopke razvijene su prema suvremenim principima i dostignućima na području sklopnih aparata uz upotrebu visokokvalitetnih izolacijskih materijala i kontakata od srebrnih legura. Odlikuju se visokim sklopnim moćima, električnom i mehaničkom trajnošću kao i malim dimenzijama.

Grebenaste sklopke imaju višestruku primjenu za sklapanje u glavnim i pomoćnim strujnim krugovima:

- kao motorske sklopke mogu pogonski sigurno sklapati, upravljati i pokretati trofazne i jednofazne motore, a mogu se izvesti kao: preklopka zvijezda - trokut, preklopka za reverziranje, preklopka za motore s više brzina itd.
- u pomoćnim strujnim krugovima sastavljaju se prema željenom programu sklapanja: sklopke za upravljačke, signalne i mjerne krugove
- sklopke, preklopke i stepenaste sklopke npr. za transformatore i aparate za zavarivanje
- grupne sklopke npr. za sklapanje otpornika, grijača i rasvjete
- zakretna tipkala s automatskim povratom

Sklopke mogu imati najviše 12 upravljačkih položaja, a mogu se izvesti s kutem zakreta od 30°, 45°, 60° i 90°.

Kod sklopki s povećanim momentom prekreta (veliki broj elemenata sa specifičnim programom sklapanja, tipkala s većim brojem kontakata) u cilju sigurnijeg rada koriste se sklopke s većim razdjelnim uređajima koje imaju **oznaku B** (npr. GN20B).

Kod sklopki gdje se traži prednji sklop veći od standardnog, sklopke imaju **oznaku H** (npr. GN20H).

Ako se sklopke koriste za napone niže od 24V i male struje reda mA, u uvjetima prašnjave i agresivne atmosfere, tada se mogu izraditi s pozlaćenim kontaktima - sklopke imaju **oznaku G** (npr. GN20G)

Sklopke se mogu koristiti pri temperaturama okoline od - 25 °C do + 55 °C (na zahtjev od - 50 °C do + 60 °C).

Osim standardnih izvedbi (ugradna-U, odvojena-O, plastično kućište-P, limeno kućište-L), sklopke mogu biti isporučene sa čitavim nizom posebnih izvedbi te kao takove mogu ispuniti sve zahtjeve u najsofisticiranijim postrojenjima i uređajima.

Grebenaste sklopke udovoljavaju mnogim internacionalnim i nacionalnim propisima.

ROTARY CAM SWITCHES

Rotary cam switches have been designed on modern principles taking into consideration the latest achievements in the field of switching devices through the application of high quality insulation materials and contacts made with silver alloys.

Their advantages are: high making and breaking capacities, electrical and mechanical endurance and small dimensions. The rotary cam switches are intended for multiple switching operations in main as well as in auxiliary circuits:

- as motor switches they are designed for direct-online starting and stopping of single-phase and three-phase motors. They also come out as star-delta switches, reversing switches, pole-change over motor switches
- in auxiliary circuits they are assembled in compliance with the switching program according to preference: switches for control, signalling and measuring circuits:
- switches, selector switches and step switches e.g. for transformers and welding apparatuses
- group switches e.g. for switching operations of resistors, heaters and lighting
- control switch with automatic return

The rotary cam switches can have 12 control positions maximum and can be made with turning angle of 30°, 45°, 60° and 90°.

At the switches with the increased turn-over moment (large number of elements with specific switching diagram, switch with automatic return with larger number of contacts), due to more reliable operation, the switches with the bigger distribution device, **marked with B**, are used (e.g. GN20B).





At the switches where is front part bigger than standard size required, the switches are **marked with H** (e.g. GN20H).

When the switches are used at lower voltages than 24 V and currents of mA in dusty and aggressive environment, the contacts can be gold-plated - the switches are **marked with G** (e.g. GN20G)



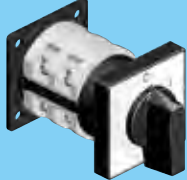



The switches can be used at the environment temperature from - 25 °C to + 55 °C (on request from - 50 °C to + 60 °C).

Besides the standard mounting forms (front mounting-U, rear mounting-O, plastic enclosure-P, steel enclosure-L) the switches are available with a large number of optional extras and they comply with all requirements in the most complicated plants and devices. Rotary cam switches comply with many international and national standards.

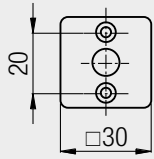

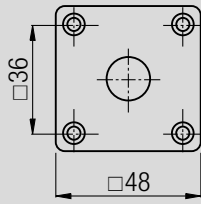

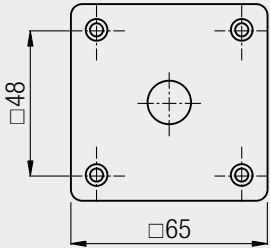


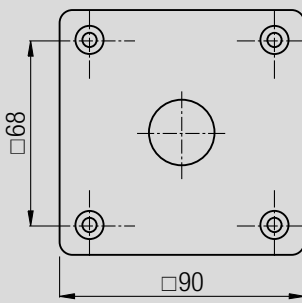


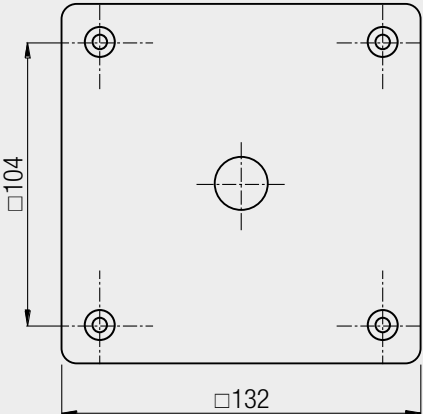



SERIJE GREBENASTIH SKLOPKI *SERIES OF CAM SWITCHES*

GN	GX	GF	G/4G
			
16 - 125A	16 - 40A	10 - 20A	200 - 2000A
<ul style="list-style-type: none"> - Veliki broj posebnih izvedbi - Šest dimenzijskih veličina - <i>Wide range of optional extras</i> - <i>Six different frame sizes</i> 	<ul style="list-style-type: none"> - Modernog četvrtastog oblika - Olakšano ožičavanje sklopke - Zaštita od dodira priklj. stezaljki - <i>Modern squared design</i> - <i>Easier wiring of the switch</i> - <i>Protection of inadvertent touch</i> 	<ul style="list-style-type: none"> - Reducirane dimenzije sklopke - Zaštita od dodira priklj. stezaljki - <i>Reduced size of the switch</i> - <i>Protection of inadvertent touch</i> 	<ul style="list-style-type: none"> - Robustna sklopka - <i>Robust switch</i>

STANDARDNI OBLICI UGRADNJE *STANDARD MOUNTING FORMS*

Oblik ugradnje <i>Mounting form</i>	Oznaka <i>Marking</i>	Zaštita / <i>Protection</i>			Veličina <i>Size</i>	Izgled <i>Outlook</i>
		Prednja <i>Front</i>	Stražnja <i>Rear</i>			
Ugradna sklopka <i>Front mounting</i>	U	IP 40	GX/GF IP 20	GN/G/4G IP 00	A0 A0 A1 A2 A3	
Ugradna sklopka s većim prednjim sklopom <i>Front mounting with the bigger front part i.e. mounting size</i>	U	IP 40	IP 20	IP 00	A1 A2	
Sklopka za odvojenu ugradnju <i>Rear mounting</i>	O	IP 40	IP 20	IP 00	A0 A1 A2 A3	
Sklopka za odvojenu ugradnju s većim prednjim sklopom <i>Rear mounting with the bigger front part i.e. mounting size</i>	O	IP 40	IP 20	IP 00	A1 A2	
Sklopka u plastičnom kućištu <i>Switch in plastic enclosure</i>	P		IP65		A0 A1 A2	
Sklopka u limenom kućištu <i>Switch in steel enclosure</i>	L		IP54		A3	

UGRADNE VELIČINE MOUNTING SIZES

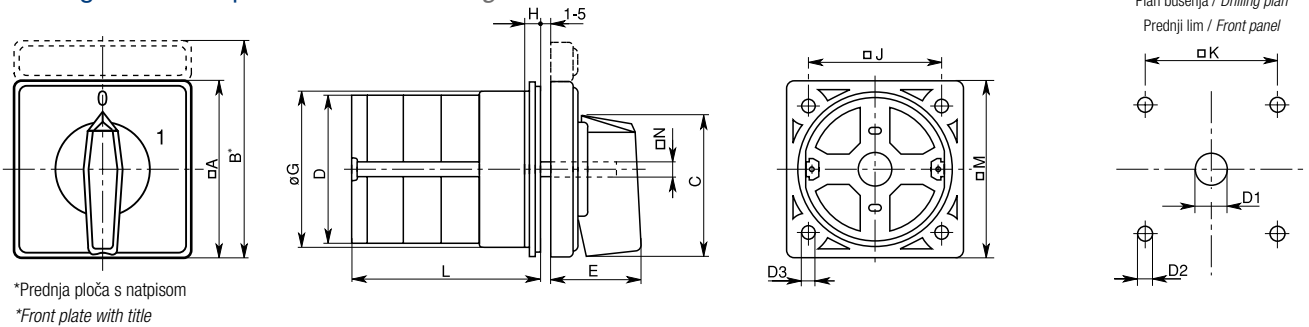
Veličina Size	Ugradne dimenzije Mounting dimensions (mm)	Standardne ručice Standard handles	Tip / Type				Termička struja Thermal current (A)	AC3 3 x 380/400 V (kW)	AC23 3 x 380/400 V (kW)
			GN	GX	GF	G/4G			
A00					GF10 GF20R	10 20	2,2 5	3 7,5	
A0			GN12		GF10H GX16 GF20	10 16 16 20	2,2 4 4,5 5	3 6 6,5 7,5	
A1		 	GN20 GN25	GX20	GF20H	20 25	5,5 7,5	7,5 11	
A2		 	GN32H GN40H GN63H GN125	GX32H GX40H		32 40 63 125	11 15 18,5 37	15 18,5 30 45	
A3		  			4G200 G315 4G400 G630 G900 G1200 G1600 G2000	200 315 400 630 900 1200 1600 2000	47 55 47 - - - - -	- 110 - 110 110 110 110 110	

SERIJA SERIES GN				GN12	GN20	GN25	GN32	GN40	GN63	GN125
				GN12H	GN20H	GN25H	GN32H	GN40H	GN63H	
Nazivni izolacijski napon <i>Rated insulation voltage</i>	U _i	IEC/VDE/BS	V	690	690	690	690	690	690	690
		UL/CSA	V	600	600	600	600	600	600	600
Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>	U _{imp}	IEC-60947 (III/3)	kV	6	6	6	6	6	6	8
Nazivna termička struja <i>Rated thermal current</i>	I _{th}	IEC/VDE/BS	A	16	20	25	32	40	63	125
		UL/CSA	A	15	20	30	40	50	60	130
Glavna sklopka IEC-60947 (III/3) (1) <i>Main switch</i>	Najveća vrijednost nazivnog pogonskog napona <i>Max. value of rated operational voltage</i> Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>		V	480	480	480	480	480	480	690
			kV	4	4	4	4	4	4	6
Max. veličina osigurača za zaštitu od kratkog spoja <i>Max. fuse size for short circuit protection</i>	I _n (gG/gL)	10 kA 25 kA 50 kA 63 kA	A	16 10 - -	20 16 - -	25 25 - -	32 32 - -	40 40 40 40	63 63 63 63	125 100 100 100
Nazivna kratkotrajno podnosiva struja <i>Rated short-time withstand current</i>	I _{cw}	1 sec 3 sec 10 sec 30 sec 60 sec	A	200 120 70 40 30	250 150 80 50 40	400 250 150 100 80	800 400 250 160 125	1000 600 300 200 130	1600 800 400 250 160	2100 1300 700 400 300
Nazivna pogonska struja <i>Rated operational current</i>	I _e	AC1/AC21A IEC/VDE/BS	A	16	20	25	32	40	63	125
		110 V	A	10	10	16	25	25	32	40
		AC15 IEC/VDE	A	8	8	12	20	22	25	28
		220/230 V	A	8	8	12	20	22	25	28
		380/400 V	A	4	6	8	10	12	15	15
		660/690 V	A	1,5	1,5	2	2	2	4	5
Motorska sklopka za kategoriju upotrebe <i>Motor switch in utilization category</i>	AC3	IEC/VDE/BS								
		220/230 V	kW	2,5	3	5,5	7,5	8	11	18,5
		3 faze 3 phase	kW	4	5,5	7,5	11	15	18,5	37
		500-690 V	kW	5,5	5,5	7,5	11	15	18,5	33
		110 V	kW	0,8	0,8	1,5	2,2	3	3,7	5
		220/230 V	kW	1,5	2,2	3	4	6,5	6,5	11
		380-440 V	kW	2,2	3	5,5	6,5	8	11,5	15
	AC23A	IEC/VDE/BS								
		220/230 V	kW	3	5	6,5	8	8	12,5	30
		3 faze 3 phase	kW	5,5	7,5	11	15	18,5	30	45
		500-690 V	kW	7,5	7,5	11	18,5	22	30	37
		110 V	kW	0,8	0,8	1,5	2,2	3	3,7	5
		220/230 V	kW	1,7	2,5	3,7	4	6	7,5	11
		380-440 V	kW	3	3,7	5,5	7,5	11	12,5	15
Motorska sklopka <i>Motor switch</i>	DOL	UL/CSA								
		120 V	HP	1,5	1,5	3	5	5	7,5	15
		3 faze	HP	3	3	5	10	10	15	25
		480 V	HP	-	-	10	15	20	25	50
		3 phase	HP	-	-	15	15	20	25	40
Prekidanje kod istosmjernje struje <i>DC Switching capacity</i>	DC21A T = 1 ms	48 V	A	12	20	25	32	40	63	125
	Nazivna struja	60 V	A	12	20	25	32	40	50	80
	I _e	110 V	A	4	4	4	6	6	8	10
	za 1 kontakt	220 V	A	0,6	0,6	0,7	0,9	0,9	1	1,2
	for 1 contact	440 V	A	0,25	0,25	-	-	-	-	-
	DC23 T = 15 ms	24 V	A	10(1)	20(1)	25(1)	32(1)	40(1)	50(1)	125(1)
	Nazivna struja	48 V	A	10(2)	20(2)	25(2)	32(2)	40(2)	50(2)	125(2)
	I _e	60 V	A	10(3)	20(3)	25(3)	32(3)	40(3)	50(3)	125(3)
	(Broj kontakata u seriji)	110 V	A	5(3)	10(3)	12(3)	15(3)	20(3)	25(3)	50(3)
	(Number of series contacts)	220 V	A	5(4)	8(4)	10(4)	12(4)	12(4)	15(4)	20(4)
	DC13 T = 50 ms	48 V	A	10	16	20	25	32	40	100
	Nazivna struja	60 V	A	8	12	16	16	16	28	50
	I _e	110 V	A	1	1	1,5	3	3	3,3	4
	za 1 kontakt	220 V	A	0,4	0,4	0,4	0,5	-	-	-
	for 1 contact	440 V	A	0,15	0,15	-	-	-	-	-
Mehanička trajnost <i>Mechanical durability</i>		Broj uklopa <i>Switching cycles</i>		5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶	1 x 10 ⁶
Priključni vijak <i>Terminal screw</i>			M	3	3	3,5	4	4	5	2 x 5
Moment pritezanja priključnog vijka <i>Terminal tightening torque</i>		(IEC)	Nm	0,5	0,5	0,8	1,2	1,2	2	2
Presjek vodiča <i>Conductor size</i>	max. r/f	2 x $\frac{\text{mm}^2}{\text{AWG}}$		2,5/2,5 12/14	2,5/2,5 12/14	4/4 10/12	6/4 8/10	10/6 8/10	16/10 6/8	50/50 1/0 / 1/0
	min. r/f	2 x $\frac{\text{mm}^2}{\text{AWG}}$		0,5/0,5 20/20	0,5/0,5 20/20	0,5/0,5 20/20	1,5/1,5 16/16	1,5/1,5 16/16	2,5/2,5 14/14	2,5/2,5 14/14

(1) Vrijedi za mreže sa uzemljenim zvjezdištem, prenaponska kategorija III, stupanj zagađenja 3 / Valid for neutral earthed systems, overvoltage category III, pollution degree 3

MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

U - Ugradna sklopka Front mounting

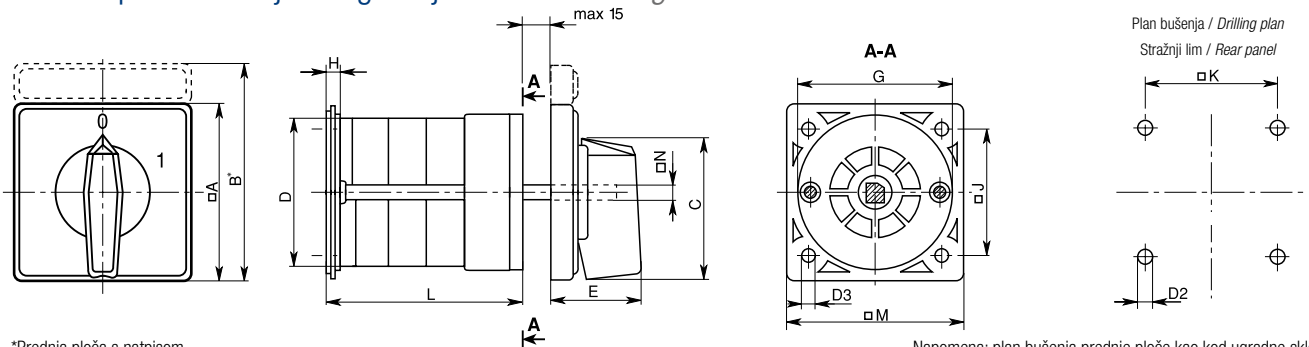


*Prednja ploča s natpisom
*Front plate with title

Tip/Type	Oznaka / Marking														Broj elemenata												L	Number of elements											
	A	B	C	D	D1	D2	D3	E	G	H	J	K	M	N	1	2	3	4	5	6	7	8	9	10	11	12													
GN12	48	60	39,5	39	12	5	4,3	26,5	38	5	36	36	48	6	33,1	42,8	52,5	62,2	71,9	81,6	91,3	101	110,7	120,4	130,1	139,8													
GN12H	65	80,5	53	39	12	5	4,3	34,5	38	5,5	48	48	65	6	33,6	43,3	53	62,7	72,4	82,1	91,8	101,5	111,2	120,9	130,6	140,3													
GN20	48	60	39,5	39	12	5	4,3	26,5	38	5	36	36	48	6	33,1	42,8	52,5	62,2	71,9	81,6	91,3	101	110,7	120,4	130,1	139,8													
GN20H	65	80,5	53	39	12	5	4,3	34,5	38	5,5	48	48	65	6	33,6	43,3	53	62,7	72,4	82,1	91,8	101,5	111,2	120,9	130,6	140,3													
GN25	48	60	39,5	43	12	5	4,3	26,5	38	5	36	36	48	6	37,5	51,1	64,7	78,3	91,9	105,5	119,1	132,7	146,3	159,9	173,5	187,1													
GN25H	65	80,5	53	43	12	5	4,3	34,5	38	5,5	48	48	65	6	38	51,6	65,2	78,8	92,4	106	119,6	133,2	146,8	160,4	174	187,6													
GN32	65	80,5	53	56	14	5	4,3	34,5	58,5	5,5	48	48	65	7	40,9	54,5	68,1	81,7	95,3	108,9	122,5	136,1	149,7	163,3	176,9	190,5													
GN32H	90	110	70,5	56	14	6	5,3	41,5	58,5	7,5	68	68	90	7	41,6	55,2	68,8	82,4	96	109,6	123,2	136,8	150,4	164	177,6	191,2													
GN40	65	80,5	53	58	14	5	4,3	34,5	58,5	5,5	48	48	65	7	43,5	58,6	73,7	88,8	103,9	119	134,1	149,2	164,3	179,4	194,5	209,6													
GN40H	90	110	70,5	58	14	6	5,3	41,5	58,5	7,5	68	68	90	7	44,2	59,3	74,4	89,5	104,6	119,7	134,8	149,9	165	180,1	195,2	210,3													
GN63	65	80,5	53	62	14	5	4,3	34,5	58,5	5,5	48	48	65	7	47,3	65,4	83,5	101,6	119,7	137,8	155,9	174	192,1	210,2	228,3	246,4													
GN63H	90	110	70,5	62	14	6	5,3	41,5	58,5	7,5	68	68	90	7	48	66,1	84,2	102,3	120,4	138,5	156,6	174,7	192,8	210,9	229	247,1													
GN125	90	110	70,5	86	16	6	5,3	41,5	84	7,5	68	68	90	9	67,3	96,4	125,5	154,6	183,7	220,3	249,4	278,5	307,6	336,7	365,8	394,9													

Napomena: kod sklopke GN125 sa 6 i više elemenata ugrađujemo prednju ploču i straga
Remark: at the switch GN125 with 6 and more elements the front plate is mounted also at the back side

O - Sklopka za odvojenu ugradnju Rear mounting



*Prednja ploča s natpisom
*Front plate with title

Napomena: plan bušenja prednje ploče kao kod ugradne sklopke (U)
Remark: drilling plan of front panel as at front mounting switch (U)

Tip/Type	Oznaka / Marking														Broj elemenata												L	Number of elements											
	A	B	C	D	D2	D3	E	G	H	J	K	M	N	1	2	3	4	5	6	7	8	9	10	11	12														
GN12	48	60	39,5	39	5	4,3	26,5	38	5	36	36	48	6	38,1	47,8	57,5	67,2	76,9	86,6	96,3	106	115,7	125,4	135,1	144,8														
GN12H	65	80,5	53	39	5	4,3	34,5	38	5,5	48	48	65	6	38,6	48,3	58	67,7	77,4	87,1	96,8	106,5	116,2	125,9	135,6	145,3														
GN20	48	60	39,5	39	5	4,3	26,5	38	5	36	36	48	6	38,1	47,8	57,5	67,2	76,9	86,6	96,3	106	115,7	125,4	135,1	144,8														
GN20H	65	80,5	53	39	5	4,3	34,5	38	5,5	48	48	65	6	38,6	48,3	58	67,7	77,4	87,1	96,8	106,5	116,2	125,9	135,6	145,3														
GN25	48	60	39,5	43	5	4,3	26,5	38	5	36	36	48	6	42,5	56,1	69,7	83,3	96,9	110,5	124,1	137,7	151,3	164,9	178,5	192,1														
GN25H	65	80,5	53	43	5	4,3	34,5	38	5,5	48	48	65	6	43	56,6	70,2	83,8	97,4	111	124,6	138,2	151,8	165,4	179	192,6														
GN32	65	80,5	53	56	5	4,3	34,5	58,5	5,5	48	48	65	7	45,9	59,5	73,1	86,7	100,3	113,9	127,5	141,1	154,7	168,3	181,9	195,5														
GN32H	90	110	70,5	56	6	5,3	41,5	58,5	7,5	68	68	90	7	46,6	60,2	73,8	87,4	101	114,6	128,2	141,8	155,4	169	182,6	196,2														
GN40	65	80,5	53	58	5	4,3	34,5	58,5	5,5	48	48	65	7	48,5	63,6	78,7	93,8	108,9	124	139,1	154,2	169,3	184,4	199,5	214,6														
GN40H	90	110	70,5	58	6	5,3	41,5	58,5	7,5	68	68	90	7	49,2	64,3	79,4	94,5	109,6	124,7	139,8	154,9	170	185,1	200,2	215,3														
GN63	65	80,5	53	62	6	5,3	34,5	58,5	7,5	68	68	90	7	53,3	71,4	89,5	107,6	125,7	143,8	161,9	180	198,1	216,2	234,3	252,4														
GN63H	90	110	70,5	62	6	5,3	41,5	58,5	7,5	68	68	90	7	53,3	71,4	89,5	107,6	125,7	143,8	161,9	180	198,1	216,2	234,3	252,4														
GN125	90	110	70,5	86	6	5,3	41,5	84	7,5	68	68	90	9	74,8	103,9	133	162,1	191,2	220,3	249,4	278,5	307,6	336,7	365,8	394,9														

Napomena: kod sklopke GN125 sa 6 i više elemenata ugrađujemo prednju ploču i srijeda
Remark: at the switch GN125 with 6 and more elements the front plate is mounted also at the front side

B - Sklopka s većim razdjelnim uređajem Switch with bigger distribution device

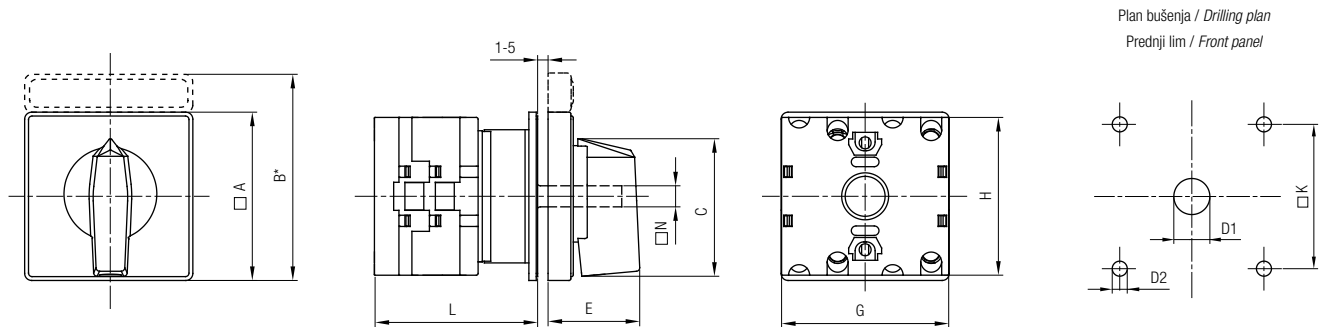
Tip/Type	Broj elemenata												L	Number of elements											
	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12
GN12B - U	39,8	49,5	59,2	68,9	78,6	88,3	98	107,7	117,4	127,1	136,9	146,5	GN12B - O	44,8	54,5	64,2	73,9	83,6	93,3	103	112,7	122,4	132,1	141,8	151,5
GN20B - U	39,8	49,5	59,2	68,9	78,6	88,3	98	107,7	117,4	127,1	136,9	146,5	GN20B - O	44,8	54,5	64,2	73,9	83,6	93,3	103	112,7	122,4	132,1	141,8	151,5
GN25B - U	44,2	57,8	71,4	85	98,6	112,2	125,8	139,4	153	166,6	180,2	193,8	GN25B - O	49,2	62,8	76,4	90	103,6	117,2	130,8	144,4	158	171,6	185,2	198,8
GN32B - U	51,3	64,9	78,5	92,1	105,7	119,3	132,9	146,5	160,1	173,7	187,3	200,9	GN32B - O	58,8	72,4	86	99,6	113,2	126,8	140,4	154	167,6	181,2	194,8	208,4
GN40B - U	53,9	69	84,1	99,2	114,3	129,4	144,5	159,6	174,7	189,8	204,9	220	GN40B - O	61,4	76,5	91,6	106,7	121,8	136,9	152	167,1	182,2	197,3	212,4	227,5
GN63B - U	57,7	75,8	93,9	112	130,1	148,2	166,3	184,4	202,5	220,6	238,7	256,8	GN63B - O	65,2	83,3	101,4	119,5	137,6	155,7	173,8	191,9	210	228,1	246,2	264,3

SERIJA SERIES GX				GX16 GX16H	GX20 GX20H	GX32 GX32H	GX40 GX40H		
Nazivni izolacijski napon <i>Rated insulation voltage</i>	U _i	IEC/VDE/BS	V	690	690	690	690		
Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>	U _{imp}	UL/CSA IEC-60947 (III/3)	V kV	600 6	600 6	600 6	600 6		
Nazivna termička struja <i>Rated thermal current</i>	I _{th}	IEC/VDE/BS UL/CSA	A A	16 12	20 15	32 32	40 40		
Glavna sklopka IEC-60947 (III/3) (1) <i>Main switch</i>	Najveća vrijednost nazivnog pogonskog napona <i>Max. value of rated operational voltage</i> Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>		V kV	440 4	440 4	440 4	440 4		
Max. veličina osigurača za zaštitu od kratkog spoja <i>Max. fuse size for short circuit protection</i>	I _n (gG/gL)	10 kA 25 kA	A A	16 16	20 16	35 35	40 35		
Nazivna kratkotrajno podnosiva struja <i>Rated short-time withstand current</i>	I _{cw}	1 sec	A	250	250	1000	1000		
Nazivna pogonska struja <i>Rated operational current</i>	I _e	AC1/AC21A IEC/VDE/BS 110 V 220/230 V AC15 380/400 V IEC/VDE 660/690 V	A A A A A A	16 10 8 4 1,5	20 10 8 6 1,5	32 25 20 10 2	40 25 22 12 2		
Motorska sklopka za kategoriju upotrebe <i>Motor switch in utilization category</i>	AC3 AC23A	IEC/VDE/BS 3 faze 3 phase 1 faza, 2 pola 1 phase, 2 pole	220/230 V 380-440 V 500-690 V 120 V 220/230 V 380-440 V	kW kW kW kW kW kW	3,5 4,5 5,5 - 1,5 2,2	3,7 5,5 5,5 - 1,8 3	7,5 11 11 1,8 3,5 5,5	7,5 15 15 2,2 4,4 7	
Motorska sklopka <i>Motor switch</i>	DOL	UL/CSA 3 faze 3 phase	120 V 240 V 480 V 600 V	HP HP HP HP	1,5 3 5 5	1,5 3 5 5	3 7,5 15 15	5 10 15 15	
Prekidanje kod istosmjernje struje <i>DC Switching capacity</i>	DC21A DC23 DC13	T = 1 ms Nazivna struja <i>Rated current</i> za 1 kontakt <i>for 1 contact</i> T = 15 ms Nazivna struja <i>Rated current</i> , (Broj kontakata u seriji) <i>(Number of series contacts)</i> T = 50 ms Nazivna struja <i>Rated current</i> za 1 kontakt <i>for 1 contact</i>	I _e	48 V 60 V 110 V 220 V 440 V 24 V 48 V 60 V 110 V 220 V 48 V 60 V 110 V 220 V 440 V	A A A A A A A A A A A A A A A	16 16 4 0,6 0,25 16(1) 16(2) 16(3) 10(3) 10(4) 14 10 1 0,4 0,15	20 20 4 0,6 0,25 20(1) 20(2) 20(3) 10(3) 8(4) 16 12 1 0,4 0,15	32 32 5 0,8 0,25 32(1) 32(2) 32(3) 15(3) 12(4) 25 14 3 0,5 0,15	40 40 6 0,8 0,25 40(1) 40(2) 40(3) 40(3) 12(4) 32 16 3 0,5 0,15
Mehanička trajnost <i>Mechanical durability</i>		Broj uklopa <i>Switching cycles</i>		1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶		
Priključni vijak <i>Terminal screw</i>			M	3	3	4	4		
Moment pritezanja priključnog vijka <i>Terminal tightening torque</i>		(IEC)	Nm	0,5	0,5	1,2	1,2		
Presjek vodiča <i>Conductor size</i>	max. r/f		2 x $\frac{\text{mm}^2}{\text{AWG}}$	2,5/2,5 12/12	2,5/2,5 12/12	10/6 8/10	10/6 8/10		
r = kruti, višezilni / rigid f = finožičani / flexible	min. r/f		2 x $\frac{\text{mm}^2}{\text{AWG}}$	0,5/0,5 20/20	0,5/0,5 20/20	1,5/1,5 16/16	1,5/1,5 16/16		

(1) Vrijedi za mreže sa uzemljenim zvjezdastim, prenaponska kategorija III, stupanj zagađenja 3 / Valid for neutral earthed systems, overvoltage category III, pollution degree 3

MJERNE SKICE *DIMENSIONAL DRAWINGS* (mm)

U - Ugradna sklopka *Front mounting*

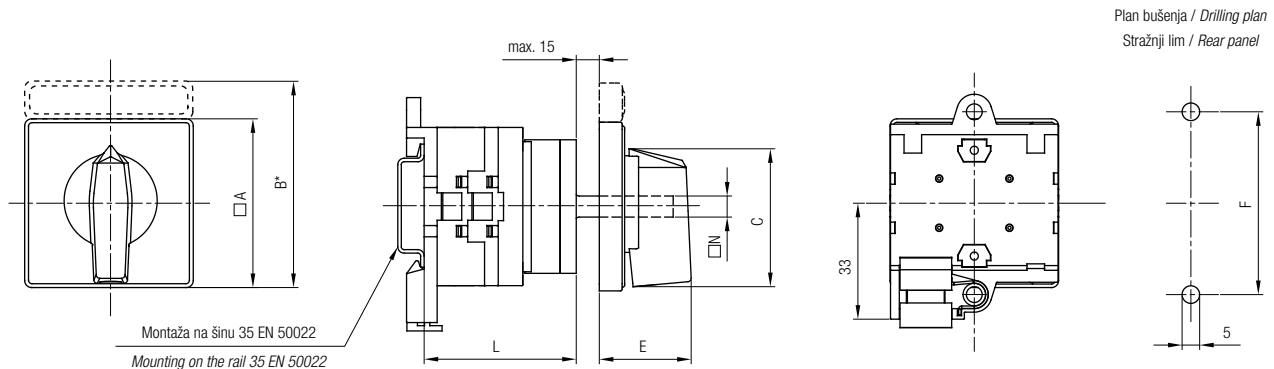


Plan bušenja / *Drilling plan*
Prednji tim / *Front panel*

*Prednja ploča s natpisom
**Front plate with title*

Tip/Type	Oznaka / <i>Marking</i>										Broj elemenata / <i>L</i> / <i>Number of elements</i>											
	□A	B	C	ØD1	ØD2	E	G	H	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
GX16	48	60	39,5	12	5	26,5	47,7	45	36	6	40	48,5	57	65,5	74	82,5	91	99,5	108	116,5	125	133,5
GX16H	65	80,5	53	12	5	34,5	47,7	45	48	6	40,5	49	57,5	66	74,5	83	91,5	100	108,5	117	125,5	134
GX20	48	60	39,5	12	5	26,5	47,7	45	36	6	40	48,5	57	65,5	74	82,5	91	99,5	108	116,5	125	133,5
GX20H	65	80,5	53	12	5	34,5	47,7	45	48	6	40,5	49	57,5	66	74,5	83	91,5	100	108,5	117	125,5	134
GX32	65	80,5	53	14	5	34,5	66	58	48	7	48	60	72	84	96	108	120	132	144	156	168	180
GX32H	90	110	70,5	14	6	41,5	66	58	68	7	50	62	74	86	98	110	122	134	146	158	170	182
GX40	65	80,5	53	14	5	34,5	66	58	48	7	48	60	72	84	96	108	120	132	144	156	168	180
GX40H	90	110	70,5	14	6	41,5	66	58	68	7	50	62	74	86	98	110	122	134	146	158	170	182

O - Sklopka za odvojenu ugradnju *Rear mounting*



Plan bušenja / *Drilling plan*
Stražnji tim / *Rear panel*

Montaža na šinu 35 EN 50022
Mounting on the rail 35 EN 50022

*Prednja ploča s natpisom
**Front plate with title*

Napomena: plan bušenja prednje ploče kao kod ugradne sklopke (U)
Remark: drilling plan of front panel as at front mounting switch (U)

Tip/Type	Oznaka / <i>Marking</i>							Broj elemenata / <i>L</i> / <i>Number of elements</i>											
	□A	B	C	E	F	□N	1	2	3	4	5	6	7	8	9	10	11	12	
GX16	48	60	39,5	26,5	52	6	37	45,5	54	62,5	71	79,5	88	96,5	105	113,5	122	130,5	
GX16H	65	80,5	53	34,5	52	6	37	45,5	54	62,5	71	79,5	88	96,5	105	113,5	122	130,5	
GX20	48	60	39,5	26,5	52	6	37	45,5	54	62,5	71	79,5	88	96,5	105	113,5	122	130,5	
GX20H	65	80,5	53	34,5	52	6	37	45,5	54	62,5	71	79,5	88	96,5	105	113,5	122	130,5	
GX32	65	80,5	53	34,5	68	7	48	60	72	84	96	108	120	132	144	156	168	180	
GX32H	90	110	70,5	41,5	68	7	48	60	72	84	96	108	120	132	144	156	168	180	
GX40	65	80,5	53	34,5	68	7	48	60	72	84	96	108	120	132	144	156	168	180	
GX40H	90	110	70,5	41,5	68	7	48	60	72	84	96	108	120	132	144	156	168	180	

B - Sklopka s većim razdjelnim uređajem *Switch with bigger distribution device*

Tip/Type	Broj elemenata / <i>L</i> / <i>Number of elements</i>											
	1	2	3	4	5	6	7	8	9	10	11	12
GX16B - U	46,7	55,2	63,7	72,2	80,7	89,2	97,7	106,2	114,7	123,2	131,7	140,2
GX20B - U	46,7	55,2	63,7	72,2	80,7	89,2	97,7	106,2	114,7	123,2	131,7	140,2
GX32B - U	58,4	70,4	82,4	94,5	106,4	118,4	130,4	142,4	154,4	166,4	178,4	190,4
GX40B - U	58,4	70,4	82,4	94,4	106,4	118,4	130,4	142,4	154,4	166,4	178,4	190,4

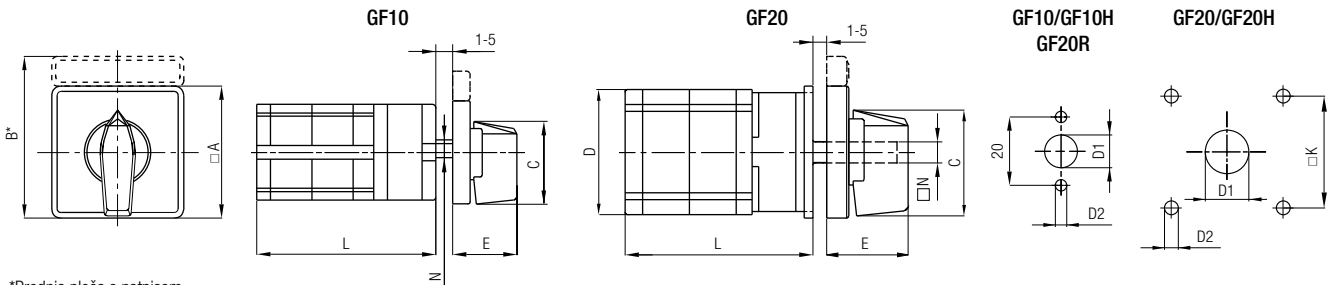
SERIJA SERIES GF					GF10 GF10H	GF20 GF20H GF20R
Nazivni izolacijski napon <i>Rated insulation voltage</i>	U _i	IEC/VDE/BS	V	480	480	
Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>	U _{imp}	UL/CSA IEC-60947 (III/3)	V kV	240 4	240 4	
Nazivna termička struja <i>Rated thermal current</i>	I _{th}	IEC/VDE/BS UL/CSA	A A	10 10	20 15	
Glavna sklopka IEC-60947 (III/3) (1) <i>Main switch</i>	Najveća vrijednost nazivnog pogonskog napona <i>Max. value of rated operational voltage</i> Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>		V kV	480 4	480 4	
Max. veličina osigurača za zaštitu od kratkog spoja <i>Max. fuse size for short circuit protection</i>	I _n (gG/gL)	3 kA 5 kA 10 kA 25 kA	A A A A	16 16 10 -	20 20 20 20	
Nazivna kratkotrajno podnosiva struja <i>Rated short-time withstand current</i>	I _{cw}	1 sec	A	250	250	
Nazivna pogonska struja <i>Rated operational current</i>	I _e	AC1/AC21A IEC/VDE/BS 120 V AC15 220/230 V IEC/VDE 380/400 V	A A A A	10 5 3 2	20 10 8 6	
Motorska sklopka za kategoriju upotrebe <i>Motor switch in utilization category</i>	AC3 AC23A	IEC/VDE/BS 3 faze 3 phase 1 faza, 2 pola 1 phase, 2 pole	220/230 V 380-440 V 110 V 220/230 V 380-440 V	kW kW kW kW kW kW kW	1,5 2,2 0,3 0,55 0,75 1,8 3 0,7 0,75 1,1	3 5 0,5 1,5 2 4 7,5 0,75 2 2,5
Motorska sklopka <i>Motor switch</i>	DOL	UL/CSA 3 faze 3 phase	240 V	HP	2 3	
Prekidanje kod istosmjernje struje <i>DC Switching capacity</i>	DC21A T = 1 ms Nazivna struja <i>Rated current</i> za 1 kontakt <i>for 1 contact</i>		48 V 60 V 110 V 220 V 440 V	A A A A A	10 7 2 0,7 0,2	20 20 4 0,7 0,2
	DC13 T = 50 ms Nazivna struja <i>Rated current</i> za 1 kontakt <i>for 1 contact</i>		48 V 60 V 110 V 220 V 440 V	A A A A A	3 2 1 0,3 0,1	6 3 1 0,4 0,15
Mehanička trajnost <i>Mechanical durability</i>	Broj uklopa <i>Switching cycles</i>			1 x 10 ⁶	1 x 10 ⁶	
Priključni vijak <i>Terminal screw</i>			M	2,5	3	
Moment pritezanja priključnog vijka <i>Terminal tightening torque</i>	(IEC)			Nm	0,4 0,5	
Presjek vodiča <i>Conductor size</i>	max. r/f	2 x		mm ² AWG	1,5/1,5 14/14	2,5/2,5 12/12
r = kruti, višezilni / rigid f = finožičani / flexible	min. r/f	2 x		mm ² AWG	0,5/0,5 20/20	0,5/0,5 20/20

(1) Vrijedi za mreže sa uzemljenim zvjezdlištem, prenaponska kategorija III, stupanj zagađenja 3 / Valid for neutral earthed systems, overvoltage category III, pollution degree 3

MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

U - Ugradna sklopka *Front mounting*

Plan bušenja / Drilling plan
Prednji lim / Front panel

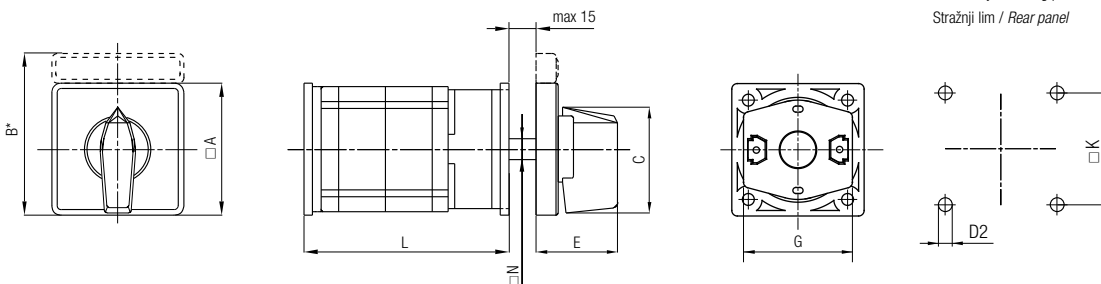


*Prednja ploča s natpisom
*Front plate with title

Tip/Type	Oznaka / Marking									Broj elemenata						Number of elements					
	□A	B	C	D	∅D1	∅D2	E	□K	N	1	2	3	4	5	6	7	8	9	10	11	12
GF10	30	40	24	29	9	3,2	18,5	-	∅5	40	52	64	76	88	100	112	124	-	-	-	-
GF20	48	60	39,5	36	12	5	26,5	36	□6	41	54,5	68	81,5	95	108,5	122	135,5	149	162,5	176	189,5
GF10H	48	60	39,5	29	12	5	26,5	36	□6	40	52	64	76	88	100	112	124	-	-	-	-
GF20H	65	80,5	53	36	12	5	34,5	48	□6	41,5	55	68,5	82	95,5	109	122,5	136	149,5	163	176,5	199
GF20R	30	40	24	29	9	3,2	18,5	-	∅5	41,5	53,5	67	80,5	94	107,5	-	-	-	-	-	-

O - Sklopka za odvojenu ugradnju *Rear mounting*

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



*Prednja ploča s natpisom
*Front plate with title

Napomena: plan bušenja prednje ploče kao kod ugradne sklopke (U)
Remark: drilling plan of front panel as at front mounting switch (U)

Tip/Type	Oznaka / Marking									Broj elemenata						Number of elements					
	□A	B	C	∅D1	∅D2	E	G	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
GF20	48	60	39,5	12	5	26,5	38	36	6	46	59,5	73	86,5	100	113,5	127	140,5	154	167,5	181	194,5
GF20H	65	80,5	53	12	5	34,5	38	48	6	47	60,5	74	87,5	101	114,4	128	141,5	155	168,5	182	195,5

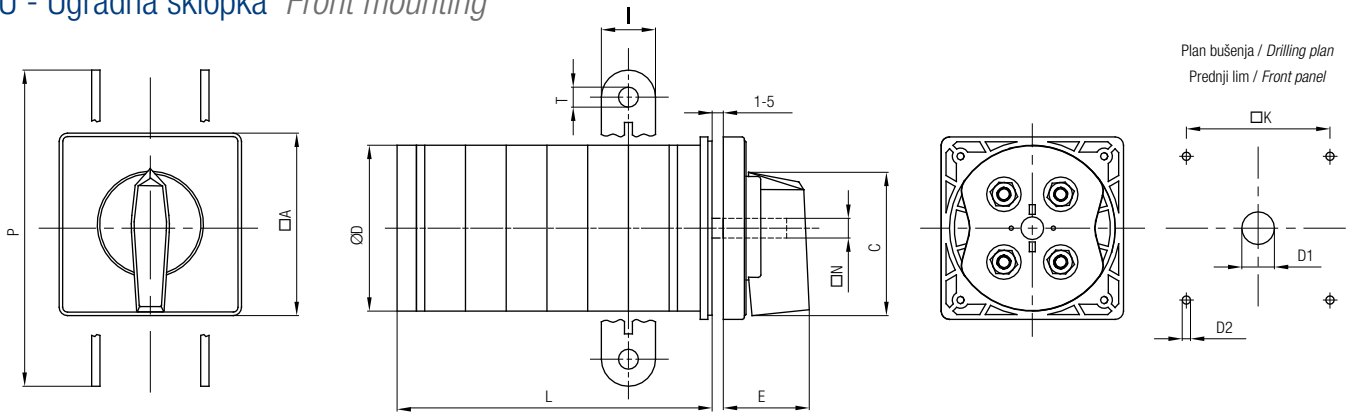
SERIJA SERIES G/4G

				4G200	G315	4G400	G630	G900	G1200	G1600	G2000
Nazivni izolacijski napon <i>Rated insulation voltage</i>	U _i	IEC/VDE/BS	V	690	690	690	690	690	690	690	690
Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>	U _{imp}	UL/CSA IEC-60947 (III/3)	V kV	600 8	600 8	- 8	- 8	- 8	- 8	- 8	- 8
Nazivna termička struja <i>Rated thermal current</i>	I _{th}	IEC/VDE/BS UL/CSA	A A	200 200	315 255	400 -	630 -	900 -	1200 -	1600 -	2000 -
Glavna sklopka IEC-60947 (III/3) (1) <i>Main switch</i>	Najveća vrijednost nazivnog pogonskog napona <i>Max. value of rated operational voltage</i> Nazivni udarni podnosivi napon <i>Rated impulse withstand voltage</i>		V kV	690 6	690 6	690 6	690 6	690 6	690 6	690 6	690 6
Max. veličina osigurača za zaštitu od kratkog spoja <i>Max. fuse size for short circuit protection</i>	I _n (aR)	15 kA	A	200	315	400	630	900	1250	2x800	2x1000
Nazivna kratkotrajno podnosiva struja <i>Rated short-time withstand current</i>	I _{cw}	1 sec 3 sec 10 sec 30 sec 60 sec	A A A A A	3300 2000 1100 640 460	5200 3200 1800 1100 800	6500 3800 2000 1200 850	8000 6500 3600 2100 1500	14500 9200 5500 3300 2400	18200 12000 8000 4500 3600	24500 16500 8800 5700 4000	33000 20000 10500 7000 5000
Nazivna pogonska struja <i>Rated operational current</i>	I _e	AC1/AC21A IEC/VDE/BS	A	200	315	400	630	900	1200	1600	2000
Motorska sklopka za kategoriju upotrebe <i>Motor switch in utilization category</i>	AC3 AC23B	IEC/VDE/BS 3 faze 3 faze	220/230 V 380-440 V 690 V 110 V 220/230 V 380-440 V 220/230 V 380-440 V	kW kW kW kW kW kW kW kW	27,5 47 - - - - - -	37 55 69 11 22 30 75 110 45	27,5 - - - - - - 75 110 45	- - - - - - - 75 110 45	- - - - - - - 75 110 45	- - - - - - - 75 110 45	- - - - - - - 75 110 45
Motorska sklopka <i>Motor switch</i>	DOL	UL/CSA 3 faze 3 faze	120 V 240 V 480 V 600 V	HP HP HP HP	30 50 100 75	30 50 100 75	- - - -	- - - -	- - - -	- - - -	- - - -
Prekidanje kod istosmjerne struje <i>DC Switching capacity</i>	DC21A	T = 1 ms Nazivna struja <i>Rated current</i> za 1 kontakt <i>for 1 contact</i>	24 V 48 V 60 V 110 V 220 V 440 V	A A A A A A	200 200 200 35 2,5 0,9	200 200 200 35 2,5 0,9	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
		DC1(I _{th}) Potreban broj kontakata u seriji <i>Number of series contacts</i>	48 V 60 V 110 V 220 V 440 V		1 1 3 4 8	1 1 3 4 8	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
Mehanička trajnost <i>Mechanical durability</i>		Broj uklopa <i>Switching cycles</i>			2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵	2 x 10 ⁵
Priključni vijak <i>Terminal screw</i>				M	10	10	12	12	16	16	4 x 12 4 x 12
Moment pritezanja priključnog vijka <i>Terminal tightening torque</i>		(IEC)		Nm	10	10	14	14	25	25	14 14
Presjek vodiča <i>Conductor size</i>		max.	Širina <i>Width</i>	mm	20	20	45	45	74	50	80 110

(1) Vrijedi za mreže sa uzemljenim zvjezdastim, prenaponska kategorija III, stupanj zagađenja 3 / Valid for neutral earthed systems, overvoltage category III, pollution degree 3

MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

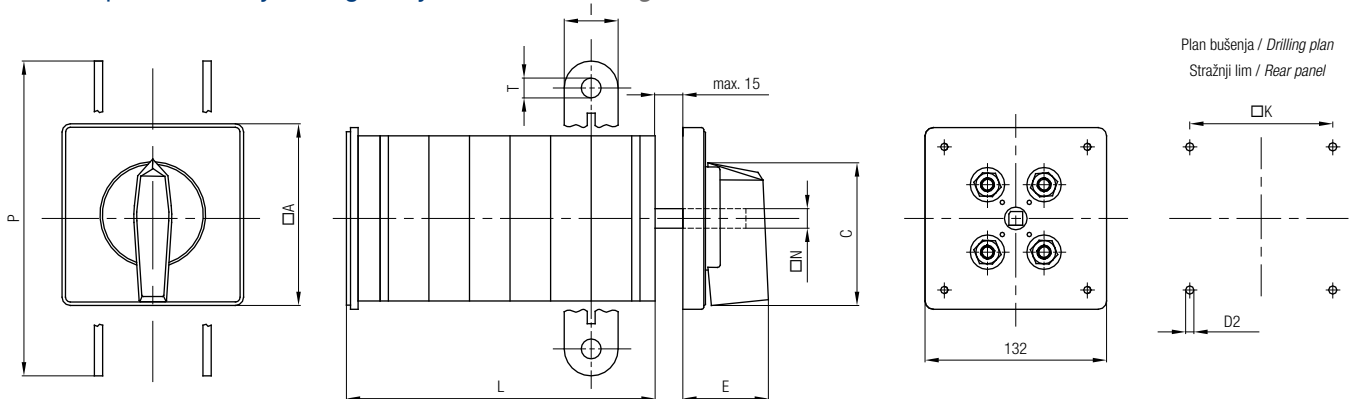
U - Ugradna sklopka Front mounting



Tip/Type	Oznaka / Marking											Broj elemenata L Number of elements											
	□A	C	ØD	ØD1	ØD2	E	I	□K	□N	P	ØT	1	2	3	4	5	6	7	8	9	10	11	12
4G200	132	104	120	16	5,3	56	20	104	10	140	10,5	77	107	136	166	196	226	284	314	343	373	402	432
G315	132	104	120	16	5,3	56	20	104	10	145	10,5	77	107	136	166	196	226	284	314	343	373	402	432
4G400	132	104	120	16	5,3	56	45	104	10	170	13	-	107	-	166	-	226	-	314	-	373	-	432
G630	132	104	120	16	5,3	56	45	104	10	170	13	-	107	-	166	-	226	-	314	-	373	-	432
G900	132	104	120	16	5,3	56	74	104	10	170	17,5	-	-	136	-	226	-	-	-	343	-	-	432
G1200	132	104	120	16	5,3	56	50	104	10	260	17,5	-	107	-	166	-	226	-	314	-	373	-	432
G1600	132	104	120	16	5,3	56	80	104	10	320	4x13	-	-	136	-	226	-	-	-	343	-	-	432
G2000	132	104	120	16	5,3	56	110	104	10	320	4x13	-	-	-	166	-	-	-	314	-	-	-	432

Kod sklopki s više od 6 elemenata ugrađujemo dva razdjelna uređaja (vidi mjernu skicu na dnu stranice)
Switches with more than 6 elements have two distribution devices (see dimensional drawing at the bottom of this page)

O - Sklopka za odvojenu ugradnju Rear mounting

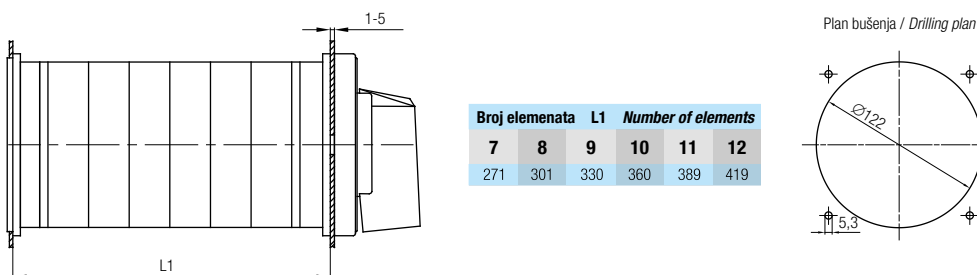


*Plan bušenja prednje ploče kao kod ugradne sklopke (U) / Drilling plan of front panel as at front mounting switch (U)

Tip/Type	Oznaka / Marking											Broj elemenata L Number of elements											
	□A	C	ØD2	E	I	□K	□N	P	ØT	1	2	3	4	5	6	7	8	9	10	11	12		
4G200	132	104	5,3	56	20	104	10	140	10,5	77	107	136	166	196	226	284	314	343	373	402	432		
G315	132	104	5,3	56	20	104	10	145	10,5	77	107	136	166	196	226	284	314	343	373	402	432		
4G400	132	104	5,3	56	45	104	10	170	13	-	107	-	166	-	226	-	314	-	373	-	432		
G630	132	104	5,3	56	45	104	10	170	13	-	107	-	166	-	226	-	314	-	373	-	432		
G900	132	104	5,3	56	74	104	10	170	17,5	-	-	136	-	226	-	170	-	-	343	-	-	432	
G1200	132	104	5,3	56	50	104	10	260	17,5	-	107	-	166	-	226	-	314	-	373	-	432		
G1600	132	104	5,3	56	80	104	10	320	4 x 13	-	-	136	-	226	-	-	-	343	-	-	-	432	
G2000	132	104	5,3	56	110	104	10	320	4 x 13	-	-	-	166	-	-	-	314	-	-	-	-	432	

Kod sklopki s više od 6 elemenata ugrađujemo dva razdjelna uređaja (vidi mjernu skicu na dnu stranice)
Switches with more than 6 elements have two distribution devices (see dimensional drawing at the bottom of this page)

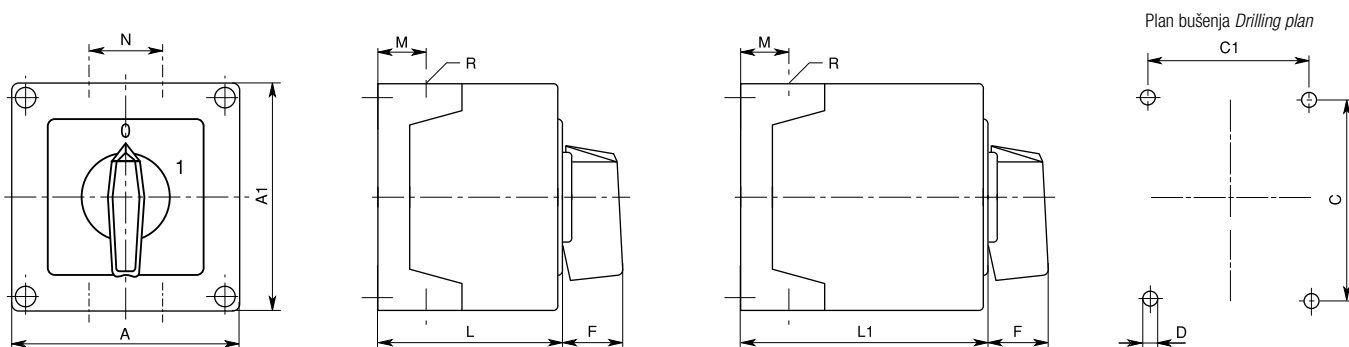
Ugradnja sklopki s više od 6 elemenata Mounting of the switches with 6 or more elements



Broj elemenata	L1	Number of elements
7	301	330
8	301	360
9	330	389
10	360	419
11	389	
12	419	

MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

P - SKLOPKA U PLASTIČNOM KUĆIŠTU SWITCH IN PLASTIC ENCLOSURE



Seriya GN Series GN

Tip/Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	F	M	N	L	L1	Zaštita Protection	Uvodnice Conduit entries	
		L	L1												R(Pg)	R(M...x1,5)
GN12 GN20 GN25	75 x 75	1-2 1	3-4 2-3	75	75	50	64	4,5	19	14	28	57,5	79,8	IP65	4 x Pg13,5	ili / or 4 x M20
GN12 GN20 GN25 GN32 GN40	90 x 90	1-3 1-2 1-2 1	4-6 3-4 3-4 2-3	90	90	79	63	4,5	25	19	30	71,3	98,3	IP65	4 x Pg16	ili / or 4 x M20
GN12 GN20 GN25 GN32 GN40 GN63	110 x 110	1-4 1-4 1-3 1-3 1-2 1-2	5-8 5-8 4-5 4-5 3-5 3-4	110	110	98,4	83	4,5	32	21	39,5	85,5	119,5	IP65	4 x Pg21	ili / or 4 x M25
GN32 GN40 GN63 GN125	125 x 175	1-3 1-2 1-2 1	4-5 3-4 3-4 2	125	175	146	112	5,5	32	21	68	84,3	118,3	IP65	4 x Pg21 + 2 x Pg11	ili / or 4 x M25 + 2 x M16
GN32 GN40 GN63 GN125	180 x 254	1-5 1-4 1-3 1-2	6-8 5-7 4-6 3-4	180	254	120	190	5,5	32	35	76	121	175	IP65	4 x Pg29 + 2 x Pg11	ili / or 4 x M32 + 2 x M16

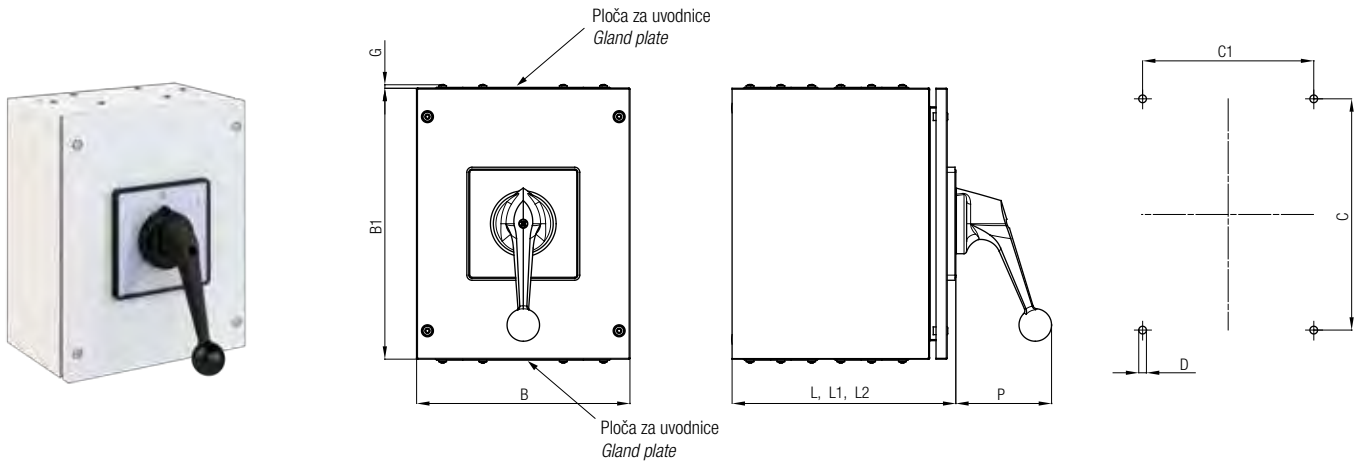
Seriya GX Series GX

Tip/Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C1	C1	D	F	M	N	L	L1	Zaštita Protection	Uvodnice Conduit entries	
		L	L1												R(Pg)	R(M...x1,5)
GX16 GX20	90 x 90	1-2	3-5	90	90	79	79	4,5	25	19	30	71,3	98,3	IP65	4 x Pg16	ili / or 4 x M20
GX16 GX20 GX32 GX40	110 x 110	1-3 1-2	4-7 3-4	110	110	98,4	83	4,5	32	21	39,5	85,5	119,5	IP65	4 x Pg21	ili / or 4 x M25



MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

L - Sklopka u limenom kućištu *Switch in steel enclosure*



Serijska G/4G Series G/4G

Tip/Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements			L	L1	L2	B	B1	C	C1	D	G	P	Zaštita Protection
		L	L1	L2											
4G200 G315	250 x 316	1 - 3	-	4 - 6	162	-	252	250	316	270	200	9	4,5	98	IP54
4G400 G630 G900	316 x 500	2	4	6	162	192	252	316	500	420	240	9	4,5	98	IP54

Napomena: Na poseban zahtjev limena kućišta mogu biti izrađena i od nehrđajućeg čelika. / Note: On request metal enclosure can be made from stainless steel.

POTVRDE APPROVALS

	USA	USA	Kanada Canada	Nizozemska Netherland	Rusija Russia	Lloyd's Register of Shipping	Bureau Veritas	Hrvatski registar brodova Croatian Register of Shipping
GN12		■	■	■	■	■	■	■
GN20		■	■	■	■	■	■	■
GN25		■	■	■	■	■	■	■
GN32		■	■	■	■	■	■	■
GN40		■	■	■	■	■	■	■
GN63		■	■	■	■	■	■	■
GN125		■	■	■	■	■	■	■
GX16		■		■	■			
GX20		■		■	■			
GX32		■		■	■			
GX40		■		■	■			
GF10		■	■	■	■	■	■	■
GF20		■	■	■	■	■	■	■
4G200	■				■			■
G315	■							
4G400								■

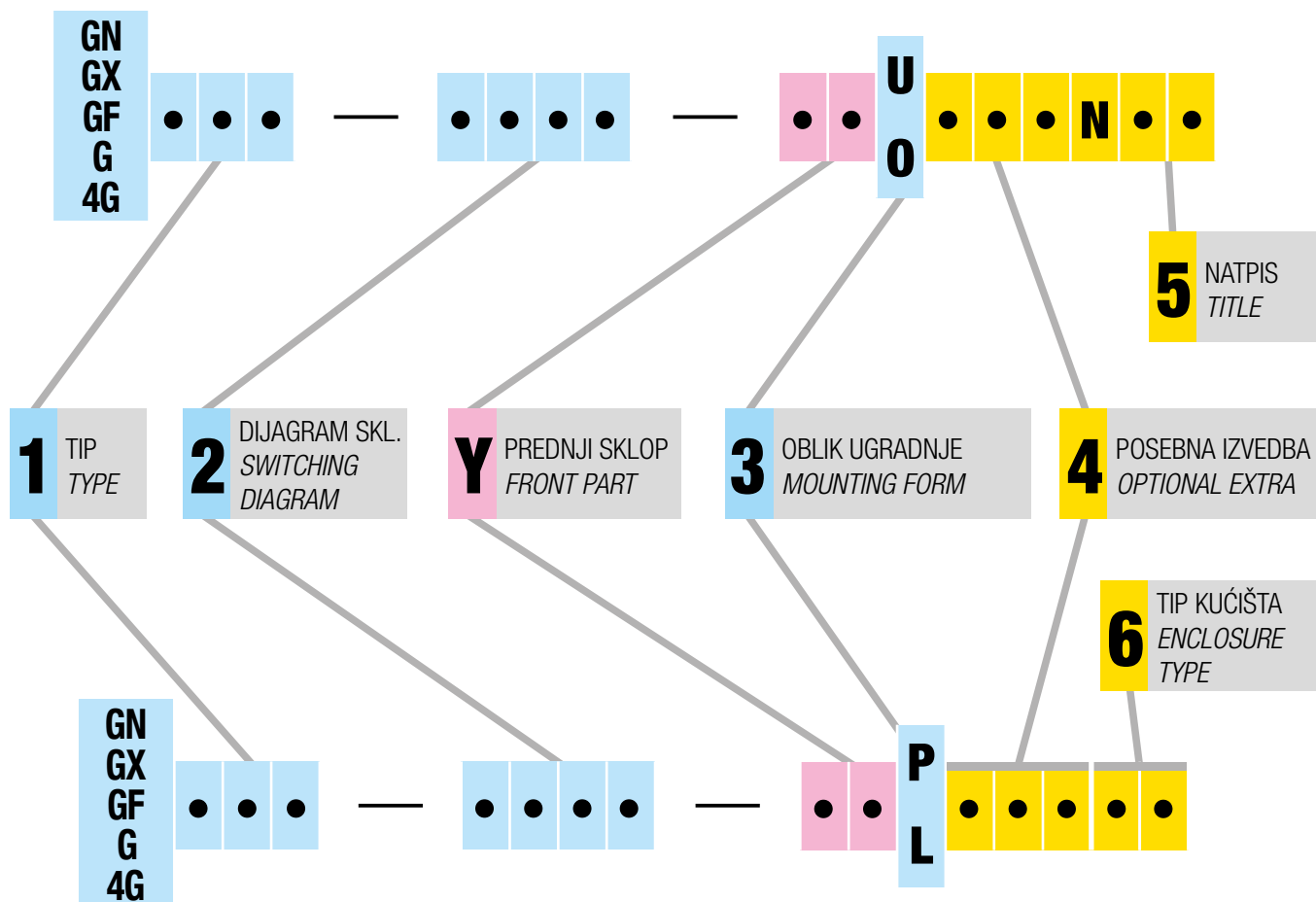
NARUDŽBENI KOD ORDERING CODE

Prilikom naručivanja sklopke potrebno je definirati:

- za **standardnu izvedbu** sklopke 3 tipa podataka **1 2 3**
- za sklopke s **posebnom izvedbom** maksimalno 5 tipova podataka **1 2 3 4 5** ili **1 2 3 4 6**
- za sklopku sa **specijalnim zahtjevima** maksimalno 6 tipova podataka **1 2 3 4 5 Y** ili **1 2 3 4 6 Y**

When ordering please define:

- for **standard** switch three data types **1 2 3**
- for switch with an **optional extra** max. 5 data types **1 2 3 4 5** or **1 2 3 4 6**
- for switch with **special requests** max. 6 data types **1 2 3 4 5 Y** or **1 2 3 4 6 Y**



OPIS

DESCRIPTION

1	Tip sklopke. Odabire se prema tehničkim zahtjevima (vidi stranice 4 - 10) i ugradbenoj veličini (vidi stranicu 3)	Switch type. To be chosen in accordance with the technical requests (see pages 4 - 10) and mounting size (see page 3)
2	Dijagram sklapanja. Odabira se prema programu sklapanja (vidi stranice 67 - 109)	Switching diagram. To be chosen in accordance with the switching program (see pages 67 - 109)
Y	Prednji sklop. Upisuje se samo ako se traži nestandardna kombinacija boja i oblika prednjeg sklopa (vidi stranicu 15)	Front part. To be marked only when non-standard front part colour and form combination is required (see page 15)
3	Standardni oblici ugradnje (vidi stranicu 2)	Standard mounting forms (see page 2)
4	Upisuje se ako se traži posebna izvedba (vidi stranice 18 - 59)	To be marked when an optional extra is required (see pages 18 - 59)
5	"N" se upisuje ako se traži prednja ploča s natpisom	"N" is to be written when the front plate with a title is required
6	Upisuje se ako se traži nestandardna izvedba plastičnog kućišta (vidi stranicu 16)	To be marked when a non-standard plastic enclosure version is required (see page 16)

Y - PREDNJI SKLOP *FRONT PART*

Tablice prikazuju moguće kombinacije boja prednjeg sklopa i pripadajuće kodne oznake. Prva linija odnosi se na **standardnu** kombinaciju za koju nije potrebno upisivati kod.

The tables show possible front part colour combinations and corresponding codes to be marked. The first line refers to the **standard** combination for which no code is to be marked.

1. OBLIK UGRADNJE:

Ugradna sklopka (U) ili sklopka za odvojenu ugradnju (O).

1. MOUNTING FORM:

Front mounting (U) or rear mounting (O).

				KOD / CODE			
Ručica <i>Handle</i>	Prednja ploča <i>Front plate</i>	Podloga <i>Escutch. plate</i>	Tekst <i>Text</i>	Y	Prednji sklop <i>Front part</i>	3	Oblik ugradnje <i>Mounting form</i>
crna <i>black</i>	crna <i>black</i>	bijela <i>white</i>	crna <i>black</i>				
crna <i>black</i>	crna <i>black</i>	srebrna <i>silver</i>	crna <i>black</i>		10		U ili / or O
crna <i>black</i>	crna <i>black</i>	crna <i>black</i>	bijela <i>white</i>		20		
siva <i>grey</i>	siva <i>grey</i>	crna <i>black</i>	bijela <i>white</i>		30		
siva <i>grey</i>	siva <i>grey</i>	bijela <i>white</i>	crna <i>black</i>		40		

PRIMJER: Za sklopku GN20, shema 100, standardna kombinacija boja, ugradna sklopka, narudžbena oznaka glasi:

EXAMPLE: For switch GN20, switching diagram 100, standard colour combination, front mounting, the ordering code is:

GN20 - 100 - U

Ista sklopka, ali sa sivom ručicom, sivom prednjom pločom, bijelom podlogom i crnim tekstom ima narudžbenu oznaku:

The same switch but with grey handle, grey front plate, white escutcheon plate, black text, has the ordering code:

GN20 - 100 - 40 U

NAPOMENA: za specijalne izvedbe 06, 06D, 41/42, 41D, 48/48D, 56, 71/72, 76/77, 85 i 87 kombinacije boja su opisane u poglavlju POSEBNE IZVEDBE

REMARK: for optional extras 06, 06D, 41/42, 41D, 48/48D, 56, 71/72, 76/77, 85 and 87 combination of colours are described in the head OPTIONAL EXTRAS

2. OBLIK UGRADNJE:

Sklopka u plastičnom kućištu (P)

Sklopka u limenom kućištu (L)

2. MOUNTING FORM:

Switch in plastic enclosure (P)

Switch in steel enclosure (L)

				KOD / CODE			
Kućište <i>Enclosure</i>	Ručica <i>Handle</i>	Podloga <i>Escutch. plate</i>	Tekst <i>Text</i>	Y	Prednji sklop <i>Front part</i>	3	Oblik ugradnje <i>Mounting form</i>
siva <i>grey</i>	crna <i>black</i>	bijela <i>white</i>	crna <i>black</i>				
siva <i>grey</i>	crna <i>black</i>	srebrna <i>silver</i>	crna <i>black</i>		10		P ili / or L
siva <i>grey</i>	siva <i>grey</i>	crna <i>black</i>	bijela <i>white</i>		20		
siva <i>grey</i>	siva <i>grey</i>	bijela <i>white</i>	crna <i>black</i>		30		

PRIMJER: Za sklopku GN20, shema 100, standardna kombinacija boja, u plastičnom kućištu, narudžbena oznaka glasi:

EXAMPLE: For switch GN20, switching diagram 100, standard colour combination, in plastic enclosure, the ordering code is:

GN20 - 100 - P

Ista sklopka, ali sa sivom ručicom, bijelom podlogom i crnim tekstom ima narudžbenu oznaku:

The same switch but with grey handle, white escutcheon plate, black text, has the ordering code:

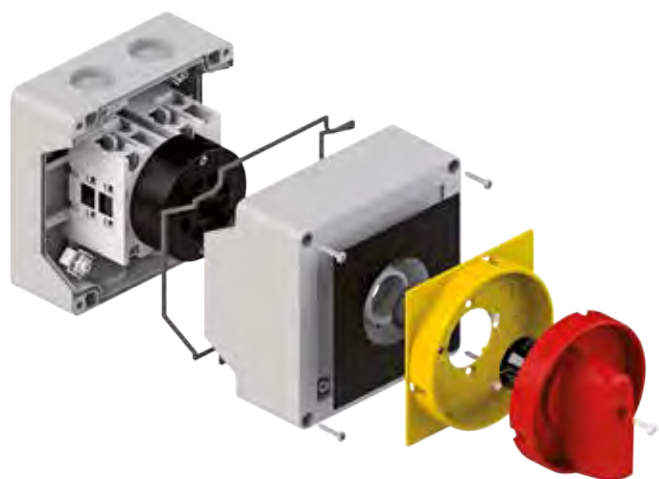
GN20 - 100 - 30 P

NAPOMENA: za specijalne izvedbe 06, 23, 25, 56, 73 i 75 kombinacije boja su opisane u poglavlju POSEBNE IZVEDBE

REMARK: for optional extras 06, 23, 25, 56, 73 and 75 combination of colours are described in the head OPTIONAL EXTRAS

IZBOR KUĆIŠTA ENCLOSURE SELECTION

	Veličina kućišta Enclosure size	Tip kućišta Enclosure type	Zaštita Protection	Uvodnice Conduit entries	6 KOD CODE	Tip sklopke Switch type
PLASTIČNO KUĆIŠTE / PLASTIC ENCLOSURE	75 x 75	NEMA Type 4X	IP65	4 x Pg13,5	B1	GN12/GN20/GN25
			IP65	4 x M20x1,5		GN12/GN20/GN25
	90 x 90	NEMA Type 4X	IP65	4 x Pg16	C1	GN32
			IP65	4 x Pg16		GX16/GX20
			IP65	4 x M20 x 1,5		GN12/GN20/GN25/GN40
			IP65	4 x M20 x 1,5		GX16/GX20
	110 x 110	NEMA Type 4X	IP65	4 x Pg21	E1	GN12/GN20/GN25/GN32/GN40
			IP65	4 x Pg21		GX16/GX20
			IP65	4 x M25 x 1,5		GN12/GN20/GN25/GN32/GN40/GN63
			IP65	4 x M25 x 1,5		GX16/GX20/GX32/GX40
	125 x 175	NEMA Type 4X	IP65	4xPg21+2xPg11	D1	GN63
			IP65	4xPg21+2xPg11		GN32/GN40/GN125
			IP65	4xM25x1,5+2xM16x1,5		GN32/GN40/GN63/GN125
	180 x 254	-	IP65	4xPg29+2xPg11	F1	GN125
			IP65	4xM32x1,5+2xM16x1,5		GN32/GN40/GN63/GN125
IP65			4xPg29+2xPg11	GN32/GN40/GN63		
LIMENO KUĆIŠTE / STEEL ENCLOSURE	250 x 316	UL Type 3R	IP54	-		4G200/G315
	316 x 500	UL Type 3R	IP54	-		4G400/G630/G900



PRIMJER: Za sklopku GX20, shema 100, standardna kombinacija boja, plastično kućište 90 x 90, sa standardnom zaštitom i ulaznicama, narudžbena oznaka glasi:

EXAMPLE: For the switch GX20 switching diagram 100, standard colour combination, plastic enclosure 90 x 90, with standard protection and conduit entries, the ordering code is:

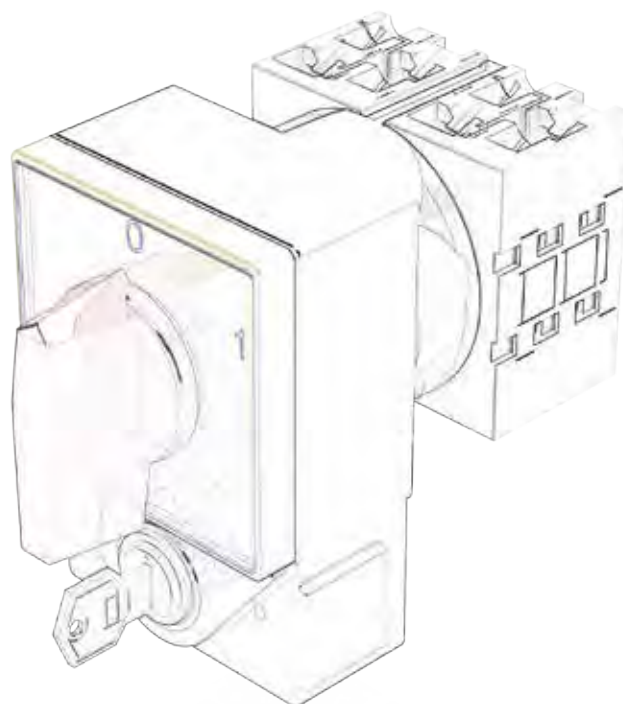
GX20 - 100 - P

Ista sklopka u istom kućištu ali sa ulaznicama 4 x M20 x 1,5 ima narudžbenu oznaku:

The same switch in the same enclosure but with conduit entries 4 x M20 x 1,5 has the ordering code:

GX20 - 100 - PC2

Posebne izvedbe *Optional extras* **GN, GX GF, G/4G**



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SKLOPKA ZA NUŽNO ISKLAPANJE *EMERGENCY OFF SWITCH*

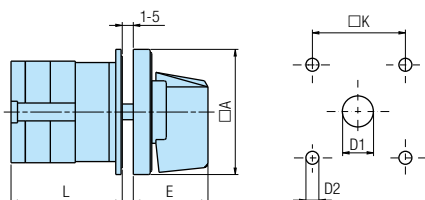


24

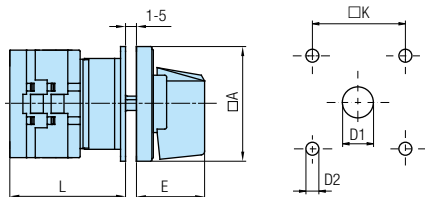
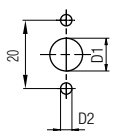
Standardna sklopka sa žutom prednjom pločom, žutom podlogom i crvenom ručicom.

Standard switch with yellow front plate, yellow escutcheon plate and red handle.

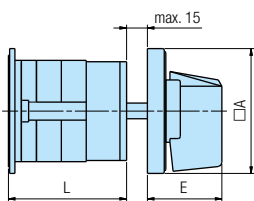
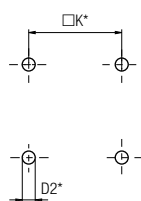
Plan bušenja / Drilling plan
Prednji lim / Front panel



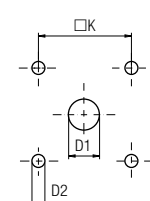
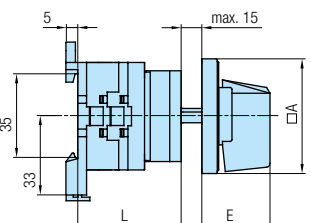
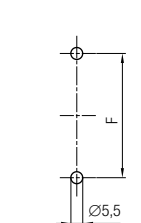
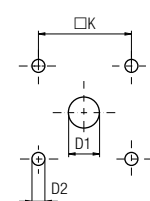
GF10
GF10H



Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Seriya / Series GN - U

Tip Type	Oznaka / Marking					L					
	□A	D1	D2	E	□K	1	2	3...12			
GN 12	48	12	5	26,5	36	33,1	42,8	52,5	139,8		
GN 12H	65	12	5	34,5	48	33,6	43,3	53	140,3		
GN 20	48	12	5	26,5	36	33,1	42,8	52,5	139,8		
GN 20H	65	12	5	34,5	48	33,6	43,3	53	140,3		
GN 25	48	12	5	26,5	36	37,5	51,1	64,7	187,1		
GN 25H	65	12	5	34,5	48	38	51,6	65,2	187,6		
GN 32	65	14	5	34,5	48	40,9	54,5	68,1	190,5		
GN 32H	90	14	6	41,5	68	41,6	55,2	68,8	191,2		
GN 40	65	14	5	34,5	48	43,5	58,6	73,7	209,6		
GN 40H	90	14	6	41,5	68	44,2	59,3	74,4	210,3		
GN 63	65	14	5	34,5	48	47,3	65,4	83,5	246,4		
GN 63H	90	14	6	41,5	68	48	66,1	84,2	247,1		
GN 125	90	16	6	41,5	68	67,3	96,4	125,5	387,4		

Seriya / Series G/4G - U

Tip Type	Oznaka / Marking					L							
	□A	D1	D2	E	□K	1	2	3	4	5	6	7	8
4G 200	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
G 315	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
4G 400	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 630	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 900	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G 1200	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 1600	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G 2000	132	16	5,3	56,5	104	-	-	-	166	-	-	-	314

Seriya / Series GF - U

Tip Type	Oznaka / Marking					L						
	□A	D1	D2	E	□K	1	2	3...12				
GF 10	30	9	3,2	18,5	-	40	42,8	64	-	-	-	-
GF 10H	48	9	3,2	26,5	36	40	43,3	64	-	-	-	-
GF 20	48	12	5	26,5	36	4,1	42,8	68	189,5	-	-	-
GF 20H	48	9	3,2	26,5	36	41,5	43,3	68,5	190	-	-	-

GF10 / GF10H max. 8 elm.

Seriya / Series GX - U

Tip Type	Oznaka / Marking					L					
	□A	D1	D2	E	□K	1	2	3...12			
GX 16	48	12	5	26,5	36	40	48,5	57	133,5		
GX 16H	65	12	5	34,5	48	40,5	49	57,5	134		
GX 20	48	12	5	26,5	36	40	48,5	57	133,5		
GX 20H	65	12	5	34,5	48	40,5	49	57,5	134		
GX 32	65	14	5	34,5	48	48	60	72	180		
GX 32H	90	14	6	41,5	68	50	62	74	182		
GX 40	65	14	5	34,5	48	48	60	72	180		
GX 40H	90	14	6	41,5	68	50	62	74	182		

Seriya / Series GN - O

Tip Type	Oznaka / Marking					L					
	□A	D1	D2	E	□K	1	2	3...12			
GN 12	48	12	5	26,5	36	33,1	42,8	52,5	139,8		
GN 12H	65	12	5	34,5	48	33,6	43,3	53	140,3		
GN 20	48	12	5	26,5	36	33,1	42,8	52,5	139,8		
GN 20H	65	12	5	34,5	48	33,6	43,3	53	140,3		
GN 25	48	12	5	26,5	36	37,5	51,1	64,7	187,1		
GN 25H	65	12	5	34,5	48	38	51,6	65,2	187,6		
GN 32	65	14	5	34,5	48	40,9	54,5	68,1	190,5		
GN 32H	90	14	6	41,5	68	41,6	55,2	68,8	191,2		
GN 40	65	14	5	34,5	48	43,5	58,6	73,7	209,6		
GN 40H	90	14	6	41,5	68	44,2	59,3	74,4	210,3		
GN 63*	65	14	5	34,5	48	47,3	65,4	83,5	246,4		
GN 63H	90	14	6	41,5	68	48	66,1	84,2	247,1		
GN 125	90	16	6	41,5	68	67,3	96,4	125,5	394,9		

* za / for GN63 D2*=6 □K*=68

Seriya / Series G/4G - O

Tip Type	Oznaka / Marking					L							
	□A	D1	D2	E	□K	1	2	3	4	5	6	7	8
4G 200	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
G 315	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
4G 400	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 630	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 900	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G 1200	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G 1600	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G 2000	132	16	5,3	56,5	104	-	-	-	166	-	-	-	314

Seriya / Series GF - O

Tip Type	Oznaka / Marking					L					
	□A	D1	D2	E	□K	1	2	3...12			
GF 20	48	12	5	26,5	36	46	59,5	73	194,5		
GF 20H	65	12	5	34,5	48	47	60,5	74	195,5		

Seriya / Series GX - O

Tip Type	Oznaka / Marking					L						
	□A	D1	D2	E	F	□K	1	2	3...12			
GX 16	48	12	5	26,5	52	36	37	45,5	54	130,5		
GX 16H	65	12	5	34,5	52	48	37	45,5	54	130,5		
GX 20	48	12	5	26,5	52	36	37	45,5	54	130,5		
GX 20H	65	12	5	34,5	52	48	37	45,5	54	130,5		
GX 32	65	14	5	34,5	68	48	48	60	72	180		
GX 32H	90	14	6	41,5	68	68	48	60	72	180		
GX 40	65	14	5	34,5	68	48	48	60	72	180		
GX 40H	90	14	6	41,5	68	68	48	60	72	180		

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

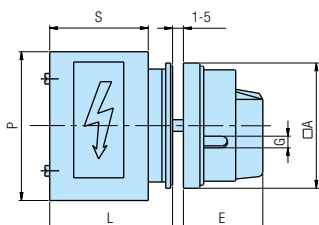
GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



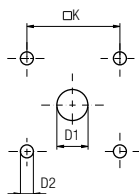
23
25

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



Plan bušenja / Drilling plan
Prednji lim / Front panel

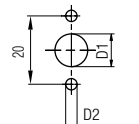


Serijska / Series GN - U

Tip Type	Oznaka / Marking								
	$\square A$	D1	D2	E	G	$\square K$	S	P	L
GN 12	48	12	5	34,2	5	36	43	64	51,3
GN 12H	65	12	5	38	6	48	43	64	51,8
GN 20	48	12	5	34,2	5	36	43	64	51,3
GN 20H	65	12	5	38	6	48	43	64	51,8
GN 25	48	12	5	34,2	5	36	51	68	59,6
GN 25H	65	12	5	38	6	48	51	68	60,1
GN 32	65	14	5	38	6	48	55	77	64,9
GN 32H	90	14	6	49	7	68	55	77	65,6
GN 40	65	14	5	38	6	48	55	77	68,7
GN 40H	90	14	6	49	7	68	55	77	69,4



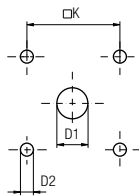
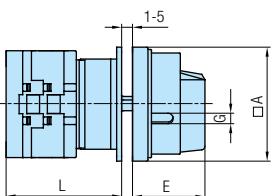
GF10H



Serijska / Series GF - U

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GF 10H	48	12	5	34,2	5	-	40	52	64	-
GF 20	48	12	5	34,2	5	36	41	54,5	68	189,5
GF 20H	65	12	5	38	6	48	41,5	55	68,5	190

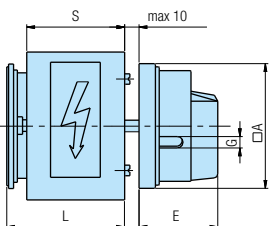
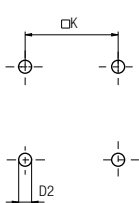
GF10H max. 8 elm.



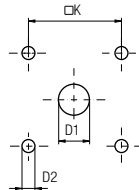
Serijska / Series GX - U

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GX 16	48	12	5	34,2	5	36	40	48,5	57	133,5
GX 16H	65	12	5	38	6	48	40,5	49	57,5	134
GX 20	48	12	5	34,2	5	36	40	48,5	57	133,5
GX 20H	65	12	5	38	6	48	40,5	49	57,5	134
GX 32	65	14	5	38	6	48	48	60	72	180
GX 32H	90	14	6	49	7	68	50	62	74	182
GX 40	65	14	5	38	6	48	48	60	72	180
GX 40H	90	14	6	49	7	68	50	62	74	182

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - O

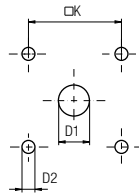
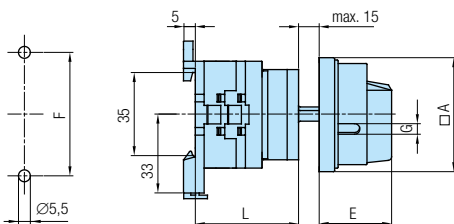
Tip Type	Oznaka / Marking								
	$\square A$	D1	D2	E	G	$\square K$	S	P	L
GN 12	48	12	5	34,2	5	36	43	64	51,3
GN 12H	65	12	5	38	6	48	43	64	51,8
GN 20	48	12	5	34,2	5	36	43	64	51,3
GN 20H	65	12	5	38	6	48	43	64	51,8
GN 25	48	12	5	34,2	5	36	51	68	59,6
GN 25H	65	12	5	38	6	48	51	68	60,1
GN 32	65	14	5	38	6	48	55	77	64,9
GN 32H	90	14	6	49	7	68	55	77	65,6
GN 40	65	14	5	38	6	48	55	77	68,7
GN 40H	90	14	6	49	7	68	55	77	69,4

Serijska / Series GF - O

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GF 20	48	12	5	34,2	5	36	46	60,5	74	195,5
GF 20H	65	12	5	38	6	48	47	55	68,5	190

Serijska / Series GX - O

Tip Type	Oznaka / Marking						L				
	$\square A$	D1	D2	E	F	G	$\square K$	1	2	3...12	
GX 16	48	12	5	34,2	52	5	36	37	45,5	54	130,5
GX 16H	65	12	5	38	52	6	48	37	45,5	54	130,5
GX 20	48	12	5	34,2	52	5	36	37	45,5	54	130,5
GX 20H	65	12	5	38	52	6	48	37	45,5	54	130,5
GX 32	65	14	5	38	68	6	48	48	60	72	180
GX 32H	90	14	6	49	68	7	68	48	60	72	180
GX 40	65	14	5	38	68	6	48	48	60	72	180
GX 40H	90	14	6	49	68	7	68	48	60	72	180



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



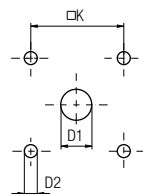
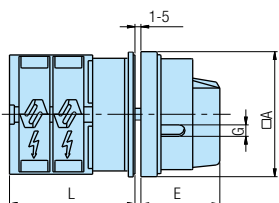
63
65

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

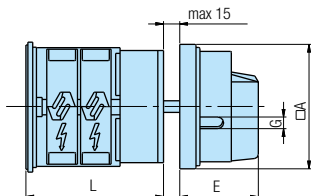
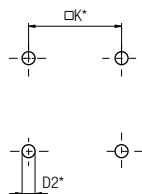
Tip Type	Oznaka / Marking						L				
	□A	D1	D2	E	G	□K	1	2	3...12		
GN 12	48	12	5	34,2	5	36	33,1	42,8	52,5	139,8	
GN 12H	65	12	5	38	6	48	33,6	43,3	53	140,3	
GN 20	48	12	5	34,2	5	36	33,1	42,8	52,5	139,8	
GN 20H	65	12	5	38	6	48	33,6	43,3	53	140,3	
GN 25	48	12	5	34,2	5	36	37,5	51,1	64,7	187,1	
GN 25H	65	12	5	38	6	48	38	51,6	65,2	187,6	
GN 32	65	14	5	38	6	48	43,5	58,6	73,7	209,6	
GN 32H	90	14	6	49	7	68	44,2	59,3	74,4	210,3	
GN 40	65	14	5	38	6	48	43,5	58,6	73,7	209,6	
GN 40H	90	14	6	49	7	68	44,2	59,3	74,4	210,3	
GN 63	65	14	5	38	6	48	47,3	65,4	83,5	246,4	
GN63H	90	14	6	49	7	68	48	66,1	84,2	247,1	
GN 125	90	16	6	49	7	68	67,3	96,4	125,5	394,9	

Serijska / Series GN - O

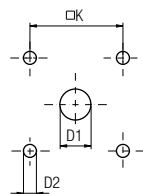
Tip Type	Oznaka / Marking						L				
	□A	D1	D2	E	G	□K	1	2	3...12		
GN 12	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8	
GN 12H	65	12	5	38	6	48	38,6	48,3	58	145,3	
GN 20	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8	
GN 20H	65	12	5	38	6	48	38,6	48,3	58	145,3	
GN 25	48	12	5	34,2	5	36	42,5	56,1	69,7	192,1	
GN 25H	65	12	5	38	6	48	43	56,6	70,2	192,6	
GN 40	65	14	5	38	6	48	48,5	63,6	78,7	214,6	
GN 40H	90	14	6	49	7	68	49,2	64,3	79,4	215,3	
GN 63*	65	14	5	38	6	48	54,3	72,4	90,5	253,4	
GN 63H	90	14	6	49	7	68	55	73,1	91,2	254,1	
GN 125	90	16	6	49	7	68	74,8	103,9	133	394,9	

* za / for GN63 D2*=6 □K*=68

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



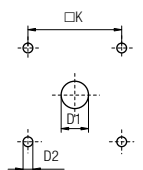
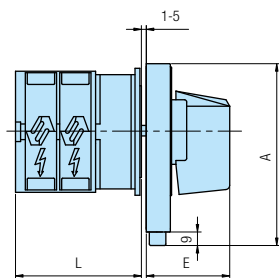
63D
65D

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



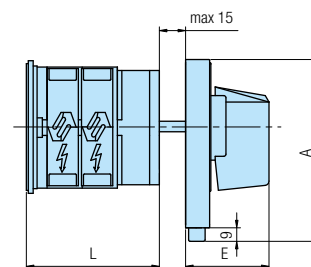
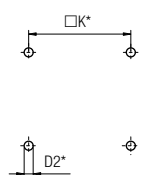
Plan bušenja / Drilling plan
Prednji lim / Front panel



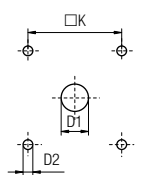
Serijska / Series GN - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	E	□K	1	2	3...12			
GN 32H	90x112	14	5	48	48	41,6	55,2	68,8	191,2		
GN 40H	90x112	14	5	48	48	44,2	59,3	74,4	210,3		
GN 63H	90x112	14	5	48	48	48	66,1	84,2	247,1		
GN 125	90x112	16	6	48	68	67,3	96,4	125,5	394,9		

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - O

Tip Type	Oznaka / Marking						L				
	A	D1	D2	E	□K	1	2	3...12			
GN 32H	90x112	14	5	48	48	46,6	60,2	73,8	196,2		
GN 40H	90x112	14	5	48	48	49,2	64,3	79,4	215,3		
GN 63H	90x112	14	5	48	48	55	73,1	91,2	254,1		
GN 125	90x112	16	6	48	68	74,8	103,9	133	394,9		

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

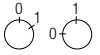
GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



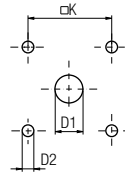
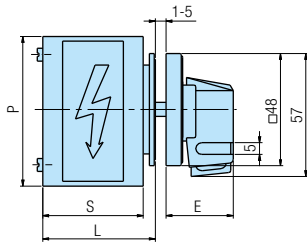
73
75

Zaključavanje (1-3 lokota) samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

Locking (1-3 only) in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*

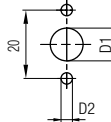


Seriya / *Series GN - U*

Tip Type	Oznaka / <i>Marking</i>						L
	D1	D2	E	□K	S	P	
GN 12	12	5	34,5	36	43	64	51,3
GN 20	12	5	34,5	36	43	64	51,3
GN 25	12	5	34,5	36	51	68	59,6

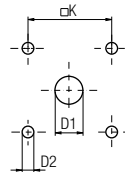
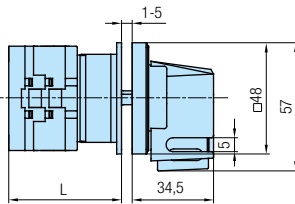


GF10H



Seriya / *Series GF - U*

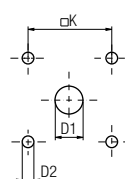
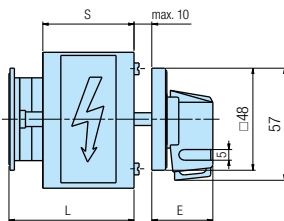
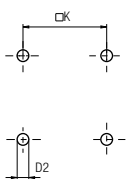
Tip Type	Oznaka / <i>Marking</i>				L		
	D1	D2	□K	1	2	3...12	-
GF 10H	12	5	-	40	52	64	-
GF 20	12	5	36	41	54,5	68	189,5



Seriya / *Series GX - U*

Tip Type	Oznaka / <i>Marking</i>				L		
	D1	D2	□K	1	2	3...12	-
GX 16	12	5	36	40	48,5	57	133,5
GX 20	12	5	36	40	48,5	57	133,5

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*

Seriya / *Series GN - O*

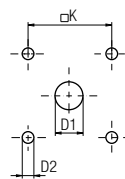
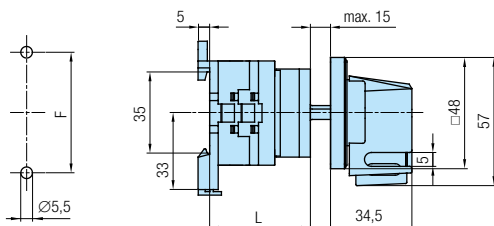
Tip Type	Oznaka / <i>Marking</i>						L
	D1	D2	E	□K	S	P	
GN 12	12	5	34,5	36	43	64	51,3
GN 20	12	5	34,5	36	43	64	51,3
GN 25	12	5	34,5	36	51	68	59,6

Seriya / *Series GF - O*

Tip Type	Oznaka / <i>Marking</i>				L		
	D1	D2	□K	1	2	3...12	-
GF 20	12	5	36	46	59,5	73	194,5

Seriya / *Series GX - O*

Tip Type	Oznaka / <i>Marking</i>				L			
	D1	D2	F	□K	1	2	3...12	
GX 16	12	5	52	36	37	45,5	54	130,5
GX 20	12	5	52	36	37	45,5	54	130,5



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

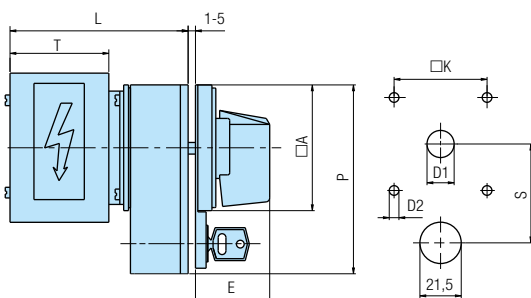


21

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

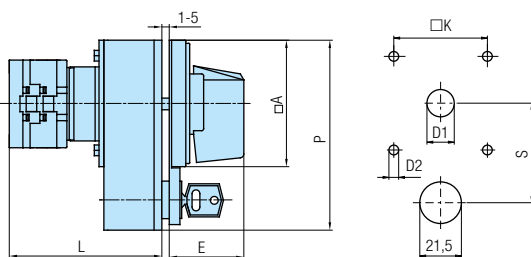
22

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



Serija / Series GN - U

Tip Type	Oznaka / Marking								L
	A	D1	D2	E	K	P	S	T	
GN 12H	65	12	5	36	48	65x98	48	43	81,8
GN 20H	65	12	5	36	48	65x98	48	43	81,8
GN 25H	65	12	5	36	48	65x98	48	51	90,1
GN 32	65	14	5	36	48	65x98	48	55	94,8
GN 32B	90	14	6	41,5	68	90x122	60	55	103,4
GN 40	65	14	5	36	48	65x98	48	55	99
GN 40B	90	14	6	41,5	68	90x122	60	55	107,5



Serija / Series GF - U

Tip Type	Oznaka / Marking							L
	A	D1	D2	E	K	P	S	
GF 20H	65	12	5	36	48	65x98	48	85

Serija / Series GX - U

Tip Type	Oznaka / Marking								L
	A	D1	D2	E	K	P	S	T	
GX 16H	65	12	5	36	48	65x98	48	70,5	
GX 20H	65	12	5	36	48	65x98	48	70,5	
GX 32	65	14	5	36	48	65x98	48	90	
GX 40	65	14	5	36	48	65x98	48	90	

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

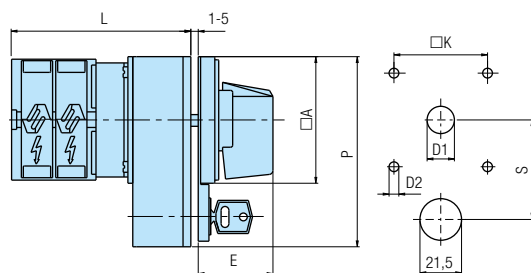


61

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

62

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



Serija / Series GN - U

Tip Type	Oznaka / Marking								L			
	A	D1	D2	E	K	P	S	1	2	3...12	12	
GN 12H	65	12	5	36	48	65x98	48	63,6	73,3	83	170,3	
GN 20H	65	12	5	36	48	65x98	48	63,6	73,3	83	170,3	
GN 25H	65	12	5	36	48	65x98	48	68	81,6	95,2	217,6	
GN 40	65	14	5	36	48	65x98	48	73,5	88,6	103,7	239,6	
GN 40B	90	16	6	41,5	68	90x122	60	82,4	97,5	112,6	248,5	
GN 63	65	14	5	36	48	65x98	48	77,3	95,4	113,5	276,4	
GN 63B	90	16	6	41,5	68	90x122	60	86,2	104,3	122,4	256,8	
GN 125	90	16	6	41,5	68	90x122	60	95,8	124,9	154	423,4	

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



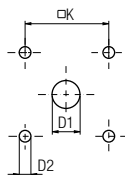
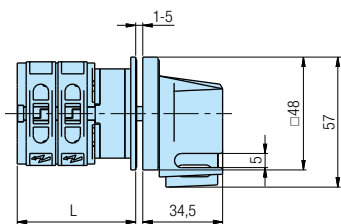
93
95

Zaključavanje samo u "0". Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom. Kut zakreta 60° i 90°.

Locking only in "0". Protection against an accidental contact with the supplying terminals under voltage. Switching angle 60° and 90°.



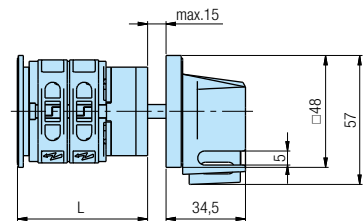
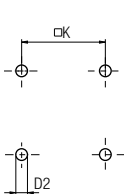
Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



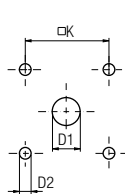
Serijska / *Series GN - U*

Tip Type	Oznaka / <i>Marking</i>			L			
	D1	D2	OK	1	2	3...12	
GN 12	12	5	36	33,1	42,8	52,5	139,8
GN 20	12	5	36	33,1	42,8	52,5	139,8
GN 25	12	5	36	37,5	51,1	64,7	187,1

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



Serijska / *Series GN - O*

Tip Type	Oznaka / <i>Marking</i>			L			
	D1	D2	OK	1	2	3...12	
GN 12	12	5	36	38,1	47,8	57,5	144,8
GN 20	12	5	36	38,1	47,8	57,5	144,8
GN 25	12	5	36	42,5	56,1	69,7	192,1

SPOJKA ZA VRATA *DOOR COUPLING*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

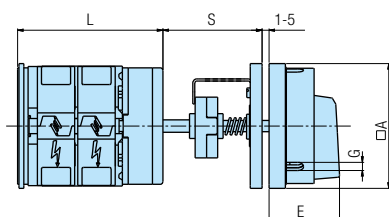
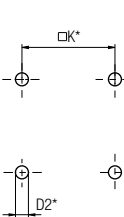


99

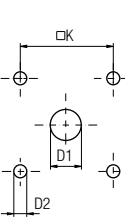
Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Kut zakreta 60° i 90°. Ukoliko je traženi "S" veći od ponudjenog, potrebno je definirati "S" ili dubinu ormara (L+S). Minimalna udaljenost od šarke 150 mm.

Padlocking (1 - 3) only in "0". Door-opening only in "0". Protection against an accidental contact with the terminals under voltage only in "0". Switching angle 60° and 90°. When required "S" is bigger than offered, it is necessary to define "S" or depth of the board (L+S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



Serijska / *Series GN - O*

Tip Type	Oznaka / <i>Marking</i>							L			
	A	D1	D2	E	G	OK	S	1	2	3...12	
GN 12H	65	12	5	34,2	6	48	60	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,2	6	48	60	41,1	50,8	60,5	147,8
GN 25H	65	12	5	34,2	6	48	60	45,5	59,1	72,7	195,1
GN 40	65	14	5	38	6	48	64	51,5	66,6	81,7	217,6
GN 40H	90	14	6	49	7	68	64	51,5	66,6	81,7	217,6
GN 63*	65	14	5	38	6	48	64	57,3	75,4	93,5	256,4
GN 63H	90	14	6	49	7	68	64	57,3	75,4	93,5	256,4
GN 125	90	16	6	49	7	68	76	74,8	103,9	133	394,9

za / for GN63 D2=6 OK*=68

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

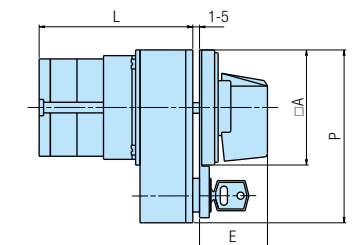
SKLOPKE SA ZAKLJUČAVANJEM *SWITCHES WITH LOCKING*



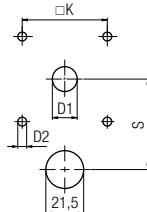
05

Standardno zaključavanje u "0" - moguće i u drugim položajima (potrebno definirati). Ključ se vadi samo u zaključanom položaju.

In standard manner locking is in "0" - possible in other positions, too (please define). The key can be pulled out only in locked position.



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking							L				
	$\square A$	D1	D2	E	$\square K$	P	S	1	2	3...12		
GN 12H	65	12	5	36	48	65x98	48	63,6	73,3	83	170,3	
GN 20H	65	12	5	36	48	65x98	48	63,6	73,3	83	170,3	
GN 25H	65	12	5	36	48	65x98	48	68	81,6	95,2	217,6	
GN 32	65	14	5	36	48	65x98	48	70,9	84,5	98,1	220,5	
GN 32B*	90	16	6	41,5	68	90x122	60	79,8	93,4	107	229,4	
GN 40	65	14	5	36	48	65x98	48	73,5	88,6	103,7	239,6	
GN 40B*	90	16	6	41,5	68	90x122	60	82,4	97,5	112,6	248,5	
GN 63	65	14	5	36	48	65x98	48	77,3	95,4	113,5	276,4	
GN 63B*	90	16	6	41,5	68	90x122	60	86,2	104,3	122,4	256,8	
GN 125*	90	16	6	41,5	68	90x122	60	95,8	124,9	154	423,4	

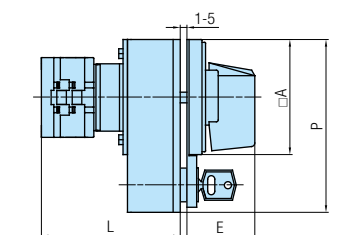
Serijska / Series GF - U

Tip Type	Oznaka / Marking							L				
	$\square A$	D1	D2	E	$\square K$	P	S	1	2	3...12		
GF 20H	65	12	5	36	48	65x98	48	71,5	85	98,5	220	

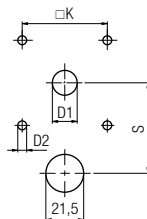
Serijska / Series G/4G - U

Tip Type	Oznaka / Marking							L											
	$\square A$	D1	D2	E	$\square K$	P	S	1	2	3	4	5	6	7	8	9	10	11	12
4G200*	132	16	5,3	56,5	104	132x168	85	77	107	136	166	196	226	284	314	343	373	402	432
G315*	132	16	5,3	56,5	104	132x168	85	77	107	136	166	196	226	284	314	343	373	402	432
4G400*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	314	-	373	-	432
G630*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	314	-	373	-	432
G900*	132	16	5,3	56,5	104	132x168	85	-	-	136	-	-	226	-	-	343	-	-	432
G1200*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	-	373	-	-	432
G1600*	132	16	5,3	56,5	104	132x168	85	-	-	136	-	-	226	-	-	343	-	-	432
G2000*	132	16	5,3	56,5	104	132x168	85	-	-	-	166	-	-	-	314	-	-	-	432

*Metalna konstrukcija / Metal design



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GX - U

Tip Type	Oznaka / Marking							L				
	$\square A$	D1	D2	E	$\square K$	P	S	1	2	3...12		
GX 16H	65	12	5	36	48	65x98	48	70,5	79	87,5	164	
GX 20H	65	12	5	36	48	65x98	48	70,5	79	87,5	164	
GX 32	65	14	5	36	48	65x98	48	78	90	102	210	
GX 40	65	14	5	36	48	65x98	48	78	90	102	210	

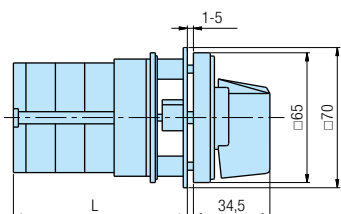
SKLOPKE SA ZAKLJUČAVANJEM *SWITCHES WITH LOCKING*



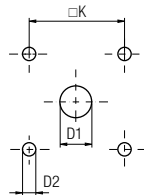
13

Utični ključ. Standardno vađenje ključa u "0". Na poseban zahtjev moguće i u drugim položajima pod 90°.

Socket key. In a standard manner pull-out of the key in "0". Possible in other positions at the angle of 90° (please define).



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking				L			
	D1	D2	$\square K$		1	2	3...12	
GN 12H	12	5	48		48,6	58,3	68	155,3
GN 20H	12	5	48		48,6	58,3	68	155,3
GN 25H	12	5	48		53	67	80,2	202,6
GN 32	14	5	48		55,9	69,5	83,1	205,5
GN 40	14	5	48		58,5	73,6	88,7	224,6
GN 63	14	5	48		62,3	80,4	98,5	261,4

Serijska / Series GF - U

Tip Type	Oznaka / Marking				L			
	D1	D2	$\square K$		1	2	3...12	
GF 20H	12	5	48		57	70,5	84	205,5

Serijska / Series GX - U

Tip Type	Oznaka / Marking				L			
	D1	D2	$\square K$		1	2	3...12	
GX 16H	12	5	48		55,5	64	72,5	149
GX 20H	12	5	48		55,5	64	72,5	149
GX 32	14	5	48		63	75	87	195
GX 40	14	5	48		63	75	87	195

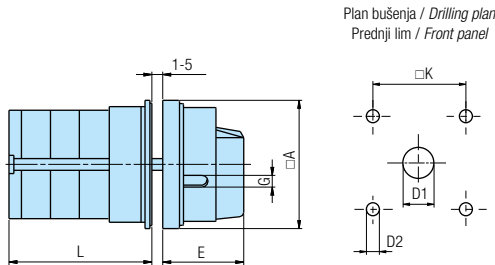
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SKLOPKE SA ZAKLJUČAVANJEM *SWITCHES WITH LOCKING*



06

Standardno zaključavanje u "0". Koristi se kod sklopki 0-1 (60°, 90°). Moguća upotreba (60°) s većim brojem položaja (max. 6).
In standard manner locking is in "0". Used at switches 0-1 (60°, 90°). Possible use (60°) with several positions (max. 6).



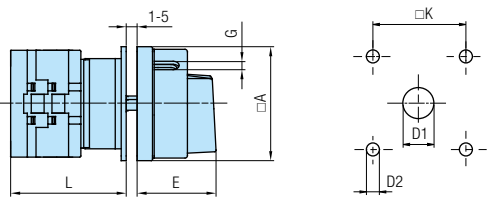
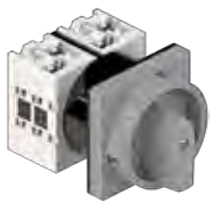
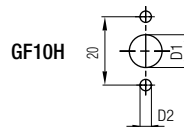
Serijska / Series GN - U

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GN 12	48	12	5	34,2	5	36	33,1	42,8	52,5	139,8
GN 12H	65	12	5	38	6	48	33,6	43,3	53	140,3
GN 20	48	12	5	34,2	5	36	33,1	42,8	52,5	139,8
GN 20H	65	12	5	38	6	48	33,6	43,3	53	140,3
GN 25	48	12	5	34,2	5	36	37,5	51,1	64,7	187,1
GN 25H	65	12	5	38	6	48	38	51,6	65,2	187,6
GN 32	65	14	5	38	6	48	40,9	54,5	68,1	190,5
GN 32H	90	14	6	49	7	68	41,6	55,2	68,8	191,2
GN 40	65	14	5	38	6	48	43,5	58,6	73,7	209,6
GN 40H	90	14	6	49	7	68	44,2	59,3	74,4	210,3
GN 63	65	14	5	38	6	48	47,3	65,4	83,5	246,4
GN 63H	90	14	6	49	7	68	48	66,1	84,2	247,1
GN 125	90	16	6	49	7	68	67,3	96,4	125,5	387,4

Serijska / Series GF - U

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
*GF 10H	48	12	5	34,2	5	-	45,5	57,5	69,5	-
GF 20	48	12	5	34,2	5	36	41	54,5	68	189,5
GF 20H	65	12	5	38	6	48	41,5	55	68,5	190

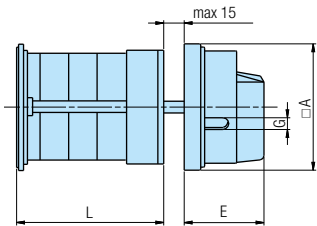
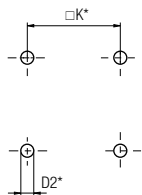
*GF10H max. 8 elem.



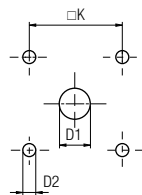
Serijska / Series GX - U

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GX 16	48	12	5	34,2	36	5	40	48,5	57	133,5
GX 16H	65	12	5	38	48	6	40,5	49	57,5	134
GX 20	48	12	5	34,2	36	5	40	48,5	57	133,5
GX 20H	65	12	5	38	48	6	40,5	49	57,5	134
GX 32	65	14	5	38	48	6	48	60	72	180
GX 32H	90	14	6	49	68	7	50	62	74	182
GX 40	65	14	5	38	48	6	48	60	72	180
GX 40H	90	14	6	49	68	7	50	62	74	182

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GN 12	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
GN 12H	65	12	5	38	6	48	38,6	48,3	58	145,3
GN 20	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
GN 20H	65	12	5	38	6	48	38,6	48,3	58	145,3
GN 25	48	12	5	34,2	5	36	42,5	56,1	69,7	192,1
GN 25H	65	12	5	38	6	48	43	56,6	70,2	192,6
GN 32	65	14	5	38	6	48	45,9	59,5	73,1	195,5
GN 32H	90	14	6	49	7	68	46,6	60,2	73,8	196,2
GN 40	65	14	5	38	6	48	48,5	63,6	78,7	214,6
GN 40H	90	14	6	49	7	68	49,2	64,3	79,4	215,3
GN 63*	65	14	5	38	6	48	54,3	72,4	90,5	253,4
GN 63H	90	14	6	49	7	68	55	73,1	91,2	254,1
GN 125	90	16	6	49	7	68	74,8	103,9	133	394,9

* za / for GN63 D2*=6 $\square K$ *=68

Serijska / Series GF - 0

Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	G	$\square K$	1	2	3...12	
GF 20	48	12	5	34,2	5	36	38,1	47,8	57,5	144,8
GF 20H	65	12	5	38	6	48	38,6	48,3	58	145,3

Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L				
	$\square A$	D1	D2	E	F	$\square K$	G	1	2	3...12	
GX 16	48	12	5	34,2	52	36	5	37	45,5	54	130,5
GX 16H	65	12	5	38	52	48	6	37	45,5	54	130,5
GX 20	48	12	5	34,2	52	36	5	37	45,5	54	130,5
GX 20H	65	12	5	38	52	48	6	37	45,5	54	130,5
GX 32	65	14	5	38	68	48	6	48	60	72	180
GX 32H	90	14	6	49	68	68	7	48	60	72	180
GX 40	65	14	5	38	68	48	6	48	60	72	180
GX 40H	90	14	6	49	68	68	7	48	60	72	180

Serijska / Series GN

RUČICA HANDLE	ČEONA PLOČA COVER PLATE	PREDNJA PLOČA FRONT PLATE	Y KOD / CODE
crna / black	crna / black	crna / black	
siva / grey	siva / grey	siva / grey	20
crvena / red	žuta / yellow	žuta / yellow	40

Serijska / Series GF/GX

RUČICA HANDLE	ČEONA PLOČA COVER PLATE	PREDNJA PLOČA FRONT PLATE
siva / grey	siva / grey	siva / grey

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

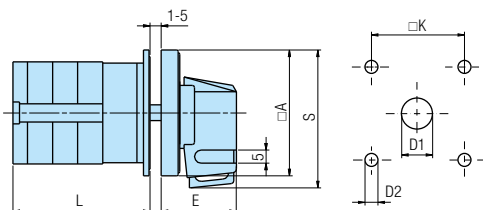
SKLOPKE SA ZAKLJUČAVANJEM SWITCHES WITH LOCKING



56

Standardno zaključavanje u "0" - moguće i u drugim položajima (potrebno definirati). Moguća zaključavanja s 1 - 3 lokota.
In standard manner locking is in "0" - possible in other positions, too (please define). It is possible to use 1 - 3 padlocks.

Plan bušenja / Drilling plan
Prednji lim / Front panel

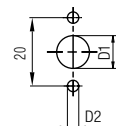


Serijska / Series GN - U

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GN 12	48	12	5	34,5	36	57	33,1	42,8	52,5	139,8
GN 20	48	12	5	34,5	36	57	33,1	42,8	52,5	139,8
GN 25	48	12	5	34,5	36	57	37,5	51,1	64,7	187,1



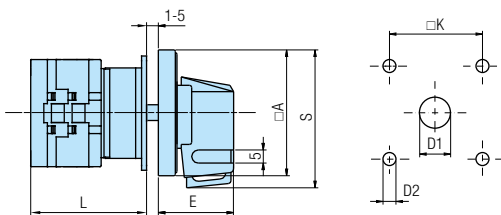
GF10H



Serijska / Series GF - U

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GF 10H	48	9	3,2	34,5	-	57	45	57	69	-
GF 20	48	12	5	34,5	36	57	41	54,5	68	189,5

*GF10H max. 8 elem.

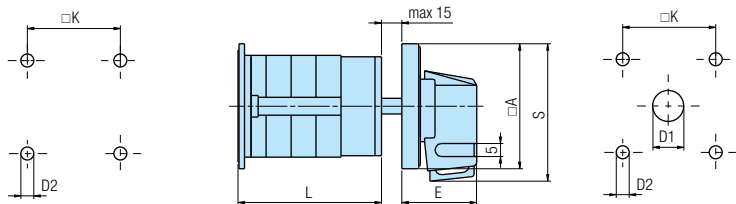


Serijska / Series GX - U

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GX 16	48	12	5	34,5	36	57	40	48,5	57	133,5
GX 20	48	12	5	34,5	36	57	40	48,5	57	133,5

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

Plan bušenja / Drilling plan
Prednji lim / Front panel

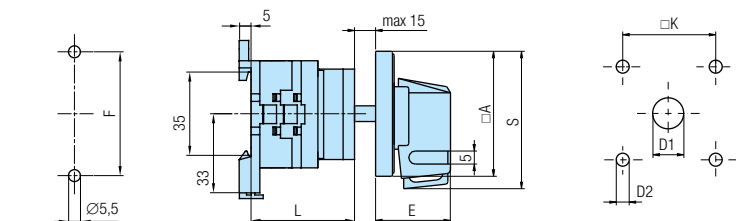


Serijska / Series GN - 0

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GN 12	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
GN 20	48	12	5	34,5	36	57	38,1	47,8	57,5	144,8
GN 25	48	12	5	34,5	36	57	42,5	56,1	69,7	192,1

Serijska / Series GF - 0

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GF 20	48	12	5	34,5	36	57	46	59,5	73	194,5



Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L				
	□A	D1	D2	E	F	□K	S	1	2	3...12	
GX 16	48	12	5	34,5	52	36	57	37	45,5	54	130,5
GX 20	48	12	5	34,5	52	36	57	37	45,5	54	130,5

Serijska / Series GN

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20
crvena-žuta / red-yellow	žuta / yellow	žuta / yellow	40

Serijska / Series GF/GX

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

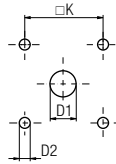
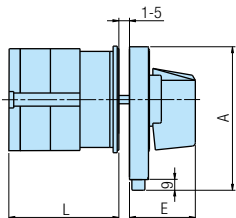
SKLOPKE SA ZAKLJUČAVANJEM *SWITCHES WITH LOCKING*



06D

Standardno zaključavanje u "0" - moguće i u drugim položajima (potrebno definirati). Moguća zaključavanja s 1 - 4 lokota.
In standard manner locking is in "0" - possible in other positions, too (please define). It is possible to use 1 - 4 padlocks.

Plan bušenja / Drilling plan
Prednji lim / Front panel

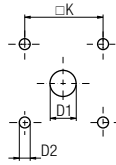
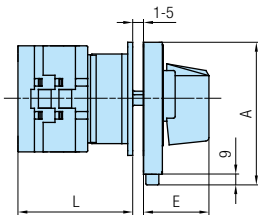


Serijska / Series GN - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	E	□K	1	2	3.....12			
GN 32H	90x112	14	6	48	68	41,6	55,2	68,8	191,2		
GN 40H	90x112	14	6	48	68	44,2	59,3	74,4	210,3		
GN 63H	90x112	14	6	48	68	48	66,1	84,2	247,1		
GN 125	90x112	16	6	48	68	67,3	96,4	125,5	394,9		

Serijska / Series G/4G - U

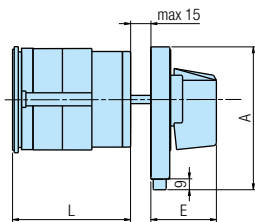
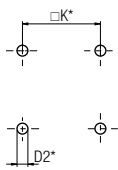
Tip Type	Oznaka / Marking						L											
	A	D1	D2	E	□K	1	2	3	4	5	6	7	8	9	10	11	12	
4G200	132x156,5	16	5,3	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432	
G315	132x156,5	16	5,3	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432	
4G400	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432	
G630	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432	
G900	132x156,5	16	5,3	62,5	104	-	-	136	-	226	-	-	-	343	-	-	432	
G1200	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	-	-	373	-	432	
G1600	132x156,5	16	5,3	62,5	104	-	-	136	-	226	-	-	-	343	-	-	432	
G2000	132x156,5	16	5,3	62,5	104	-	-	-	166	-	-	-	314	-	-	-	432	



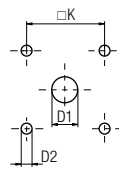
Serijska / Series GX - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	E	□K	1	2	3.....12			
GX 32H	90x112	14	6	48	68	50	62	74	182		
GX 40H	90x112	14	6	48	68	50	62	74	182		

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - O

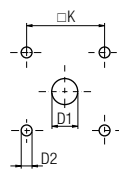
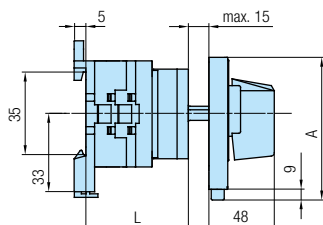
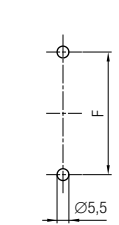
Tip Type	Oznaka / Marking						L				
	A	D1	D2	E	□K	1	2	3.....12			
GN 32H	90x112	14	6	48	68	46,6	60,2	73,8	196,2		
GN 40H	90x112	14	6	48	68	49,2	64,3	79,4	215,3		
GN 63H	90x112	14	6	48	68	55	73,1	91,2	254,1		
GN 125	90x112	16	6	48	68	74,8	103,9	133	394,9		

Serijska / Series G/4G - O

Tip Type	Oznaka / Marking						L											
	A	D1	D2	E	□K	1	2	3	4	5	6	7	8	9	10	11	12	
4G200	132x156,5	16	5,3	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432	
G315	132x156,5	16	5,3	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432	
4G400	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432	
G630	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432	
G900	132x156,5	16	5,3	62,5	104	-	-	136	-	226	-	-	-	343	-	-	432	
G1200	132x156,5	16	5,3	62,5	104	-	107	-	166	-	226	-	-	-	373	-	432	
G1600	132x156,5	16	5,3	62,5	104	-	-	136	-	226	-	-	-	343	-	-	432	
G2000	132x156,5	16	5,3	62,5	104	-	-	-	166	-	-	-	314	-	-	-	432	

Serijska / Series GX - O

Tip Type	Oznaka / Marking						L			
	A	D1	D2	F	□K	1	2	3.....12		
GX 32H	90x112	14	6	68	68	48	60	72	180	
GX 40H	90x112	14	6	68	68	48	60	72	180	



Serijska / Series GX

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20
crvena / red	žuta / yellow	žuta / yellow	40

Serijska / Series GN, G/4G

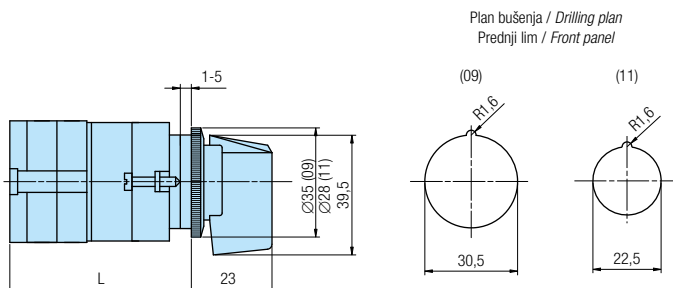
RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20
crvena / red	žuta / yellow	žuta / yellow	40
crna / black	crna / black	crna / black	50

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA *CENTRAL MOUNTING*



09 Ugradnja u $\varnothing 30$ mm (posebna izvedba 09) odnosno $\varnothing 22$ (posebna izvedba 11)
11 Mounting into $\varnothing 30$ mm (optional extra 09) or into $\varnothing 22$ mm (optional extra 11)

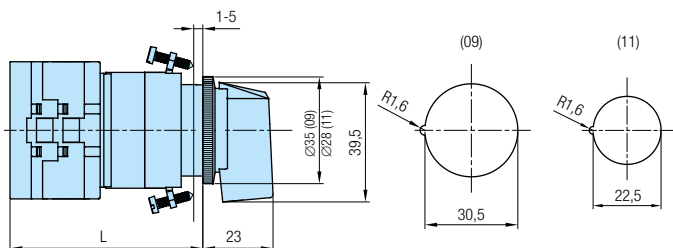


Serijska / Series GN - U

Tip Type	L			
	1	2	3...	8
GN 12	47	56,7	66,4	114,9
GN 20	47	56,7	66,4	114,9
GN 25	51,4	65	78,6	146,6

Serijska / Series GF - U

Tip Type	L			
	1	2	3...	12
GF 20	54,5	68	81,5	203



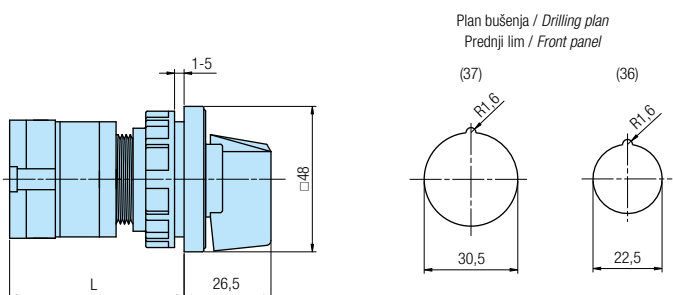
Serijska / Series GX - U

Tip Type	L			
	1	2	3...	12
GX 16	54	62,5	71	147,5
GX 20	54	62,5	71	147,5

CENTRALNA UGRADNJA *CENTRAL MOUNTING*



36 Brza ugradnja u $\varnothing 22$ mm (posebna izvedba 36) odnosno $\varnothing 30$ (posebna izvedba 37)
37 Quick mounting into $\varnothing 22$ mm (optional extra 36) or into $\varnothing 30$ mm (optional extra 37)

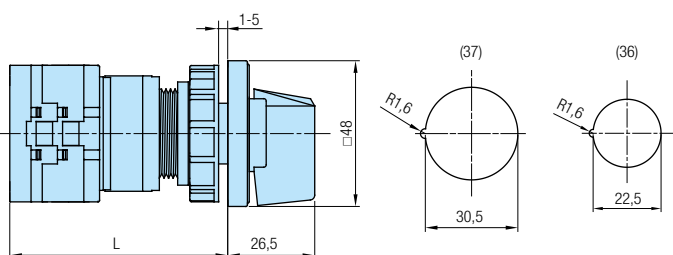


Serijska / Series GN - U

Tip Type	L			
	1	2	3...	12
GN 12	47	56,7	66,4	159,7
GN 20	47	56,7	66,4	159,7
GN 25	51,4	65	78,6	207

Serijska / Series GF - U

Tip Type	L			
	1	2	3...	12
GF 20	54,5	68	81,5	203



Serijska / Series GX - U

Tip Type	L			
	1	2	3...	12
GX 16	54	62,5	71	147,5
GX 20	54	62,5	71	147,5

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA CENTRAL MOUNTING

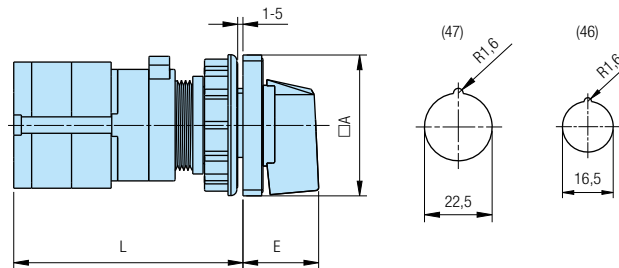


47
46

Brza ugradnja u $\varnothing 22$ mm (posebna izvedba 47), odnosno $\varnothing 16$ mm (posebna izvedba 46 - samo za GF10). Utična montaža kontaktnog bloka i prednjeg sklopa (odvajanje u položaju "0"). Olakšano ožičenje sklopke.

Quick mounting into $\varnothing 22$ mm (optional extra 47) or into $\varnothing 16$ mm (optional extra 46 - only for GF10). Snap-on mounting of contact block with front part (separation in position "0"). Relief the cable connection.

Plan bušenja / Drilling plan
Prednji lim / Front panel



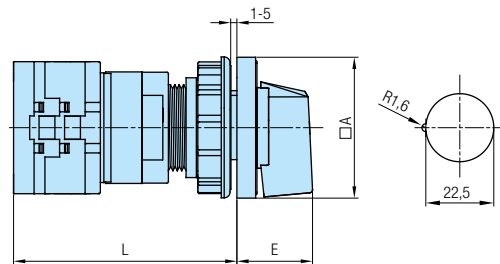
Seriya / Series GN - U

Tip Type	Oznaka / Marking		L			
	□A	E	1	2	3...12	
GN 12	48	26,5	58	67,7	77,4	164,7
GN 20	48	26,5	58	67,7	77,4	164,7
GN 25	48	26,5	62,4	76	89,6	212

Seriya / Series GF - U

Tip Type	Oznaka / Marking		L			
	□A	E	1	2	3...12	
GF 10*	30	18,5	60	72	84	-
GF 20	48	26,5	56	69,5	83	204,5

*GF10H max. 8 elem.



Seriya / Series GX - U

Tip Type	Oznaka / Marking		L			
	□A	E	1	2	3...12	
GX 16	48	26,5	64,9	73,4	81,9	158,4
GX 20	48	26,5	64,9	73,4	81,9	158,4

CENTRALNA UGRADNJA CENTRAL MOUNTING

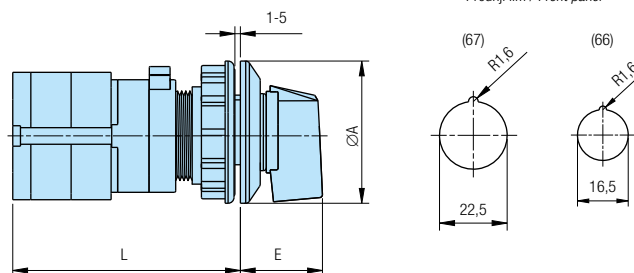


67
66

Brza ugradnja u $\varnothing 22$ mm (posebna izvedba 67), odnosno $\varnothing 16$ mm (posebna izvedba 66 - samo za GF10). Utična montaža kontaktnog bloka i prednjeg sklopa (odvajanje u položaju "0"). Olakšano ožičenje sklopke.

Quick mounting into $\varnothing 22$ mm (optional extra 67) or into $\varnothing 16$ mm (optional extra 66 - only for GF10). Snap-on mounting of contact block with front part (separation in position "0"). Relief the cable connection.

Plan bušenja / Drilling plan
Prednji lim / Front panel



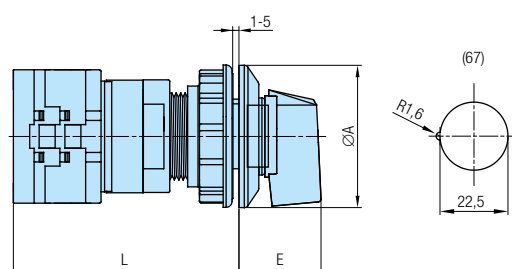
Seriya / Series GN - U

Tip Type	Oznaka / Marking		L			
	ØA	E	1	2	3...12	
GN 12	48	28	58	67,7	77,4	164,7
GN 20	48	28	58	67,7	77,4	164,7
GN 25	48	28	62,4	76	89,6	212

Seriya / Series GF - U

Tip Type	Oznaka / Marking		L			
	ØA	E	1	2	3...12	
GF 10*	30	22	60	72	84	-
GF 20	48	28	58	69,5	83	204,5

*GF10H max. 8 elem.



Seriya / Series GX - U

Tip Type	Oznaka / Marking		L			
	ØA	E	1	2	3...12	
GX 16	48	28	64,9	73,4	81,9	158,4
GX 20	48	28	64,9	73,4	81,9	158,4

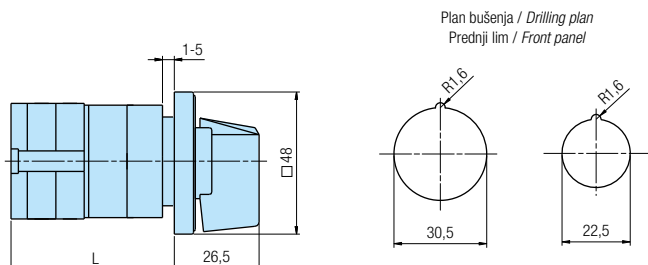
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA *CENTRAL MOUNTING*



20

Ugradnja u Ø22 mm odnosno Ø30 mm. Montaža s dva vijka.
Mounting into Ø22 mm or into Ø30 mm with two screws.

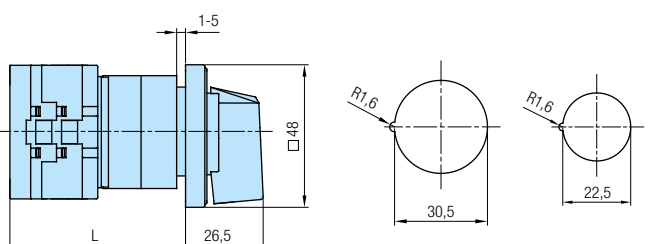


Serijska / *Series GN - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GN 12	42,3	52	61,7	149
GN 20	42,3	52	61,7	149
GN 25	46,7	60,3	73,9	196,3

Serijska / *Series GF - U*

Tip / <i>Type</i>	L			
	1	2	3...12	
GF 20	50,2	63,7	77,2	198,7



Serijska / *Series GX - U*

Tip / <i>Type</i>	L			
	1	2	3...12	
GX 16	49,2	57,7	66,2	142,7
GX 20	49,2	57,7	66,2	142,7

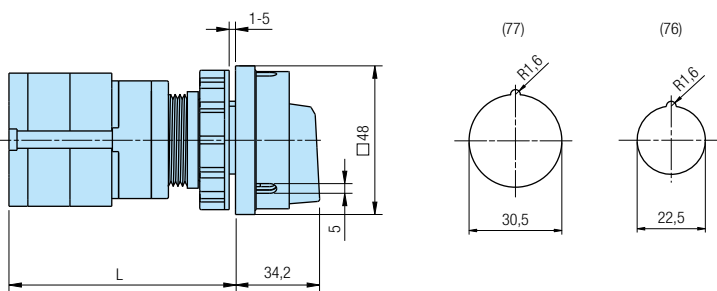
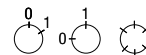
CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*



76

77

Brza montaža u Ø22 mm (posebna izvedba 76) odnosno Ø30 (posebna izvedba 77). Zaključavanje (1 - 3 lokota) u "0".
Quick mounting in Ø22 mm (optional extra 76) or into Ø30 mm (optional extra 77). Padlocking (1 - 3 locks) in "0".

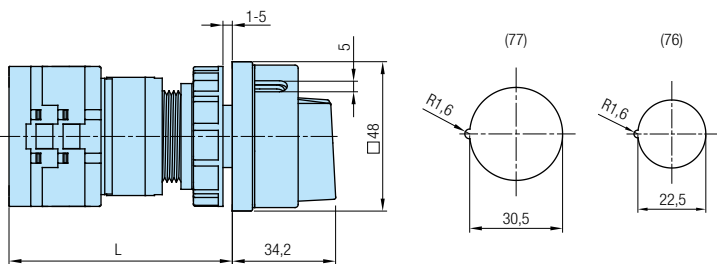


Serijska / *Series GN - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GN 12	53	62,7	72,4	159,7
GN 20	53	62,7	72,4	159,7
GN 25	57,4	71	84,6	207

Serijska / *Series GF - U*

Tip / <i>Type</i>	L			
	1	2	3...12	
GF 20	54,5	68	81,5	203



Serijska / *Series GX - U*

Tip / <i>Type</i>	L			
	1	2	3...12	
GX 16	59,9	68,4	76,9	153,4
GX 20	59,9	68,4	76,9	153,4

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*

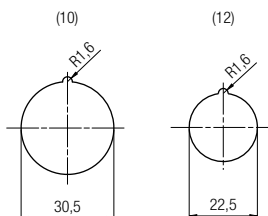
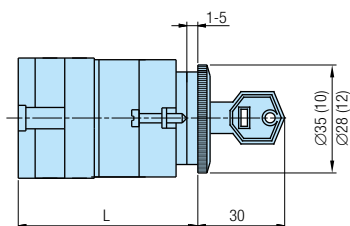


10
12

Ugradnja u $\varnothing 30$ mm (posebna izvedba 10) odnosno $\varnothing 22$ mm (posebna izvedba 12). Zaključavanje odnosno vađenje kluča pod 90° .
Moguća 1 - 4 zaključana položaja unutar 360° (potrebno definirati).

*Mounting into $\varnothing 30$ mm (optional extra 10) or into $\varnothing 22$ mm (optional extra 12). Locking and pull-out of the key at 90° .
Possible 1 - 4 locked positions within 360° (please define).*

Plan bušenja / Drilling plan
Prednji lim / Front panel

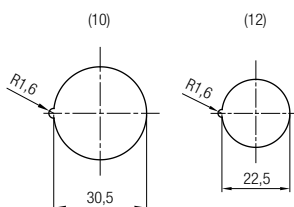
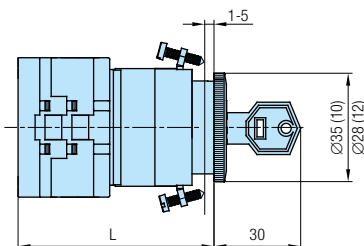


Serijska / Series GN - U

Tip / Type	L			
	1	2	3...8	
GN 12	47	56,7	66,4	114,9
GN 20	47	56,7	66,4	114,9
GN 25	51,4	65	78,6	146,6

Serijska / Series GF - U

Tip / Type	L			
	1	2	3...8	
GF 20	54,5	68	81,5	149



Serijska / Series GX - U

Tip / Type	L			
	1	2	3...8	
GX 16	54	62,5	71	113,4
GX 20	54	62,5	71	113,4

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*

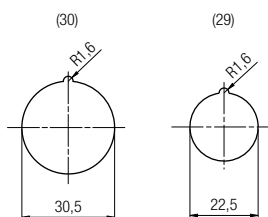
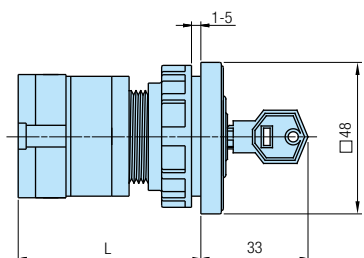


29
30

Brza ugradnja u $\varnothing 22$ mm (posebna izvedba 29) odnosno $\varnothing 30$ mm (posebna izvedba 30). Zaključavanje odnosno vađenje kluča pod 90° .
Moguća 1 - 4 zaključana položaja unutar 360° (potrebno definirati).

*Quick mounting into $\varnothing 22$ mm (optional extra 29) or into $\varnothing 30$ mm (optional extra 30). Locking and pull-out of the key at 90° .
Possible 1 - 4 locked positions within 360° (please define).*

Plan bušenja / Drilling plan
Prednji lim / Front panel

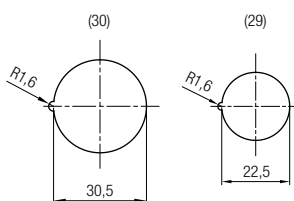
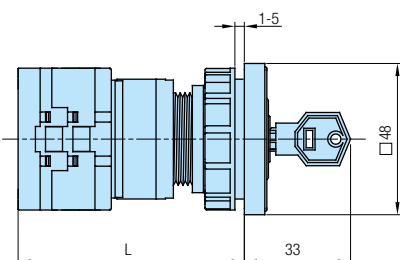


Serijska / Series GN - U

Tip / Type	L			
	1	2	3...8	
GN 12	47	56,7	66,4	114,9
GN 20	47	56,7	66,4	114,9
GN 25	51,4	65	78,6	146,6

Serijska / Series GF - U

Tip / Type	L			
	1	2	3...8	
GF 20	54,5	68	81,5	149



Serijska / Series GX - U

Tip / Type	L			
	1	2	3...8	
GX 16	54	62,5	71	113,4
GX 20	54	62,5	71	113,4

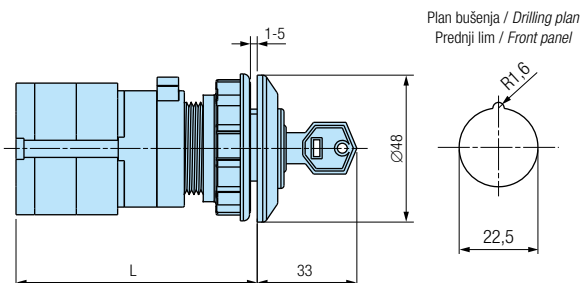
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*



29K

Ugradnja u $\varnothing 22$ mm. Utična montaža kontaktnog bloka i prednjeg sklopa. Olakšano ožičenje sklopke.
Mounting into $\varnothing 22$ mm. Snap-on mounting of contact block with front part. Relief the cable connection.



Serijska / *Series GN - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GN 12	58	67,7	77,4	114,9
GN 20	58	67,7	77,4	114,9
GN 25	62,4	76	89,6	146,6

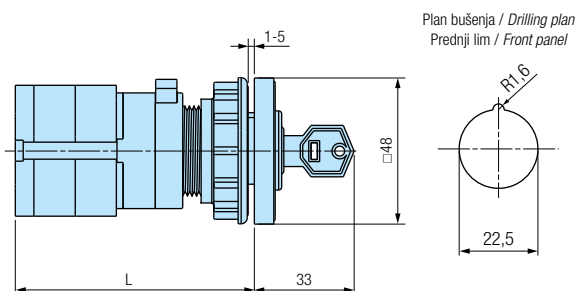
Serijska / *Series GF - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GF 20	54,5	68	81,5	149



29D

Ugradnja u $\varnothing 22$ mm. Utična montaža kontaktnog bloka i prednjeg sklopa. Olakšano ožičenje sklopke.
Mounting into $\varnothing 22$ mm. Snap-on mounting of contact block with front part. Relief the cable connection.

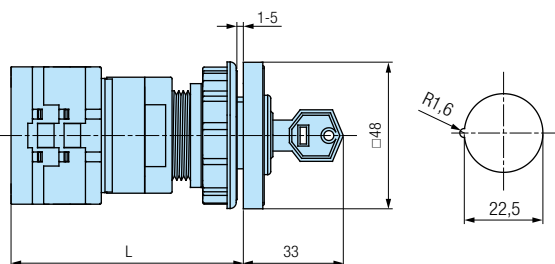


Serijska / *Series GN - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GN 12	58	67,7	77,4	114,9
GN 20	58	67,7	77,4	114,9
GN 25	62,4	76	89,6	146,6

Serijska / *Series GF - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GF 20	54,5	68	81,5	149



Serijska / *Series GX - U*

Tip / <i>Type</i>	L			
	1	2	3...8	
GX 16	64,9	73,4	81,9	124,4
GX 20	64,9	73,4	81,9	124,4

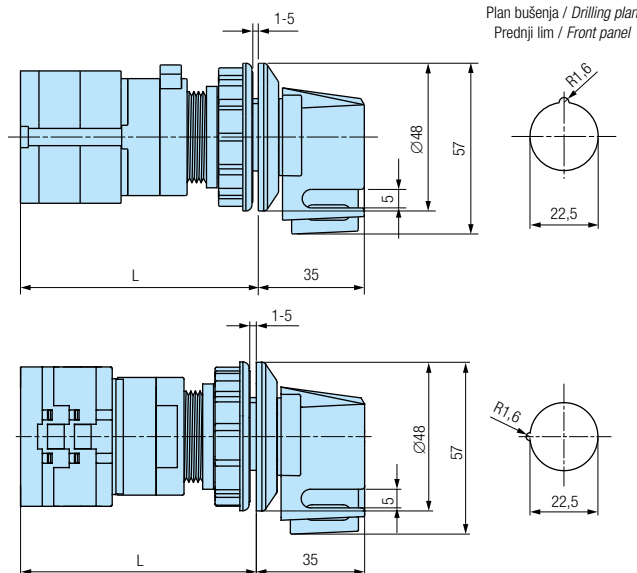
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM CENTRAL MOUNTING - SWITCHES WITH LOCKING


41K

Ugradnja u $\varnothing 22$ mm. Utična montaža kontaktnog bloka i prednjeg sklopa. Zaključavanje (1 - 3 lokota) u "0".
Olakšano ožičenje sklopke.

Mounting into $\varnothing 22$ mm. Snap-on mounting of contact block with front part. Padlocking (1 - 3) in "0". Relief the cable connection.


Serijska / Series GN - U

Tip Type	L		
	1	2	3...12
GN 12	58	67,7	77,4 164,7
GN 20	58	67,7	77,4 164,7
GN 25	62,4	76	89,6 212

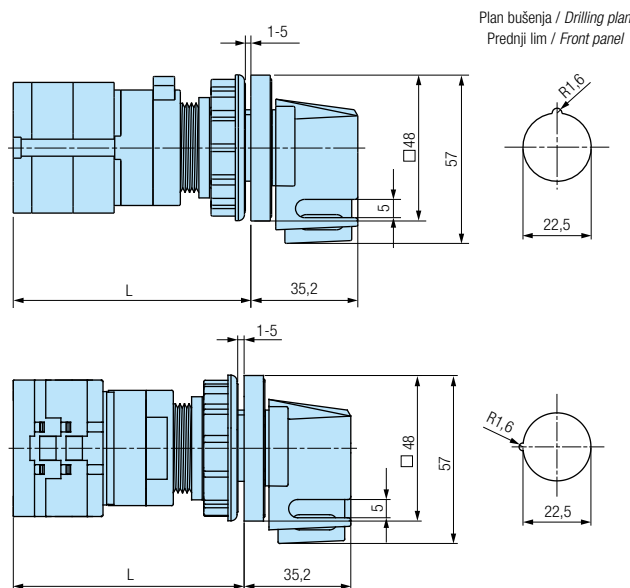
Serijska / Series GF - U

Tip Type	L		
	1	2	3...12
GF 20	54,5	68	81,5 203


41D

Ugradnja u $\varnothing 22$ mm. Utična montaža kontaktnog bloka i prednjeg sklopa. Zaključavanje (1 - 3 lokota) u "0".
Olakšano ožičenje sklopke.

Mounting into $\varnothing 22$ mm. Snap-on mounting of contact block with front part. Padlocking (1 - 3) in "0". Relief the cable connection.


Serijska / Series GN - U

Tip Type	L		
	1	2	3...12
GN 12	58	67,7	77,4 164,7
GN 20	58	67,7	77,4 164,7
GN 25	62,4	76	89,6 212

Serijska / Series GF - U

Tip Type	L		
	1	2	3...12
GF 20	54,5	68	81,5 203

Serijska / Series GX - U

Tip Type	L		
	1	2	3...12
GX 16	64,9	73,4	81,9 158,4
GX 20	64,9	73,4	81,9 158,4

Serijska GN/GF/GX(41D) / Series GN/GF/GX(41D)

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20
crvena-žuta / red-yellow	žuta / yellow	žuta / yellow	40

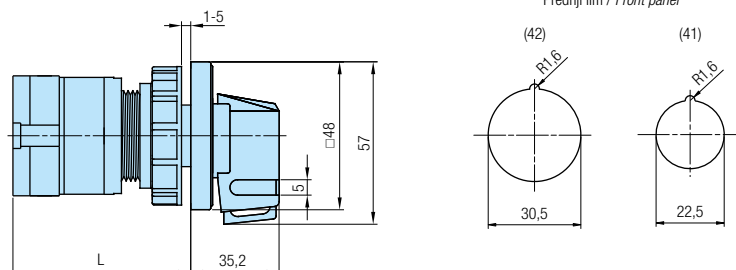
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*



41 Brza montaža u $\varnothing 22$ mm (posebna izvedba 41) odnosno $\varnothing 30$ mm (posebna izvedba 42). Zaključavanje (1 - 3 lokota) u "0".
42 Quick mounting in $\varnothing 22$ mm (optional extra 41) or into $\varnothing 30$ mm (optional extra 42). Padlocking (1 - 3) in "0".

Plan bušenja / Drilling plan
Prednji lim / Front panel

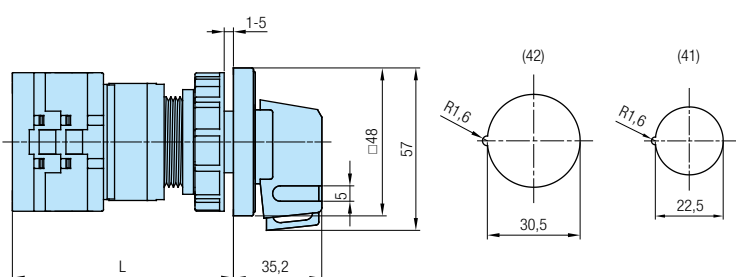


Serijska / Series GN - U

Tip	L			
Type	1	2	3...	12
GN 12	53	62,7	72,4	159,7
GN 20	53	62,7	72,4	159,7
GN 25	57,4	71	84,6	207

Serijska / Series GF - U

Tip	L			
Type	1	2	3...	12
GF 20	54,5	68	81,5	203



Serijska / Series GX - U

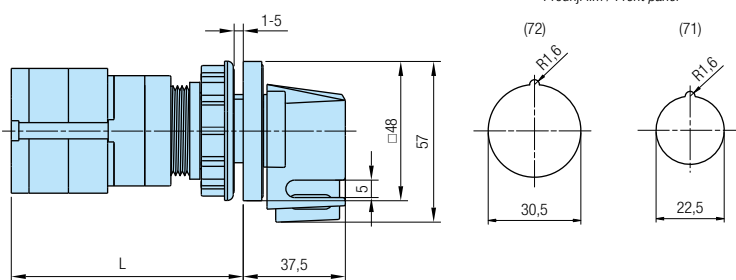
Tip	L			
Type	1	2	3...	12
GX 16	59,9	68,4	76,9	153,4
GX 20	59,9	68,4	76,9	153,4

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*



71 Brza montaža u $\varnothing 22$ mm (posebna izvedba 71) odnosno $\varnothing 30$ mm (posebna izvedba 72). Zaključavanje (1 - 3 lokota) u "0".
72 Quick mounting in $\varnothing 22$ mm (optional extra 71) or into $\varnothing 30$ mm (optional extra 72). Padlocking (1 - 3) in "0".

Plan bušenja / Drilling plan
Prednji lim / Front panel

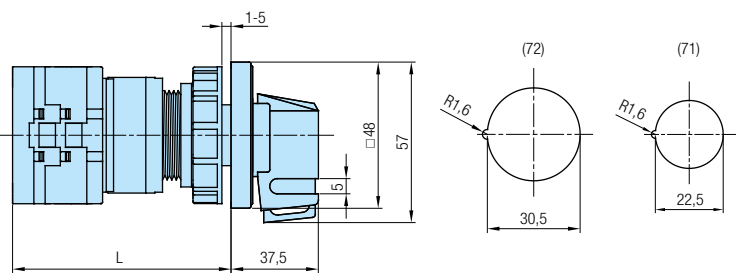


Serijska / Series GN - U

Tip	L			
Type	1	2	3...	12
GN 12	53	62,7	72,4	159,7
GN 20	53	62,7	72,4	159,7
GN 25	57,4	71	84,6	207

Serijska / Series GF - U

Tip	L			
Type	1	2	3...	12
GF 20	54,5	68	81,5	203



Serijska / Series GX - U

Tip	L			
Type	1	2	3...	12
GX 16	59,9	68,4	76,9	153,4
GX 20	59,9	68,4	76,9	153,4

Serijska GN/GF/GX(41/42, 71/72) / Series GN/GF/GX(41/42, 71/72)

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	bijela / white	
siva / grey	siva / grey	bijela / white	20
crvena - žuta / red - yellow	žuta / yellow	žuta / yellow	40

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

BLOKADE POLOŽAJA - DVORUČNO UPRAVLJANJE *BLOCKADE OF POSITIONS-TWO HANDS OPERATING*

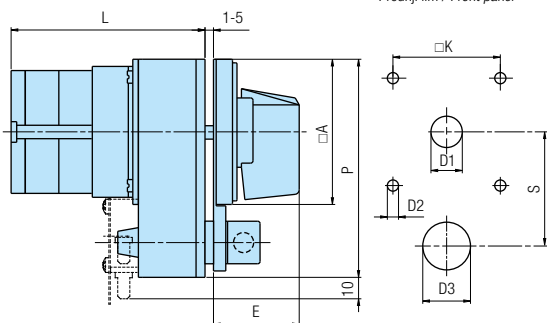


16
17
26
27

Izvedbe **16** i **26** bez, odnosno izvedbe **17** i **27** s pomoćnim kontaktima. Kod posebnih izvedbi **17** i **27** moguća izvedba s jednim ili dva para uklopno - isključivih kontakata. Posebne izvedbe **26** i **27** omogućuju zaključavanje jednim lokotom. Upravljanje kontaktima ostvaruje se prije funkcije sklopke. Standardno: blokada položaja u "0", pomoćni kontakti 1NO + 1NC. Nestandardnu blokadu položaja i broj pomoćnih kontakata potrebno je definirati narudžbom.

Optional extras 16 and 26 without and optional extras 17 and 27 with auxiliary contacts. Optional extras 17 and 27 with one or two pairs of the open - close contacts. Optional extras 26 and 27 have possibility of locking by one padlock. Operating of the contacts is being realized before switch function. Standard: blockade in "0", auxiliary contacts 1NO + 1NC. It is necessary to define blockade of the positions and number of auxiliary contacts.

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

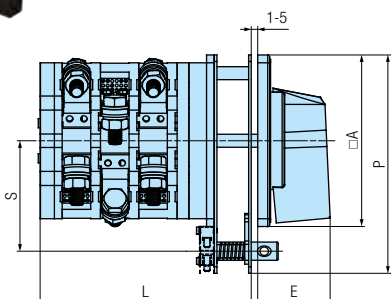
Tip Type	Oznaka / Marking								L			
	A	D1	D2	D3	E	K	P	S	1	2	3...12	
GN 12H	65	12	5	20	36	48	65x98	48	63,6	73,3	83	170,3
GN 20H	65	12	5	20	36	48	65x98	48	63,6	73,3	83	170,3
GN 25H	65	12	5	20	36	48	65x98	48	68	81,6	95,2	217,6
GN 32	65	14	5	20	36	48	65x98	48	70,9	84,5	98,1	220,5
GN 32B*	90	16	6	15	41,5	68	90x122	60	79,8	93,4	107	229,4
GN 40	65	14	5	20	36	48	65x98	48	73,5	88,6	103,7	239,6
GN 40B*	90	16	6	15	41,5	68	90x122	60	82,4	97,5	112,6	248,5
GN 63	65	14	5	20	36	48	65x98	48	77,3	95,4	113,5	276,4
GN 63B*	90	16	6	15	41,5	68	90x122	60	86,2	104,3	122,4	256,8
GN 125	90	16	6	15	41,5	68	90x122	60	95,8	124,9	154	423,4

*Metalna konstrukcija / Metal design



Serijska / Series GF - U

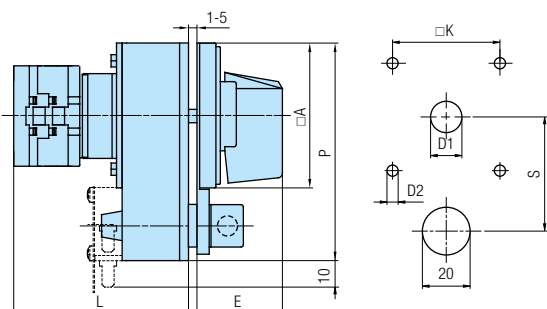
Tip Type	Oznaka / Marking								L			
	A	D1	D2	D3	E	K	P	S	1	2	3...12	
GF 20H	65	12	5	20	36	48	65x98	48	71,5	85	98,5	220



Serijska / Series G/4G - U

Tip Type	Oznaka / Marking								L											
	A	D1	D2	E	K	P	S	1	2	3	4	5	6	7	8	9	10	11	12	
4G200*	132	16	5,3	56,5	104	132x168	85	77	107	136	166	196	226	284	314	343	373	402	432	
G315*	132	16	5,3	56,5	104	132x168	85	77	107	136	166	196	226	284	314	343	373	402	432	
4G400*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	314	-	373	-	432	
G630*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	314	-	373	-	432	
G900*	132	16	5,3	56,5	104	132x168	85	-	-	136	-	-	226	-	-	343	-	-	432	
G1200*	132	16	5,3	56,5	104	132x168	85	-	107	-	166	-	226	-	-	373	-	-	432	
G1600*	132	16	5,3	56,5	104	132x168	85	-	-	136	-	-	226	-	-	343	-	-	432	
G2000*	132	16	5,3	56,5	104	132x168	85	-	-	-	166	-	-	-	314	-	-	-	432	

*Metalna konstrukcija / Metal design



Serijska / Series GX - U

Tip Type	Oznaka / Marking								L			
	A	D1	D2	E	K	P	S	1	2	3...12		
GX 16H	65	12	5	36	48	65x98	48	70,5	79	87,5	164	
GX 20H	65	12	5	36	48	65x98	48	70,5	79	87,5	164	
GX 32	65	14	5	36	48	65x98	48	78	90	102	210	
GX 40	65	14	5	36	48	65x98	48	78	90	102	210	

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

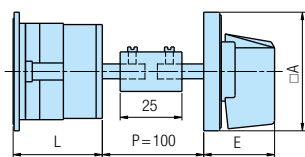
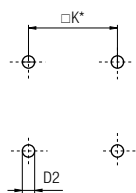
PRODUŽENJE OSOVINE *EXTENSION SHAFT*



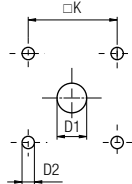
02

Standardna izvedba podrazumijeva da je $P = 100$ mm. Specijalnom narudžbom potrebno je definirati dubinu ormara ($L + P$).
Standard version includes the $P = 100$ mm. It is necessary to define board depth ($L + P$).

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking					L						
	A	D1	D2	E	K	1	2	3...	12			
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8			
GN 12H	65	12	5	34,5	48	38,6	48,3	58	145,3			
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8			
GN 20H	65	12	5	34,5	48	38,6	48,3	58	145,3			
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1			
GN 25H	65	12	5	34,5	48	43	56,6	70,2	192,6			
GN 32	65	14	5	34,5	48	45,9	59,5	73,1	195,5			
GN 32H	90	14	6	41,5	68	46,6	60,2	73,8	196,2			
GN 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6			
GN 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3			
GN 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4			
GN 63H*	90	14	6	41,5	68	55	73,1	91,2	254,1			
GN 125	90	16	6	41,5	68	74,8	103,9	133	394,9			

* za / for GN63 D2*=6 K*=68

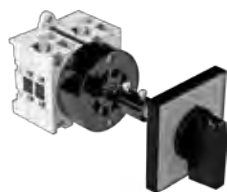
Serijska / Series GF - 0

Tip Type	Oznaka / Marking					L						
	A	D1	D2	E	K	1	2	3...	12			
GF 20	48	12	5	26,5	36	46	59,5	73	194,5			
GF 20H	65	12	5	34,5	48	47	60,5	74	195,5			

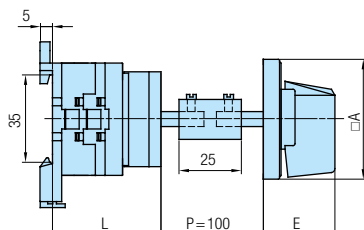
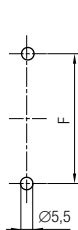


Serijska / Series G/4G - 0

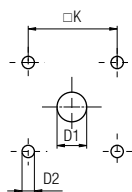
Tip Type	Oznaka / Marking					L											
	A	D1	D2	E	K	1	2	3	4	5	6	7	8	9	10	11	12
4G200	132	16	5,3	56,5	104	77	107	136	166	196	226	284	314	343	373	402	432
G315	132	16	5,3	56,5	104	77	107	136	166	196	226	284	314	343	373	402	432
4G400	132	16	5,3	56,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G630	132	16	5,3	56,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G900	132	16	5,3	56,5	104	-	-	136	-	226	-	-	343	-	-	-	432
G1200	132	16	5,3	56,5	104	-	107	-	166	-	226	-	-	373	-	-	432
G1600	132	16	5,3	56,5	104	-	-	136	-	226	-	-	343	-	-	-	432
G2000	132	16	5,3	56,5	104	-	-	-	166	-	-	-	314	-	-	-	432



Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L						
	A	D1	D2	E	F	K	1	2	3...	12			
GX 16	48	12	5	26,5	52	36	37	45,5	54	130,5			
GX 16H	65	12	5	34,5	52	48	37	45,5	54	130,5			
GX 20	48	12	5	26,5	52	36	37	45,5	54	130,5			
GX 20H	65	12	5	34,5	52	48	37	45,5	54	130,5			
GX 32	65	14	5	34,5	68	48	48	60	72	180			
GX 32H	90	14	6	41,5	68	68	48	60	72	180			
GX 40	65	14	5	34,5	68	48	48	60	72	180			
GX 40H	90	14	6	41,5	68	68	48	60	72	180			

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PRODUŽENJE OSOVINE I SPOJKA ZA VRATA *EXTENSION SHAFT AND DOOR COUPLING*

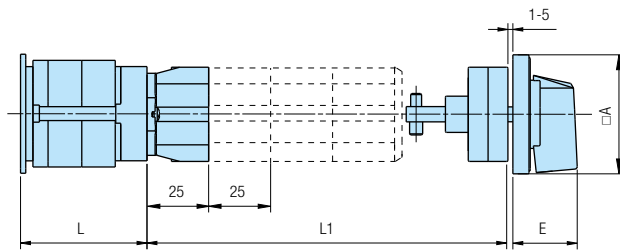
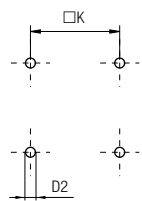


108D

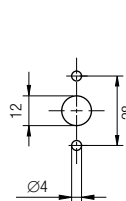
Upotreba kod sklopki odvojene ugradnje, omogućava prilagodbu različitim dubinama ugradnje. Otvaranje vrata u položaju "0". Standardno se isporučuje s jednim modulom.

Used to adapt switches with base mounting to different mounting depths. Door opening in position "0". Standard version with one module.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel

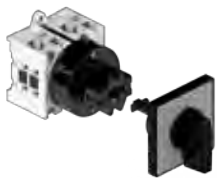


Serijska / Series GN - 0

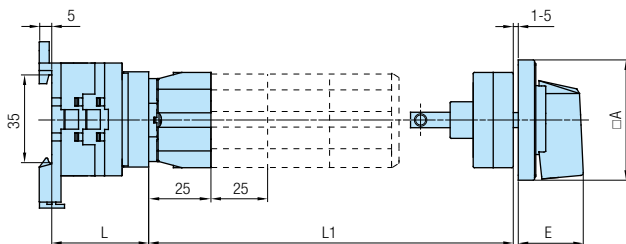
Tip Type	Oznaka / Marking				L			
	□A	D2	E	□K	1	2	3...12	
GN 12	48	5	26,5	36	33,1	42,8	52,5	139,8
GN 12H	65	5	34,5	48	33,6	43,3	53	140,3
GN 20	48	5	26,5	36	33,1	42,8	52,5	139,8
GN 20H	65	5	34,5	48	33,6	43,3	53	140,3
GN 25	48	5	26,5	36	37,5	51,1	64,7	187,1
GN 25H	65	5	34,5	48	38	51,6	65,2	187,6
GN 32	65	5	34,5	48	40,9	54,5	68,1	190,5
GN 40	65	5	34,5	48	43,5	58,6	73,7	209,6
GN 63	65	5	34,5	48	47,3	65,4	83,5	246,4

Serijska / Series GF - 0

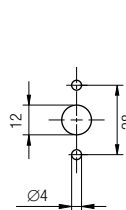
Tip Type	Oznaka / Marking				L			
	□A	D2	E	□K	1	2	3...12	
GF 20	48	5	26,5	36	46	59,5	73	194,5
GF 20H	65	5	34,5	48	46,5	60	73,5	195



Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GX - 0

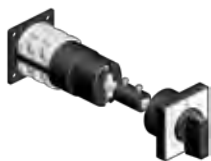
Tip Type	Oznaka / Marking				L			
	□A	E	F	□K	1	2	3...12	
GX 16	48	26,5	52	32	40,5	49	125,5	
GX 16H	65	34,5	52	32	40,5	49	125,5	
GX 20	48	26,5	52	32	40,5	49	125,5	
GX 20H	65	34,5	52	32	40,5	49	125,5	
GX 32	65	34,5	68	43	55	67	175	
GX 40	65	34,5	68	43	55	67	175	

KOD / CODE	IZVEDBA / VERSION
108D	Standardna izvedba s jednim modulom Standard version with one module
108D - 2	Izvedba s dva modula Version with two modules
108D - 3	Izvedba s tri modula Version with three modules
108D - 4	Izvedba s četiri modula Version with four modules

Broj modula/ Number of modules	L1	
	min	max
1	55	65
2	80	90
3	105	115
4	130	140

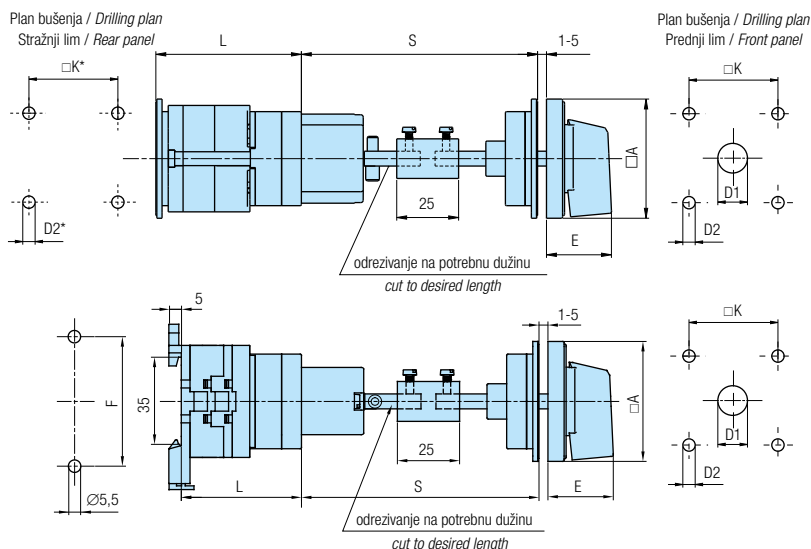
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PRODUŽENJE OSOVINE I SPOJKA ZA VRATA *EXTENSION SHAFT AND DOOR COUPLING*



258

Otvaranje vrata u položaju "0". Različita ugradbena dužina.
Door-opening in position "0". Different length for mounting.



Serijska / Series GN - 0

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	□K	S	1	2	3...12	
GN 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
GN 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
GN 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
GN 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
GN 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

* za / for GN63 D2*=□K*=68

Serijska / Series GX - 0

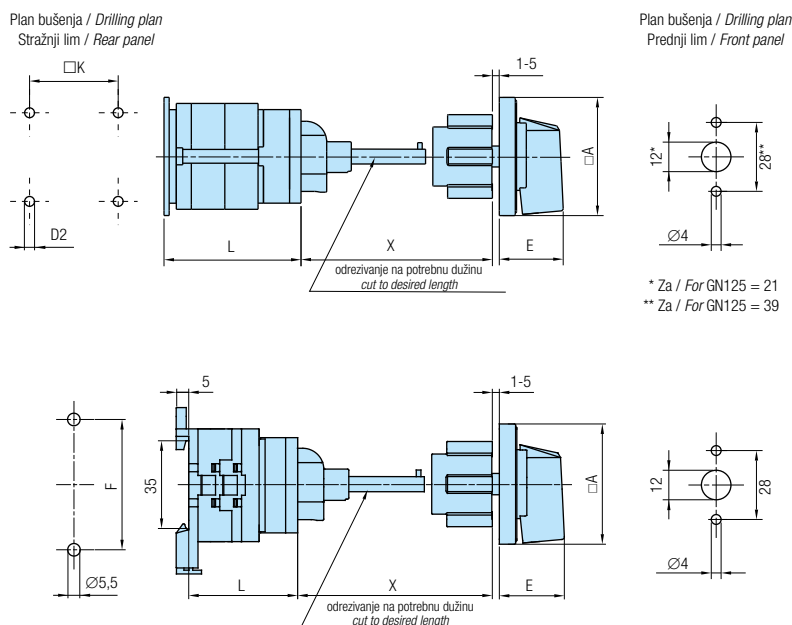
Tip Type	Oznaka / Marking						L				
	□A	D1	D2	E	F	□K	S	1	2	3...12	
GX 16	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 16H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 20	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 20H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 32	65	14	5	34,5	68	48	45-55	51	63	75	183
GX 40	65	14	5	34,5	68	48	45-55	51	63	75	183

PRODUŽENJE OSOVINE I SPOJKA ZA VRATA *EXTENSION SHAFT AND DOOR COUPLING*



102

Otvaranje vrata u položaju "0". Standardno se isporučuje s osovinom dužine 100 mm.
Door-opening in position "0". Standard version with 100 mm shaft.



Serijska / Series GN - 0

Tip Type	Oznaka / Marking						L			
	□A	D2	E	□K	X 102	X 102-200	1	2	3...12	
GN 12	48	5	26,5	36	113-122	213-222	38,1	47,8	57,5	144,8
GN 12H	65	5	34,5	48	113-122	213-222	38,6	48,3	58	145,3
GN 20	48	5	26,5	36	113-122	213-222	38,1	47,8	57,5	144,8
GN 20H	65	5	34,5	48	113-122	213-222	38,6	48,3	58	145,3
GN 25	48	5	26,5	36	113-122	213-222	42,5	56,1	69,7	192,1
GN 25H	65	5	34,5	48	113-122	213-222	43	56,6	70,2	192,6
GN 32	65	5	34,5	48	113-122	213-222	45,9	59,5	73,1	195,5
GN 32H	90	6	41,5	68	133-139	233-239	46,6	60,2	73,8	196,2
GN 40	65	5	34,5	48	113-122	213-222	48,5	63,6	78,7	214,6
GN 40H	90	6	41,5	68	133-139	233-239	49,2	64,3	79,4	215,3
GN 63	65	5	34,5	48	113-122	213-222	54,3	72,4	90,5	253,4
GN 63H	90	6	41,5	68	133-139	233-239	55	73,1	91,2	254,1
GN 125	90	6	41,5	68	135-141	235-241	74,8	103,9	133	394,9

* Za / For GN125 = 21
** Za / For GN125 = 39

Serijska / Series GF - 0

Tip Type	Oznaka / Marking						L			
	□A	D2	E	□K	X 102	X 102-200	1	2	3...12	
GF 20	48	5	26,5	36	113-122	213-222	46	59,5	73	194,5
GF 20H	65	5	34,5	48	113-122	213-222	46,5	60	73,5	195

Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L		
	□A	E	F	X 102	X 102-200	1	2	3...12	
GX 16	48	26,5	52	113-122	213-222	37	45,5	54	130,5
GX 16H	65	34,5	52	113-122	213-222	37	45,5	54	130,5
GX 20	48	26,5	52	113-122	213-222	37	45,5	54	130,5
GX 20H	65	34,5	52	113-122	213-222	37	45,5	54	130,5
GX 32	65	34,5	68	113-122	213-222	48	60	72	180
GX 32H	90	41,5	68	133-139	233-239	48	60	72	180
GX 40	65	34,5	68	113-122	213-222	48	60	72	180
GX 40H	90	41,5	68	133-139	233-239	48	60	72	180

Serijska GN/GF/GX / Series GN/GF/GX

KOD / CODE	IZVEDBA / VERSION
102	Standardna izvedba - osovina 100 mm Standard version - shaft 100 mm
102 - 200	Osovina 200 mm Shaft 200 mm

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*

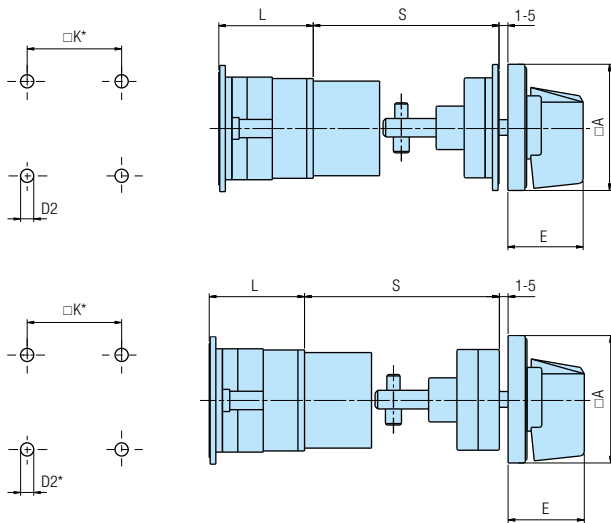


57, 58
58D

Otvaranje vrata u bilo kojem položaju (izvedba 57) ili samo u "0" (izvedba 58).
Montaža s 4 vijka (izvedbe 57, 58).
Montaža s 2 vijka (izvedba 58D).
Minimalna udaljenost od šarke 150 mm.

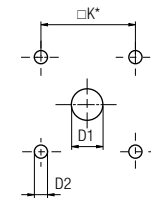
*Door-opening in any position (57) or only in "0" (58).
Mounting with 4 screws (optional extras 57, 58).
Mounting with 2 screws (optional extra 58D).
Minimal distance to the door-hinge 150 mm.*

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

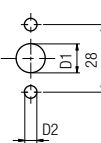


Plan bušenja / Drilling plan
Prednji lim / Front panel

57, 58



58D



Serijska / Series GN - 0

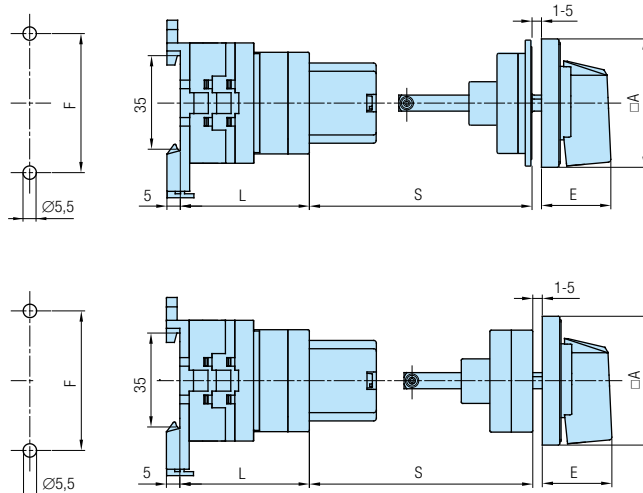
Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	$\square K$	S	1	2	3...12	
GN 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
GN 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
GN 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
GN 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
GN 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

* za / for GN63 D2*=6 $\square K^*=68$

Serijska / Series GF - 0

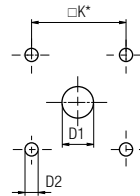
Tip Type	Oznaka / Marking						L			
	$\square A$	D1	D2	E	$\square K$	S	1	2	3...12	
GF 20	48	12	5	26,5	36	45-55	46	59,5	73	194,5

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

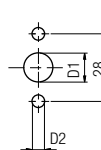


Plan bušenja / Drilling plan
Prednji lim / Front panel

57/58



58D



Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L				
	$\square A$	D1	D2	E	F	$\square K$	S	1	2	3...12	
GX 16	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 16H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 20	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 20H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 32	65	14	5	34,5	68	48	45-55	51	63	75	183
GX 40	65	14	5	34,5	68	48	45-55	51	63	75	183

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*



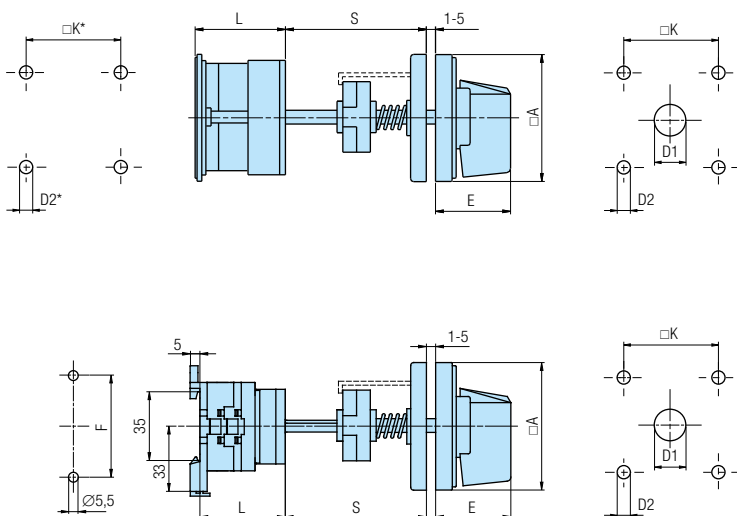
07
08

Otvaranje vrata u bilo kojem položaju (posebna izvedba 07) ili samo u "0" (posebna izvedba 08). Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Door-opening in any position (optional extra 07) or only in "0" (optional extra 08). When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip	Oznaka / Marking						L			
Type	□A	D1	D2	E	□K	S	1	2	3...12	
GN 12H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
GN 25H	65	12	5	34,5	48	60	45,5	59,1	72,7	195,1
GN 32	65	14	5	34,5	48	64	48,9	62,5	76,1	198,5
GN 32H	90	14	6	41,5	68	64	48,9	62,5	76,1	198,5
GN 40	65	14	5	34,5	48	64	51,5	66,6	81,7	217,6
GN 40H	90	14	6	41,5	68	64	51,5	66,6	81,7	217,6
GN 63*	65	14	5	34,5	48	64	57,3	75,4	93,5	256,4
GN 63H	90	14	6	41,5	68	64	57,3	75,4	93,5	256,4
GN 125	90	16	6	41,5	68	76	74,8	103,9	133	394,9

za / for GN63 D2*=6 □K*=68

Serijska / Series G/4G - 0

Tip	Oznaka / Marking						L							
Type	□A	D1	D2	E	□K	S	1	2	3	4	5	6	7	8
4G200	132	16	5,3	56,5	104	77	77	107	-	-	-	-	-	-
G315	132	16	5,3	56,5	104	77	77	107	-	-	-	-	-	-
4G400	132	16	5,3	56,5	104	77	-	107	-	166	-	-	-	-
G630	132	16	5,3	56,5	104	77	-	107	-	166	-	-	-	-
G900	132	16	5,3	56,5	104	77	-	-	136	-	-	226	-	-
G1200	132	16	5,3	56,5	104	77	-	107	-	166	-	-	-	-
G1600	132	16	5,3	56,5	104	77	-	-	136	-	-	226	-	-
G2000	132	16	5,3	56,5	104	77	-	-	-	166	-	-	-	314

Serijska / Series GX - 0

Tip	Oznaka / Marking						L				
Type	□A	D1	D2	E	F	□K	S	1	2	3...12	
GX 16H	65	12	5	34,5	52	48	60	40	48,5	57	133,5
GX 20H	65	12	5	34,5	52	48	60	40	48,5	57	133,5
GX 32	65	14	5	34,5	68	48	64	51	63	75	183
GX 32H	90	14	6	41,5	68	68	64	51	63	75	183
GX 40	65	14	5	34,5	68	48	64	51	63	75	183
GX 40H	90	14	6	41,5	68	68	64	51	63	75	183

SPOJKA ZA VRATA *DOOR COUPLING*



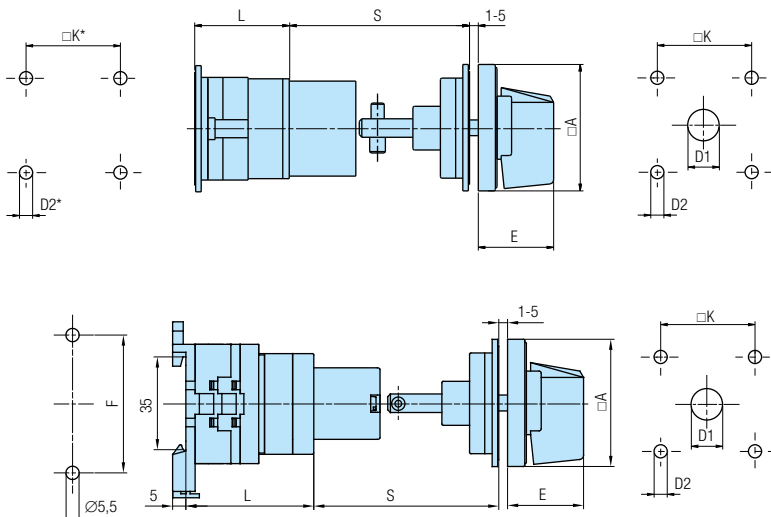
84

Otvaranje vrata samo u "0" položaju. Sklopka sa žutom prednjom pločom, žutom podlogom i crvenom ručicom. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Door-opening only in "0". Switch with yellow front plate, yellow escutcheon plate and red handle. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip	Oznaka / Marking						L			
Type	□A	D1	D2	E	□K	S	1	2	3...12	
GN 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
GN 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
GN 32	65	14	5	34,5	48	45-55	48,9	62,5	76,1	198,5
GN 40	65	14	5	34,5	48	45-55	51,5	66,6	81,7	217,6
GN 63*	65	14	5	34,5	48	45-55	57,3	75,4	93,5	256,4

za / for GN63 D2=6 □K*=68

Serijska / Series GF - 0

Tip	Oznaka / Marking						L			
Type	□A	D1	D2	E	□K	S	1	2	3...12	
GF 20	48	12	5	26,5	36	45-55	41	54,5	68	189,5

Serijska / Series GX - 0

Tip	Oznaka / Marking						L				
Type	□A	D1	D2	E	F	□K	S	1	2	3...12	
GX 16	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 16H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 20	48	12	5	26,5	52	36	45-55	40	48,5	57	133,5
GX 20H	65	12	5	34,5	52	48	45-55	40	48,5	57	133,5
GX 32	65	14	5	34,5	68	48	45-55	51	63	75	183
GX 40	65	14	5	34,5	68	48	45-55	51	63	75	183

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*

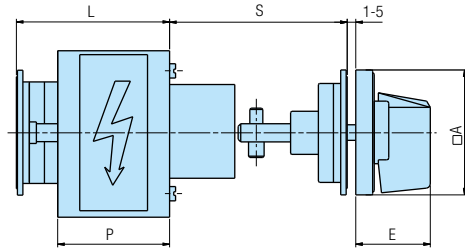
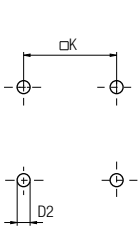


68

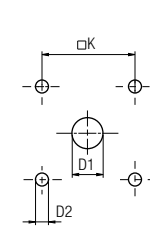
Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom, za sklopke sa samo dva elementa, samo u "0" položaju. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Door-opening only in "0". Protection against an accidental contact with terminals under voltage for the switches with only two elements in "0". When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serija / Series GN - 0

Tip Type	Oznaka / Marking							
	□A	D1	D2	E	□K	S	P	L
GN 12	48	12	5	26,5	36	45-55	43	51,3
GN 12H	65	12	5	34,5	48	45-55	43	51,3
GN 20	48	12	5	26,5	36	45-55	43	51,3
GN 20H	65	12	5	34,5	48	45-55	43	51,3
GN 25	48	12	5	26,5	36	45-55	51	59,6
GN 25H	65	12	5	34,5	48	45-55	51	59,6
GN 32	65	14	5	34,5	48	45-55	55	64,9
GN 40	65	14	5	34,5	48	45-55	55	68,7

SPOJKA ZA VRATA *DOOR COUPLING*

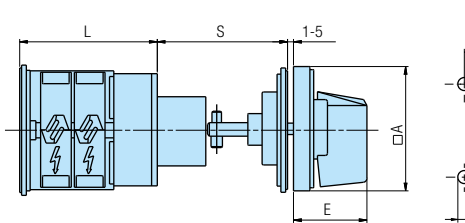
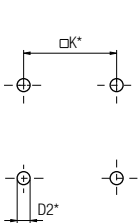


78

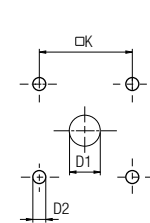
Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Standardno - zaštita dovodnih priključnih stezaljki (sklopke 0-1; 1-12 polne). Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Door-opening only in "0". Protection against an accidental contact with terminals under voltage only in "0" position. In a standard manner supplying terminals are protected (switches 0-1; 1-12 poles). When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serija / Series GN - 0

Tip Type	Oznaka / Marking									
	□A	D1	D2	E	□K	S	1	2	L	3...12
GN 12	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 12H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 20	48	12	5	26,5	36	45-55	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	45-55	41,1	50,8	60,5	147,8
GN 25	48	12	5	26,5	36	45-55	45,5	59,1	72,7	195,1
GN 25H	65	12	5	34,5	48	45-55	45,5	59,1	72,7	195,1
GN 40	65	14	5	34,5	48	45-55	48,5	63,6	78,7	214,6
GN 63*	65	14	5	34,5	48	45-55	54,3	72,4	90,5	253,4

za / for GN63 D2*=6 □K*=68

SPOJKA ZA VRATA *DOOR COUPLING*

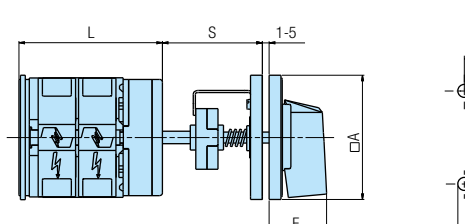
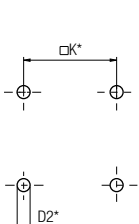


79

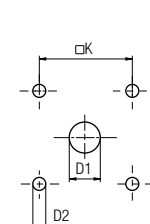
Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Standardno - zaštita dovodnih priključnih stezaljki (sklopke 0-1; 1-12 polne). Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Door-opening only in "0". Protection against an accidental contact with terminals under voltage only in "0" position. In a standard manner supplying terminals are protected (switches 0-1; 1-12 poles). When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serija / Series GN - 0

Tip Type	Oznaka / Marking									
	□A	D1	D2	E	□K	S	1	2	L	3...12
GN 12H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
GN 20H	65	12	5	34,5	48	60	41,1	50,8	60,5	147,8
GN 25H	65	12	5	34,5	48	60	45,5	59,1	72,7	195,1
GN 40	65	14	5	34,5	48	64	51,5	66,6	81,7	217,6
GN 40H	90	14	6	41,5	68	64	51,5	66,6	81,7	217,6
GN 63*	65	14	5	34,5	48	64	57,3	75,4	93,5	256,4
GN 63H	90	14	6	41,5	68	64	57,3	75,4	93,5	256,4
GN 125	90	16	6	41,5	68	76	74,8	103,9	133	394,9

za / for GN63 D2=6 □K*=68

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*

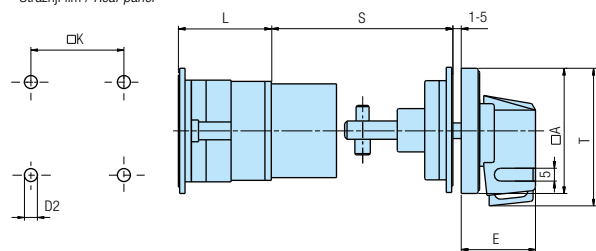


85

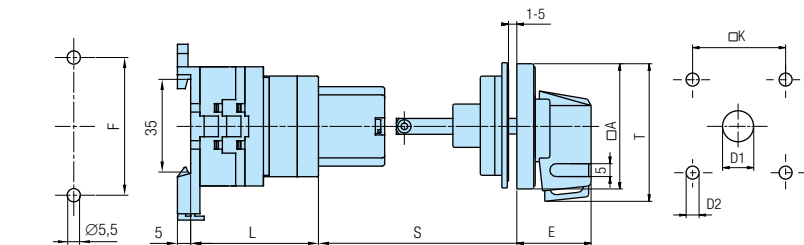
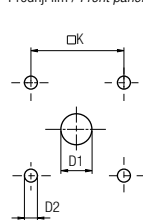
Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm. Moguće kombinacije boja prednjeg sklopa prikazane su u tablici na dnu stranice.

Padlocking (1 - 3) only in "0". Door-opening only in "0". When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm. Possible front part color combinations are show in the table on the bottom of the page.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking							L		
	□A	D1	D2	E	□K	S	T	1	2	3...12
GN 12	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5 147,8
GN 20	48	12	5	34,5	36	45-55	57	41,1	50,8	60,5 147,8
GN 25	48	12	5	34,5	36	45-55	57	45,5	59,1	72,7 195,1

Serijska / Series GF - 0

Tip Type	Oznaka / Marking							L		
	□A	D1	D2	E	□K	S	T	1	2	3...12
GF 20	48	12	5	34,5	36	45-55	57	41	54,5	68 189,5

Serijska / Series GX - 0

Tip Type	Oznaka / Marking							L			
	□A	D1	D2	E	F	□K	S	T	1	2	3...12
GX 16	48	12	5	34,5	52	36	45-55	57	40	48,5	57 133,5
GX 20	48	12	5	34,5	52	36	45-55	57	40	48,5	57 133,5

SPOJKA ZA VRATA *DOOR COUPLING*

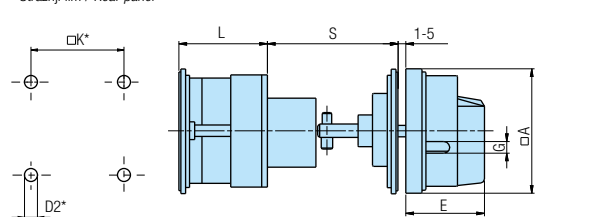


87

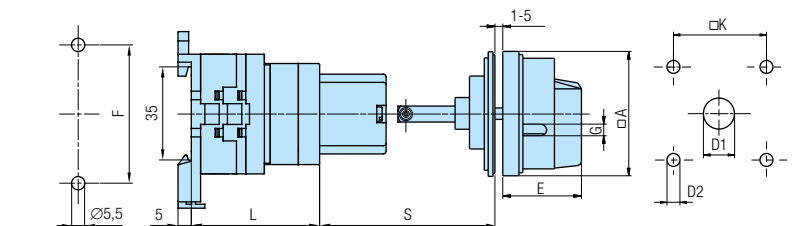
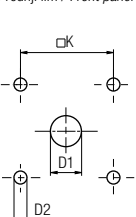
Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Koristi se kod sklopki 0-1 (60°, 90°). Moguća upotreba (60°) s većim brojem položaja (max. 6). Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm. Moguće kombinacije boja prednjeg sklopa prikazane su u tablici na dnu stranice.

Padlocking (1 - 3) only in "0". Door-opening only in "0". It is being used at the switches 0-1 (60°, 90°). Possible use (60°) with several positions (max. 6). When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm. Possible front part color combinations are show in the table on the bottom of the page.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking							L		
	□A	D1	D2	E	G	□K	S	1	2	3...12
GN 12	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5 147,8
GN 12H	65	12	5	38	6	48	45-55	41,1	50,8	60,5 147,8
GN 20	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5 147,8
GN 20H	65	12	5	38	6	48	45-55	41,1	50,8	60,5 147,8
GN 25	48	12	5	34,2	5	36	45-55	45,5	59,1	72,7 195,1
GN 25H	65	12	5	38	6	48	45-55	45,5	59,1	72,7 195,1
GN 32	65	14	5	38	6	48	45-55	48,9	62,5	76,1 198,5
GN 40	65	14	5	38	6	48	45-55	51,5	66,6	81,7 217,6
GN 63*	65	14	5	38	6	48	45-55	57,3	75,4	93,5 256,4

za / for GN63 D2=6 □K*=68

Serijska / Series GX - 0

Tip Type	Oznaka / Marking							L			
	□A	D1	D2	E	F	□K	G	S	1	2	3...12
GX 16	48	12	5	34,2	52	36	5	45-55	40	48,5	57 133,5
GX 16H	65	12	5	38	52	48	6	45-55	40	48,5	57 133,5
GX 20	48	12	5	34,2	52	36	5	45-55	40	48,5	57 133,5
GX 20H	65	12	5	38	52	48	6	45-55	40	48,5	57 133,5
GX 32	65	14	5	38	68	48	6	45-55	51	63	75 183
GX 40	65	14	5	38	68	48	6	45-55	51	63	75 183

Serijska / Series GN/GF/GX (85)

RUČICA HANDLE	PODLOGA ESCUTCH. PLATE	PREDNJA PLOČA FRONT PLATE	Y KOD / CODE
crna / black	bijela / white	crna / black	
siva / grey	bijela / white	siva / grey	20
crvena - žuta / red - yellow	žuta / yellow	žuta / yellow	40

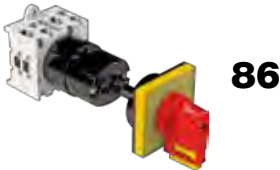
Serijska / Series GN/GF/GX (87)

RUČICA HANDLE	ČEONA PLOČA COVER PLATE	PREDNJA PLOČA FRONT PLATE	Y KOD / CODE
crna / black	crna / black	crna / black	
siva / grey	siva / grey	siva / grey	20
crvena / red	žuta / yellow	žuta / yellow	40

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

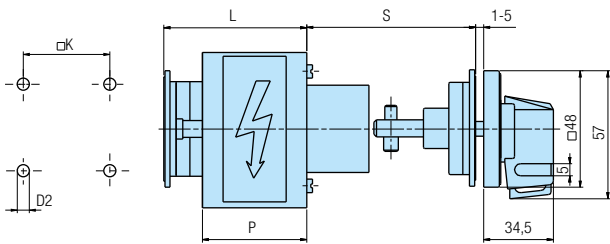


86

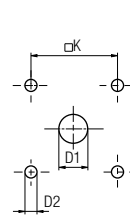
Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Kut zakreta 60° i 90°. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Padlocking (1 - 3) only in "0". Door-opening only in "0". Protection against an accidental contact with the terminals under voltage only in "0". Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



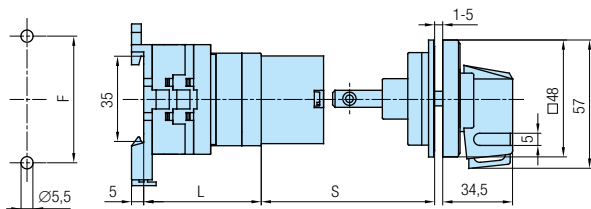
Serijska / Series GN - 0

Tip Type	Oznaka / Marking					
	D1	D2	□K	S	P	L
GN 12	12	5	36	45-55	43	51,3
GN 20	12	5	36	45-55	43	51,3
GN 25	12	5	36	45-55	51	59,6

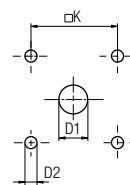
Serijska / Series GF - 0

Tip Type	Oznaka / Marking				L		
	D1	D2	□K	S	1	2	3...12
GF 20	12	5	36	45-55	41	54,5	68 189,5

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GX - 0

Tip Type	Oznaka / Marking				L		
	D1	D2	F	S	1	2	3...12
GX 16	12	5	52	36 45-55	40	48,5	57 133,5
GX 20	12	5	52	36 45-55	40	48,5	57 133,5

SPOJKA ZA VRATA *DOOR COUPLING*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

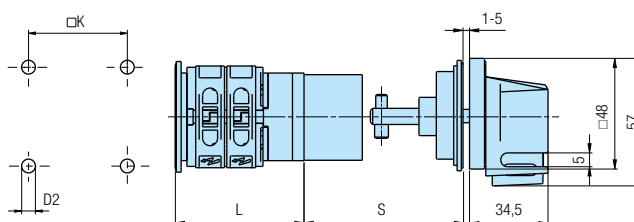


96

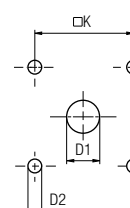
Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Kut zakreta 60° i 90°. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Padlocking (1 - 3) only in "0". Door-opening only in "0". Protection against an accidental contact with the terminals under voltage only in "0". Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking				L		
	D1	D2	□K	S	1	2	3...12
GN 12	12	5	36	45-55	41,1	50,8	60,5 147,8
GN 20	12	5	36	45-55	41,1	50,8	60,5 147,8
GN 25	12	5	36	45-55	45,5	59,1	72,7 195,1

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SPOJKA ZA VRATA *DOOR COUPLING*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



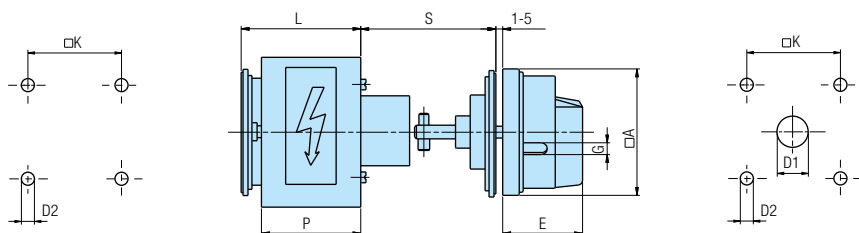
88

Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Kut zakreta 60° i 90°. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Padlocking (1 - 3) only in "0". Door-opening only in "0". Protection against an accidental contact with the terminals under voltage only in "0". Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking								
	□A	D1	D2	E	G	□K	S	P	L
GN 12	48	12	5	34,2	5	36	45-55	43	51,3
GN 12H	65	12	5	38	6	48	45-55	43	51,3
GN 20	48	12	5	34,2	5	36	45-55	43	51,3
GN 20H	65	12	5	38	6	48	45-55	43	51,3
GN 25	48	12	5	34,2	5	36	45-55	51	59,6
GN 25H	65	12	5	38	6	48	45-55	51	59,6
GN 32	65	14	5	38	6	48	45-55	55	64,9
GN 40	65	14	5	38	6	48	45-55	55	68,7

Serijska / Series GF - 0

Tip Type	Oznaka / Marking							L			
	□A	D1	D2	E	G	□K	S	1	2	3...12	
GF 20	48	12	5	34,2	5	36	45-55	46	59,5	73	194,5
GF 20H	65	12	5	38	6	48	45-55	47,5	61	74,5	196

Serijska / Series GX - 0

Tip Type	Oznaka / Marking											
	□A	D1	D2	E	F	□K	G	S	1	2	3...12	
GX 16	48	12	5	34,2	52	36	5	45-55	40	48,5	57	133,5
GX 16H	65	12	5	38	52	48	6	45-55	40	48,5	57	133,5
GX 20	48	12	5	34,2	52	36	5	45-55	40	48,5	57	133,5
GX 20H	65	12	5	38	52	48	6	45-55	40	48,5	57	133,5
GX 32	65	14	5	38	68	48	6	45-55	51	63	75	183
GX 40	65	14	5	38	68	48	6	45-55	51	63	75	183

SPOJKA ZA VRATA *DOOR COUPLING*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



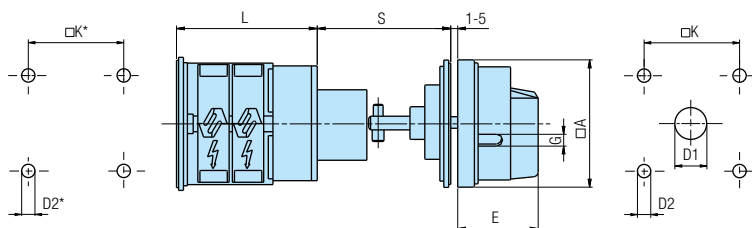
98

Zaključavanje (1 - 3 lokota) samo u "0". Otvaranje vrata samo u "0" položaju. Zaštita od slučajnog dodira stezaljki pod naponom samo u "0" položaju. Kut zakreta 60° i 90°. Ukoliko je traženi "S" veći od ponuđenog, potrebno je definirati "S" ili dubinu ormara (L + S). Minimalna udaljenost od šarke 150 mm.

Padlocking (1 - 3) only in "0". Door-opening only in "0". Protection against an accidental contact with the terminals under voltage only in "0". Switching angle 60° and 90°. When required "S" is bigger then offered, it is necessary to define "S" or depth of the board (L + S). Minimal distance to the door-hinge 150 mm.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking										
	□A	D1	D2	E	G	□K	S	1	2	3...12	
GN 12	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
GN 12H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
GN 20	48	12	5	34,2	5	36	45-55	41,1	50,8	60,5	147,8
GN 20H	65	12	5	38	6	48	45-55	41,1	50,8	60,5	147,8
GN 25	48	12	5	34,2	5	36	45-55	45,5	59,1	72,7	195,1
GN 25H	65	12	5	38	6	48	45-55	45,5	59,1	72,7	195,1
GN 40	65	14	5	38	6	48	45-55	51,5	66,6	81,7	217,6
GN 63*	65	14	5	38	6	48	45-55	57,3	75,4	93,5	256,4

za / for GN63 D2=6 □K*=68

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

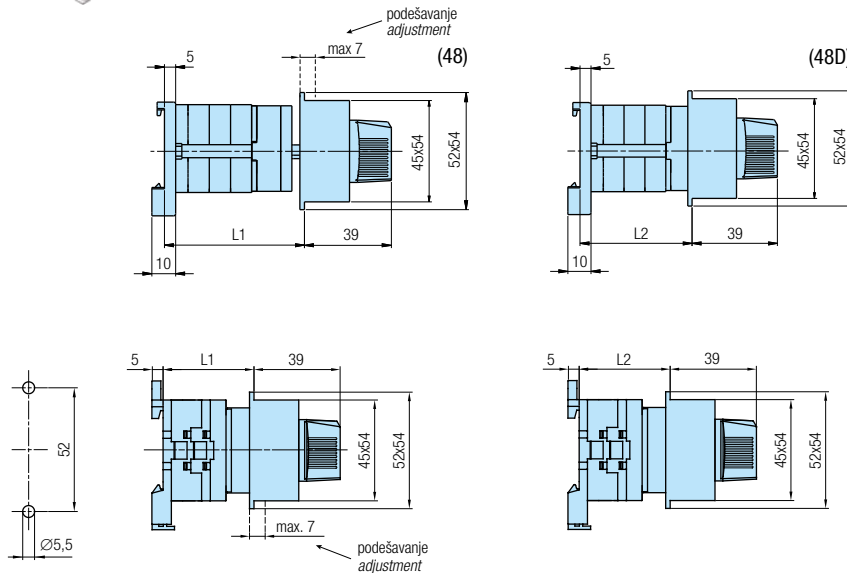
INSTALACIONA KAPA *SERVICE COVER*



48
48D

Montaža na šinu 35 EN 50022 s instalacionom kapom i ručicom za standardnu ugradnju u 45 mm. Podešavanje dužine L1 (izvedba 48). Fiksna dužina L2 (izvedba 48D).

Snap-on base mounting for the rail 35 EN 50022. Both the service cover (45 mm) and handle are adjustable in height (optional extra 48). Fixed measure L2 (optional extra 48D).



Serijska / Series GN - 0

Tip Type	L1			L2		
	1	2	3	1	2	3
GN 12	41-48	51-58	60-67	38,1	47,8	57,5
GN 20	41-48	51-58	60-67	38,1	47,8	57,5
GN 25	45-52	59-66	72-79	42,5	56,1	69,7

Serijska / Series GF - 0

Tip Type	L1			L2		
	1	2	3	1	2	3
GF 20	49-56	62-69	76-83	40	53,5	67

Serijska / Series GX - 0

Tip Type	L1			L2		
	1	2	3	1	2	3
GX 16	39,5-46,5	48-55	56,5-63,5	33	41,5	50
GX 20	39,5-46,5	48-55	56,5-63,5	33	41,5	50

Serijska / Series GN/GF/GX

RUČICA HANDLE	Y KOD / CODE
crna / black	
crvena / red	40

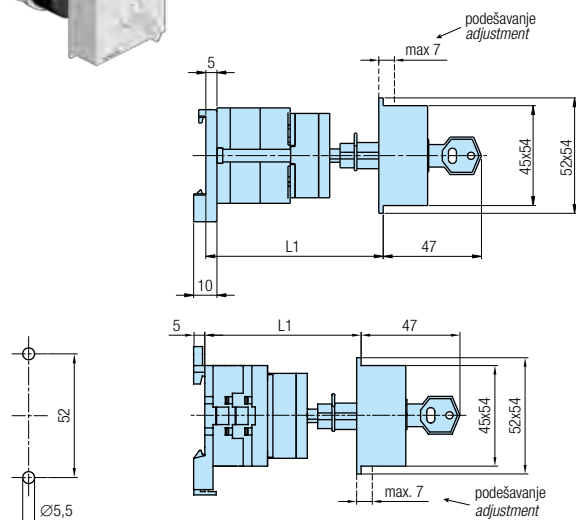
INSTALACIONA KAPA *SERVICE COVER*



49

Montaža na šinu 35 EN 50022 s instalacionom kapom i ključem za standardnu ugradnju u 45 mm.

Snap-on base mounting for the rail 35 EN 50022 with the service cover (45 mm) and key are adjustable in height.



Serijska / Series GN - 0

Tip Type	L1		
	1	2	3
GN 12	59-66	69-76	78-85
GN 20	59-66	69-76	78-85
GN 25	63-70	77-84	90-97

Serijska / Series GF - 0

Tip Type	L1		
	1	2	3
GF 20	67-74	80-87	97-101

Serijska / Series GX - 0

Tip Type	L1		
	1	2	3
GX 16	57,5-64,5	66-73	74,5-81,5
GX 20	57,5-64,5	66-73	74,5-81,5

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

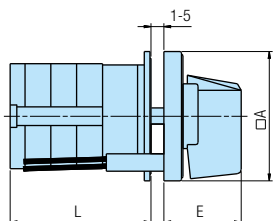
SIGNALNE SVJETILJKE *SIGNAL LAMPS*



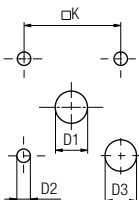
15

Standardno se ugrađuje crvena svjetiljka (230 V), desno dolje. Mogući naponi 110 i 400 V kao i zelena boja svjetiljke (potrebno definirati). Na poseban zahtjev ugrađujemo i drugu svjetiljku lijevo dolje.

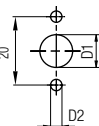
In a standard manner, the red lamp (230 V) is built in the right bottom corner. Possible voltages are 110 and 400 V and green lamp, too (please define). On special request second lamp can be built in the left bottom corner.



Plan bušenja / Drilling plan
Prednji lim / Front panel



GF10H



Serijska / Series GN - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	K	1	2	3...12		
GN 12	48	12	5	6,5	26,5	36	33,1	42,8	52,5	139,8	
GN 12H	65	12	5	6,5	34,5	48	33,6	43,3	53	140,3	
GN 20	48	12	5	6,5	26,5	36	33,1	42,8	52,5	139,8	
GN 20H	65	12	5	6,5	34,5	48	33,6	43,3	53	140,3	
GN 25	48	12	5	6,5	26,5	36	37,5	51,1	64,7	187,1	
GN 25H	65	12	5	6,5	34,5	48	38	51,6	65,2	187,6	
GN 32	65	14	5	6,5	34,5	48	40,9	55,2	68,1	190,5	
GN 32H	90	14	6	9,5	41,5	68	43,6	58,6	68,8	191,2	
GN 40	65	14	5	6,5	34,5	48	43,5	63,6	73,4	209,6	
GN 40H	90	14	6	9,5	41,5	68	44,2	59,3	74,4	210,3	
GN 63	65	14	5	6,5	34,5	48	47,3	65,4	83,5	246,4	
GN 63H	90	14	6	9,5	41,5	68	48	66,1	84,2	247,1	
GN 125	90	16	6	9,5	41,5	68	67,3	96,4	125,5	387,4	

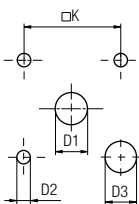
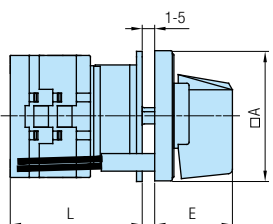
Serijska / Series GF - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	K	1	2	3...12		
GF 10H*	48	12	5	6,5	26,5	36	40	52	64	-	
GF 20	48	12	5	6,5	26,5	36	41	54,5	68	189,5	
GF 20H	65	12	5	6,5	34,5	48	41,5	55	68,5	190	

*GF10H max. 8 elem.

Serijska / Series G/4G - U

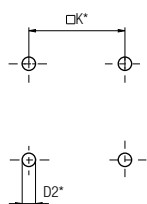
Tip Type	Oznaka / Marking						L											
	A	D1	D2	D3	E	K	1	2	3	4	5	6	7	8	9	10	11	12
4G200	132	16	5,3	6,5	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432
G315	132	16	5,3	6,5	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432
4G400	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G630	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G900	132	16	5,3	6,5	62,5	104	-	-	136	-	-	226	-	-	343	-	-	432
G1200	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	-	-	373	-	432
G1600	132	16	5,3	6,5	62,5	104	-	-	136	-	-	226	-	-	343	-	-	432
G2000	132	16	5,3	6,5	62,5	104	-	-	-	166	-	-	-	314	-	-	-	432



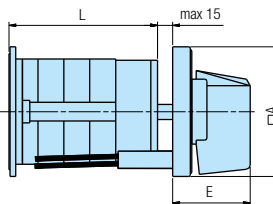
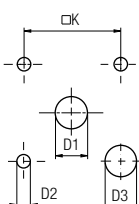
Serijska / Series GX - U

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	K	1	2	3...12		
GX 16	48	12	5	6,5	26,5	36	40	48,5	57	133,5	
GX 16H	65	12	5	6,5	34,5	48	40,5	49	57,5	134	
GX 20	48	12	5	6,5	26,5	36	40	48,5	57	133,5	
GX 20H	65	12	5	6,5	34,5	48	40,5	49	57,5	134	
GX 32	65	14	5	6,5	34,5	48	48	60	72	180	
GX 40	65	14	5	6,5	34,5	48	48	60	72	180	

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - 0

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	K	1	2	3...12		
GN 12	48	12	5	6,5	26,5	36	38,1	47,8	57,5	144,8	
GN 12H	65	12	5	6,5	34,5	48	38,6	48,3	58	145,3	
GN 20	48	12	5	6,5	26,5	36	38,1	47,8	57,5	144,8	
GN 20H	65	12	5	6,5	34,5	48	38,6	48,3	58	145,3	
GN 25	48	12	5	6,5	26,5	36	42,5	56,1	69,7	192,1	
GN 25H	65	12	5	6,5	34,5	48	43	56,6	70,2	192,6	
GN 32	65	14	5	6,5	34,5	48	45,9	59,5	73,1	195,5	
GN 32H	90	14	6	9,5	41,5	68	46,6	60,2	73,8	196,2	
GN 40	65	14	5	6,5	34,5	48	48,5	63,6	78,7	214,6	
GN 40H	90	14	6	9,5	41,5	68	49,2	64,3	79,4	215,3	
GN 63*	65	14	5	6,5	34,5	48	54,3	72,4	90,5	253,4	
GN 63H	90	14	6	9,5	41,5	68	55	73,1	91,2	254,1	
GN 125	90	16	6	9,5	41,5	68	74,8	103,9	133	394,9	

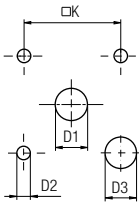
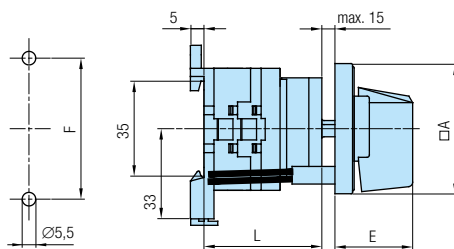
za / for G63 D2=6 OK*=68

Serijska / Series GF - 0

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	K	1	2	3...12		
GF 20	48	12	5	6,5	26,5	36	46	59,5	73	194,5	
GF 20H	65	12	5	6,5	34,5	48	47	60,5	74	195,5	

Serijska / Series G/4G - 0

Tip Type	Oznaka / Marking						L											
	A	D1	D2	D3	E	K	1	2	3	4	5	6	7	8	9	10	11	12
4G200	132	16	5,3	6,5	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432
G315	132	16	5,3	6,5	62,5	104	77	107	136	166	196	226	284	314	343	373	402	432
4G400	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G630	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	314	-	373	-	432
G900	132	16	5,3	6,5	62,5	104	-	-	136	-	-	226	-	-	343	-	-	432
G1200	132	16	5,3	6,5	62,5	104	-	107	-	166	-	226	-	-	-	373	-	432
G1600	132	16	5,3	6,5	62,5	104	-	-	136	-	-	226	-	-	343	-	-	432
G2000	132	16	5,3	6,5	62,5	104	-	-	-	166	-	-	-	314	-	-	-	432



Serijska / Series GX - 0

Tip Type	Oznaka / Marking						L				
	A	D1	D2	D3	E	F	K	1	2	3...12	
GX 16	48	12	5	6,5	26,5	52	36	40	48,5	57	133,5
GX 16H	65	12	5	6,5	34,5	52	48	40,5	49	57,5	134
GX 20	48	12	5	6,5	26,5	52	36	40	48,5	57	133,5
GX 20H	65	12	5	6,5	34,5	52	48	40,5	49	57,5	134
GX 32	65	14	5	6,5	34,5	68	48	48	60	72	180
GX 40	65	14	5	6,5	34,5	68	48	48	60	72	180

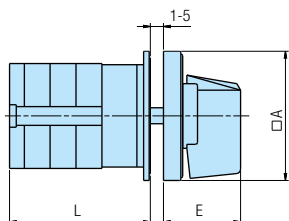
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

BLOKIRANJE SMJERA OKRETANJA *BLOCKADE OF THE ROTATION DIRECTION*

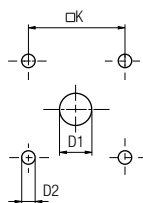


28

Blokiranje lijevog smjera okretanja.
The left direction is blocked.



Plan bušenja / Drilling plan
Prednji lim / Front panel

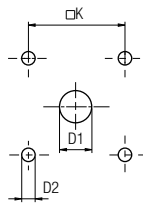
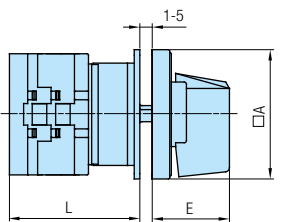


Serijska / Series GN - U

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GN 12	48	12	5	26,5	36	33,1	42,8	52,5	139,8
GN 12H	65	12	5	34,5	48	33,6	43,3	53	140,3
GN 20	48	12	5	26,5	36	33,1	42,8	52,5	139,8
GN 20H	65	12	5	34,5	48	33,6	43,3	53	140,3
GN 25	48	12	5	26,5	36	37,5	51,1	64,7	187,1
GN 25H	65	12	5	34,5	48	38	51,6	65,2	187,6
GN 32	65	14	5	34,5	48	40,9	54,5	68,1	190,5
GN 32H	90	14	6	41,5	68	41,6	55,2	68,8	191,2
GN 40	65	14	5	34,5	48	43,5	58,6	73,7	209,6
GN 40H	90	14	6	41,5	68	44,2	59,3	74,4	210,3
GN 63	65	14	5	34,5	48	47,3	65,4	83,5	246,4
GN 63H	90	14	6	41,5	68	48	66,1	84,2	247,1

Serijska / Series GF - U

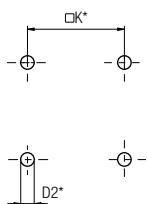
Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GF 20	48	12	5	26,5	36	46	59,5	73	194,5



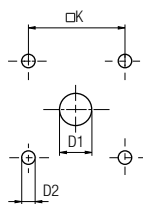
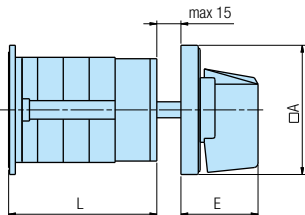
Serijska / Series GX - U

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GX 16	48	12	5	26,5	36	40	48,5	57	133,5
GX 16H	65	12	5	34,5	48	40,5	49	57,5	134
GX 20	48	12	5	26,5	36	40	48,5	57	133,5
GX 20H	65	12	5	34,5	48	40,5	49	57,5	134
GX 32	65	14	5	34,5	48	48	60	72	180
GX 32H	90	14	6	41,5	68	50	62	74	182
GX 40	65	14	5	34,5	48	48	60	72	180
GX 40H	90	14	6	41,5	68	50	62	74	182

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - O

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 12H	65	12	5	34,5	48	38,6	48,3	58	145,3
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 20H	65	12	5	34,5	48	38,6	48,3	58	145,3
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
GN 25H	65	12	5	34,5	48	43	56,6	70,2	192,6
GN 32	65	14	5	34,5	48	45,9	59,5	73,1	195,5
GN 32H	90	14	6	41,5	68	46,6	60,2	73,8	196,2
GN 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6
GN 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3
GN 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4
GN 63H	90	14	6	41,5	68	55	73,1	91,2	254,1

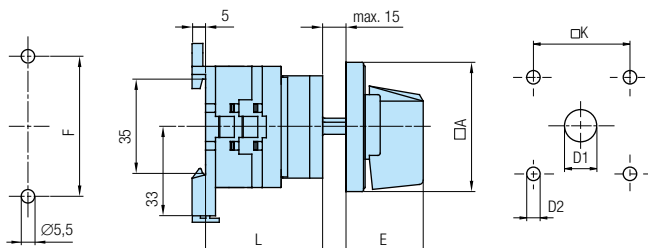
za / for GN63 D2=6 □K*=68

Serijska / Series GF - O

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GF 20	48	12	5	26,5	36	46	59,5	73	194,5

Serijska / Series GX - O

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	F	□K	1	2	3...12	
GX 16	48	12	5	26,5	52	36	37	45,5	54	130,5
GX 16H	65	12	5	34,5	52	48	37	45,5	54	130,5
GX 20	48	12	5	26,5	52	36	37	45,5	54	130,5
GX 20H	65	12	5	34,5	52	48	37	45,5	54	130,5
GX 32	65	14	5	34,5	68	48	48	60	72	180
GX 32H	90	14	6	41,5	68	68	48	60	72	180
GX 40	65	14	5	34,5	68	48	48	60	72	180
GX 40H	90	14	6	41,5	68	68	48	60	72	180



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

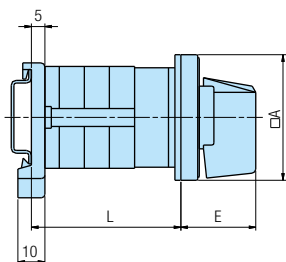
NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*



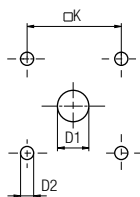
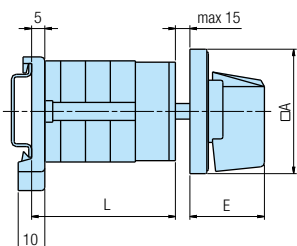
18

Montaža na šinu 35 EN 50022.

Mounting on the rail 35 EN 50022.



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking		L			
	□A	E	1	2	3...12	
GN 12	48	26,5	38,1	47,8	57,5	144,8
GN 12H	65	34,5	38,6	48,3	58	145,3
GN 20	48	26,5	38,1	47,8	57,5	144,8
GN 20H	65	34,5	38,6	48,3	58	145,3
GN 25	48	26,5	42,5	56,1	69,7	192,1
GN 25H	65	34,5	43	56,6	70,2	192,6
GN 32	65	34,5	45,9	59,5	73,1	195,5
GN 32H	90	41,5	46,6	60,2	73,8	196,2
GN 40	65	34,5	48,5	63,6	78,7	214,6
GN 40H	90	41,5	49,2	64,3	79,4	215,3
GN 63	65	34,5	52,3	70,4	88,5	251,4
GN 63H	90	41,5	53	71,1	89,2	252,1

Serijska / Series GF - U

Tip Type	Oznaka / Marking		L			
	□A	E	1	2	3...12	
GF 20	48	26,5	38,1	47,8	57,5	144,8
GF 20H	65	34,5	38,6	48,3	58	145,3

Serijska / Series GN - O

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 12H	65	12	5	34,5	48	38,1	47,8	57,5	144,8
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 20H	65	12	5	34,5	48	38,1	47,8	57,5	144,8
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
GN 25H	65	12	5	34,5	48	42,5	56,1	69,7	192,1
GN 32	65	14	5	34,5	48	46,4	60	73,6	196
GN 32H	90	14	6	41,5	68	46,4	60	73,6	196
GN 40	65	14	5	34,5	48	49	64,1	79,2	215,1
GN 40H	90	14	6	41,5	68	49	64,1	79,2	215,1
GN 63	65	14	5	34,5	48	52,8	70,9	89	251,9
GN 63H	90	14	6	41,5	68	52,8	70,9	89	251,9

Serijska / Series GF - O

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GF 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GF 20H	65	12	5	34,5	48	38,1	47,8	57,5	144,8

NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*

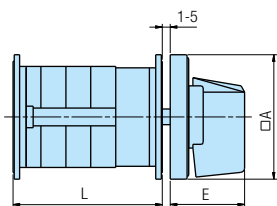
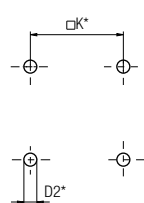


40

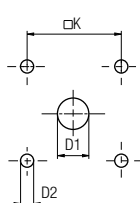
Montaža sprijeda - straga.

Front - rear mounting.

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking					L			
	□A	D1	D2	E	□K	1	2	3...12	
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 12H	65	12	5	34,5	48	39,1	48,8	58,5	145,8
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 20H	65	12	5	34,5	48	39,1	48,8	58,5	145,8
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
GN 25H	65	12	5	34,5	48	43,5	57,1	70,7	193,1
GN 32	65	14	5	34,5	48	46,4	60	73,6	196
GN 32H	90	14	6	41,5	68	48,4	62	75,6	198
GN 40	65	14	5	34,5	48	49	64,1	79,2	215,1
GN 40H	90	14	6	41,5	68	51,7	66,8	81,9	217,8
GN 63*	65	14	5	34,5	48	52,8	70,9	89	251,9
GN 63H	90	14	6	41,5	68	60,3	78,4	96,5	259,4
GN 125	90	16	6	41,5	68	74,8	103,9	133	394,9

za / for GN63 D2=6 □K*=68

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*

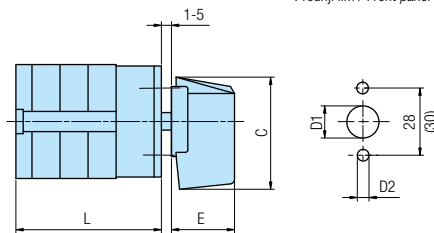


38D
38T

Montaža s dva vijka M4 na razmaku 28 mm (izvedba 38D), odnosno na razmaku 30 mm (izvedba 38T), bez prednje ploče.

Mounting by two screws M4 at a distance 28 mm (optional extra 38D), or at a distance 30 mm (optional extra 38T), without front plate.

Plan bušenja / Drilling plan
Prednji lim / Front panel



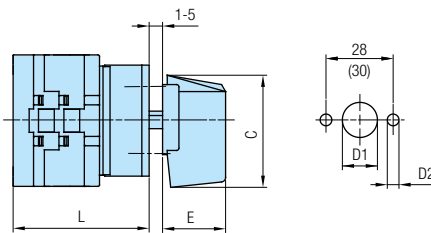
Serijska / Series GN - U

Tip Type	Oznaka / Marking				L							
	C	D1	D2	E	1	2	3	4	5	6	7	8
GN 12	39,5	12	5	19	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN 20	39,5	12	5	19	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN 25	39,5	12	5	19	40,5	54,1	67,7	81,3	94,9	108,5	122,1	135,7
GN 32*	53	14	5	25	43,9	57,5	71,1	84,7	98,3	111,9	-	-
GN 40*	53	14	5	25	46,5	61,6	76,7	91,8	106,9	122	-	-
GN 63*	53	14	5	25	50,3	68,4	86,5	104,6	122,7	140,8	-	-

*Nije moguće u izvedbi 38T / Not possible for optional extra 38T

Serijska / Series GF - U

Tip Type	Oznaka / Marking				L							
	C	D1	D2	E	1	2	3	4	5	6	7	8
GF 20	39,5	12	5	19	44	57,5	71	84,5	98	111,5	125	138,5



Serijska / Series GX - U

Tip Type	Oznaka / Marking				L							
	C	D1	D2	E	1	2	3	4	5	6	7	8
GX 16	39,5	12	5	19	43	51,5	60	68,5	77	85,5	94	102,5
GX 20	39,5	14	5	19	43	51,5	60	68,5	77	85,5	94	102,5
GX 32*	53	14	5	25	50,5	62,5	74,5	86,5	98,5	110,5	-	-
GX 40*	53	14	5	25	50,5	62,5	74,5	86,5	98,5	110,5	-	-

*Nije moguće u izvedbi 38T / Not possible for optional extra 38T

NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*

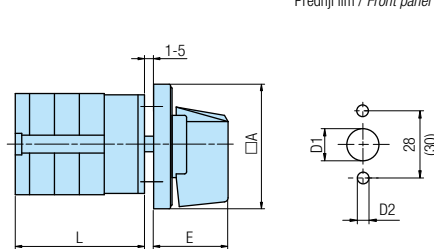


39D
39T

Montaža s dva vijka M4 na razmaku 28 mm (izvedba 39D), odnosno na razmaku 30 mm (izvedba 39T), s prednjom pločom.

Mounting by two screws M4 at a distance 28 mm (optional extra 39D), or at a distance 30 mm (optional extra 39T), with front plate.

Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	□A	Oznaka / Marking			L							
		D1	D2	E	1	2	3	4	5	6	7	8
GN 12	48	12	5	26,5	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN12H*	65	14	5	34,5	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN 20	48	12	5	26,5	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN20H*	65	14	5	34,5	36,1	45,8	55,5	65,2	74,9	84,6	94,3	104
GN 25	48	12	5	26,5	40,5	54,1	67,7	81,3	94,9	108,5	122,1	135,7
GN25H*	65	14	5	34,5	40,5	54,1	67,7	81,3	94,9	108,5	122,1	135,7
GN 32*	65	14	5	34,5	43,9	57,5	71,1	84,7	98,3	111,9	-	-
GN 40*	65	14	5	34,5	46,5	61,6	76,7	91,8	106,9	122	-	-
GN 63*	65	14	5	34,5	50,3	68,4	86,5	104,6	122,7	140,8	-	-

*Nije moguće u izvedbi 39T / Not possible for optional extra 39T

Serijska / Series GF - U

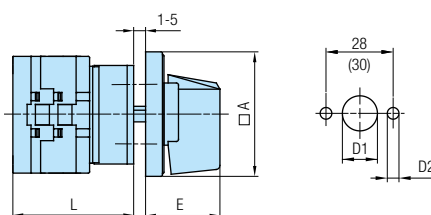
Tip Type	□A	Oznaka / Marking			L							
		D1	D2	E	1	2	3	4	5	6	7	8
GF 20	48	12	5	26,5	44	57,5	71	84,5	98	111,5	125	138,5
GF20H*	65	14	5	34,5	44,5	58	71,5	85	98,5	112	125,5	139

*Nije moguće u izvedbi 39T / Not possible for optional extra 39T

Serijska / Series GX - U

Tip Type	□A	Oznaka / Marking			L							
		D1	D2	E	1	2	3	4	5	6	7	8
GX 16	48	12	5	26,5	43	51,5	60	68,5	77	85,5	94	102,5
GX 16H*	65	12	5	34,5	43,5	52	60,5	69	77,5	86	94,5	103
GX 20	48	12	5	26,5	43	51,5	60	68,5	77	85,5	94	102,5
GX 20H*	65	12	5	34,5	43,5	52	60,5	69	77,5	86	94,5	103
GX 32*	65	14	5	34,5	50,5	62,5	74,5	86,5	98,5	110,5	-	-
GX 40*	65	14	5	34,5	50,5	62,5	74,5	86,5	98,5	110,5	-	-

*Nije moguće u izvedbi 39T / Not possible for optional extra 39T



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*

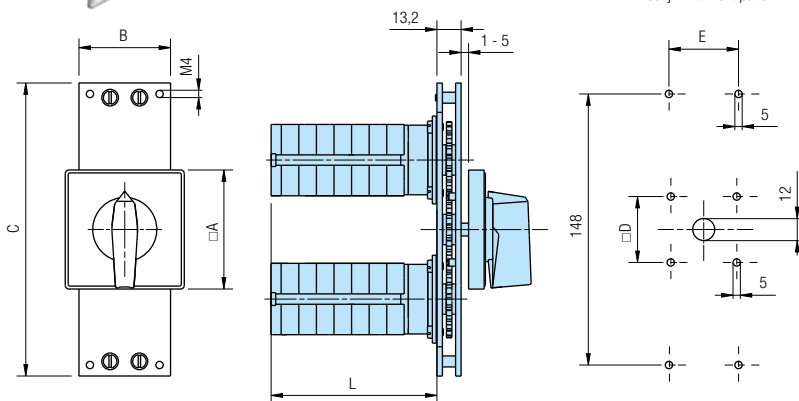
34

Paralelni pogon dvije ili tri sklopke.

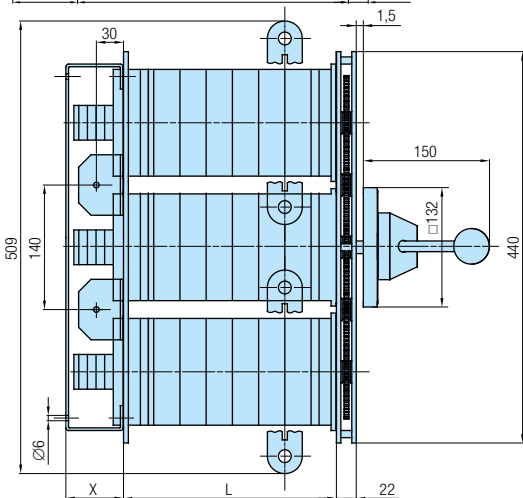
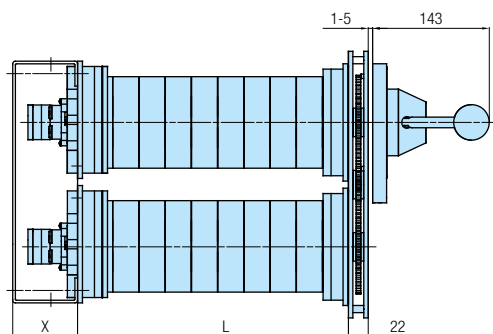
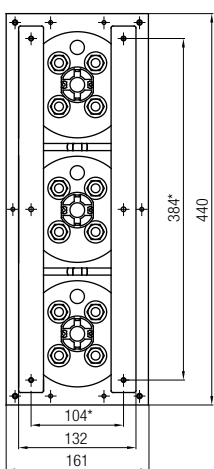
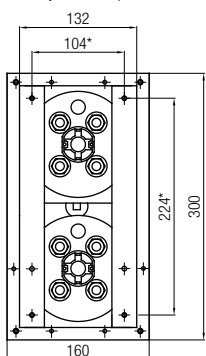
Two or three columns switches can be operated simultaneously.



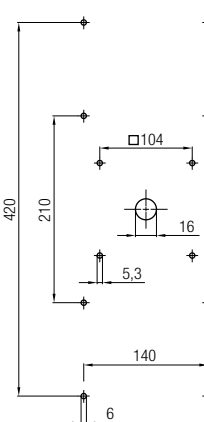
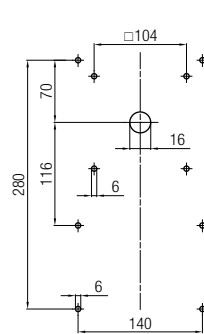
Plan bušenja / Drilling plan
Prednji lim / Front panel



Plan bušenja* / Drilling plan*
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking										
	A	B	C	D	E	1	2	L	3...12		
GN 12	65	50	160	36	38	33,1	42,8	52,5	139,8		
GN 20	65	50	160	36	38	33,1	42,8	52,5	139,8		
GN 25	65	50	160	36	38	37,5	51,1	64,7	187,1		
GN 32	90	65	160	48	53	40,9	54,5	68,1	190,5		
GN 40	90	65	160	48	53	43,5	58,6	73,7	209,6		
GN 63	90	65	160	48	53	47,3	65,4	83,5	246,4		
GN 125	90	65	160	48	53	67,3	96,4	125,5	395,9		

Serijska / Series G/4G - U

Tip Type	L											
	1	2	3	4	5	6	7	8	9	10	11	12
4G200	67	97	126	156	186	216	274	304	363	363	392	422
G315	57	97	156	156	186	226	274	304	363	363	392	422
4G400	-	97	-	156	-	226	-	304	-	363	-	422
G630	-	97	-	156	-	226	-	304	-	363	-	422
G900	-	-	156	-	-	226	-	-	363	-	-	422
G1200	-	97	-	156	-	226	-	304	-	363	-	422
G1600	-	-	156	-	-	226	-	-	363	-	-	422
G2000	-	-	-	166	-	-	-	304	-	-	-	422

X	Broj elemenata / Number of elements											
	1	2	3	4	5	6	7	8	9	10	11	12
	70			100					130			160

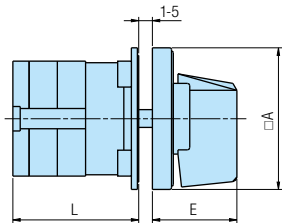
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

NESTANDARDNA MONTAŽA *NON-STANDARD MOUNTING*

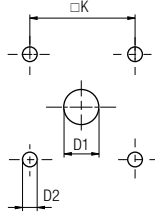


31

Montaža s četiri umetnute matice.
Mounting by four inserted nuts.



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



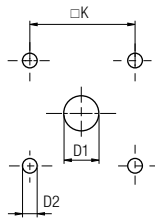
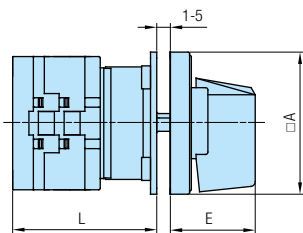
Seriya / Series GN - U

Tip Type	Oznaka / Marking					L	
	□A	D1	D2	E	□K	1	2
GN 12	48	12	5	26,5	36	33,1	42,8
GN 12H	65	12	5	34,5	48	33,6	43,3
GN 20	48	12	5	26,5	36	33,1	42,8
GN 20H	65	12	5	34,5	48	33,6	43,3
GN 25	48	12	5	26,5	36	37,5	51,1
GN 25H	65	12	5	34,5	48	38	51,6
GN 32	65	14	5	34,5	48	40,9	54,5
GN 32H	90	14	6	41,5	68	41,6	55,2
GN 40	65	14	5	34,5	48	43,5	58,6
GN 40H	90	14	6	41,5	68	44,2	59,3
GN 63	65	14	5	34,5	48	47,3	65,4
GN 63H	90	14	6	41,5	68	48	66,1
GN 125	90	16	6	41,5	68	67,3	96,4

za / for GN63 D2=6 □K*=68

Seriya / Series GF - U

Tip Type	Oznaka / Marking					L	
	□A	D1	D2	E	□K	1	2
GF 20	48	12	5	26,5	36	41	54,5
GF 20H	65	12	5	34,5	48	42	55,5



Seriya / Series GX - U

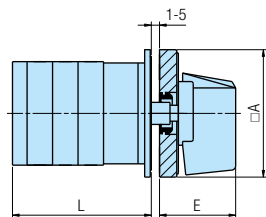
Tip Type	Oznaka / Marking					L	
	□A	D1	D2	E	□K	1	2
GX 16	48	12	5	26,5	36	40	48,5
GX 16H	65	12	5	34,5	48	40,5	49
GX 20	48	12	5	26,5	36	40	48,5
GX 20H	65	12	5	34,5	48	40,5	49
GX 32	65	14	5	34,5	48	48	60
GX 32H	90	14	6	41,5	68	50	62
GX 40	65	14	5	34,5	48	48	60
GX 40H	90	14	6	41,5	68	50	62

POVEĆANI STUPANJ ZAŠTITE *INCREASED PROTECTION DEGREE*

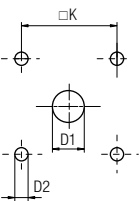


01

Zaštita sprijeda IP54.
Front protection IP54.



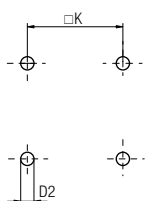
Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



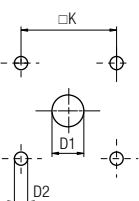
Seriya / Series G/4G - U

Tip Type	Oznaka / Marking					L							
	□A	D1	D2	E	□K	1	2	3	4	5	6	7	8
4G200	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
G315	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
4G400	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G630	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G900	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G1200	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G1600	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G2000	132	16	5,3	56,5	104	-	-	-	166	-	-	-	314

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



Seriya / Series G/4G - 0

Tip Type	Oznaka / Marking					L							
	□A	D1	D2	E	□K	1	2	3	4	5	6	7	8
4G200	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
G315	132	16	5,3	56,5	104	77	107	-	-	-	-	-	-
4G400	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G630	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G900	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G1200	132	16	5,3	56,5	104	-	107	-	166	-	-	-	-
G1600	132	16	5,3	56,5	104	-	-	136	-	-	226	-	-
G2000	132	16	5,3	56,5	104	-	-	-	166	-	-	-	314

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

POVEĆANI STUPANJ ZAŠTITE *INCREASED PROTECTION DEGREE*

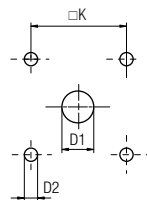
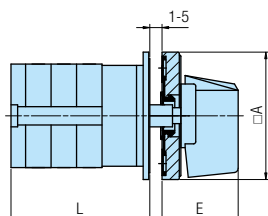


51

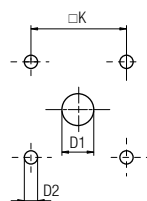
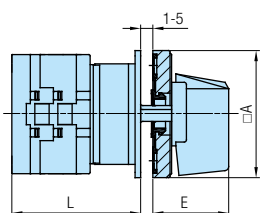
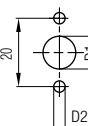
Zaštita sprijeda IP65.

Front protection IP65.

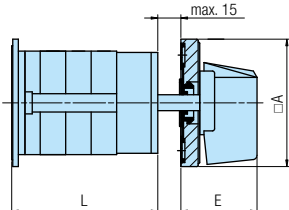
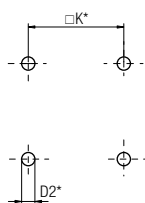
Plan bušenja / Drilling plan
Prednji lim / Front panel



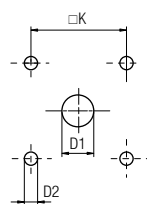
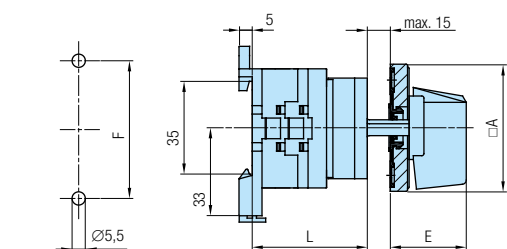
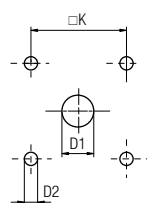
GF10
GF20R



Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking					L			
	A	D1	D2	E	K	1	2	3...12	
GN 12	48	12	5	26,5	36	33,1	42,8	52,5	139,8
GN 12H	65	12	5	34,5	48	33,6	43,3	53	140,3
GN 20	48	12	5	26,5	36	33,1	42,8	52,5	139,8
GN 20H	65	12	5	34,5	48	33,6	43,3	53	140,3
GN 25	48	12	5	26,5	36	37,5	51,1	64,7	187,1
GN 25H	65	12	5	34,5	48	38	51,6	65,2	187,6
GN 32	65	14	5	34,5	48	40,9	54,5	68,1	190,5
GN 32H	90	14	6	41,5	68	41,6	55,2	68,8	191,2
GN 40	65	14	5	34,5	48	43,5	58,6	73,7	209,6
GN 40H	90	14	6	41,5	68	44,2	59,3	74,4	210,3
GN 63	65	14	5	34,5	48	47,3	65,4	83,5	246,4
GN 63H	90	14	6	41,5	68	48	66,1	84,2	247,1
GN 125	90	16	6	41,5	68	67,3	96,4	125,5	394,9

Serijska / Series GF - U

Tip Type	Oznaka / Marking					L			
	A	D1	D2	E	K	1	2	3...12	
GF 10*	30	9	3,2	18,5	-	40	52	64	-
GF 20	48	12	5	26,5	36	41	54,5	68	189,5
GF 20R*	30	9	3,2	18,5	-	33,6	53,5	67	-

*GF10 max. 8 elem., GF20R max. 6 elem.

Serijska / Series GX - U

Tip Type	Oznaka / Marking					L			
	A	D1	D2	E	K	1	2	3...12	
GX 16	48	12	5	26,5	36	40	48,5	57	133,5
GX 16H	65	12	5	34,5	48	40,5	49	57,5	134
GX 20	48	12	5	26,5	36	40	48,5	57	133,5
GX 20H	65	12	5	34,5	48	40,5	49	57,5	134
GX 32	65	14	5	34,5	48	48	60	72	180
GX 32H	90	14	6	41,5	68	50	62	74	182
GX 40	65	14	5	34,5	48	48	60	72	180
GX 40H	90	14	6	41,5	68	50	62	74	182

Serijska / Series GN - O

Tip Type	Oznaka / Marking					L			
	A	D1	D2	E	K	1	2	3...12	
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 12H	65	12	5	34,5	48	38,6	48,3	58	145,3
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8
GN 20H	65	12	5	34,5	48	38,6	48,3	58	145,3
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1
GN 25H	65	12	5	34,5	48	43	56,6	70,2	192,6
GN 32	65	14	5	34,5	48	45,9	59,5	73,1	195,5
GN 32H	90	14	6	41,5	68	46,6	60,2	73,8	196,2
GN 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6
GN 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3
GN 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4
GN 63H	90	14	6	41,5	68	55	73,1	91,2	254,1
GN 125	90	16	6	41,5	68	74,8	103,9	133	394,9

* za / for GN63 D2*=6 K*=68

Serijska / Series GF - O

Tip Type	Oznaka / Marking					L			
	A	D1	D2	E	K	1	2	3...12	
GF 20	48	12	5	26,5	36	46	59,5	73	194,5

Serijska / Series GX - O

Tip Type	Oznaka / Marking						L			
	A	D1	D2	E	F	K	1	2	3...12	
GX 16	48	12	5	26,5	52	36	37	45,5	54	130,5
GX 16H	65	12	5	34,5	52	48	37	45,5	54	130,5
GX 20	48	12	5	26,5	52	36	37	45,5	54	130,5
GX 20H	65	12	5	34,5	52	48	37	45,5	54	130,5
GX 32	65	14	5	34,5	68	48	48	60	72	180
GX 32H	90	14	6	41,5	68	68	48	60	72	180
GX 40	65	14	5	34,5	68	48	48	60	72	180
GX 40H	90	14	6	41,5	68	68	48	60	72	180

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

ZAŠTITNA KAPA *PROTECTION COVER*

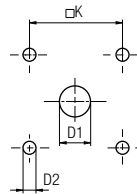
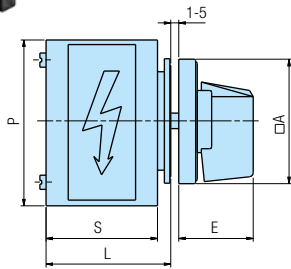


19

Zaštita od slučajnog dodira dovodnih priključnih stezaljki. Samo za sklopke s dva elementa.

Protection against an accidental contact with the supplying terminals. For the switches with only two elements.

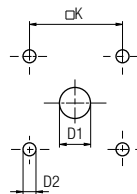
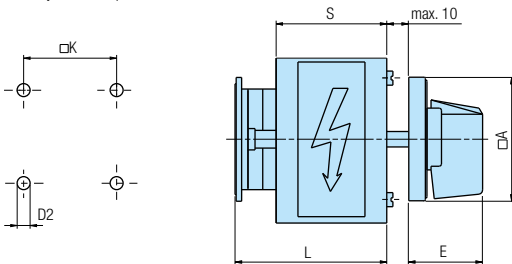
Plan bušenja / Drilling plan
Prednji lim / Front panel



Serija / Series GN - U

Tip Type	Oznaka / Marking								L
	□A	D1	D2	E	□K	S	P	L	
GN 12	48	12	5	26,5	36	43	64	51,3	
GN 12H	65	12	5	34,5	48	43	64	51,8	
GN 20	48	12	5	26,5	36	43	64	51,3	
GN 20H	65	12	5	34,5	48	43	64	51,8	
GN 25	48	12	5	26,5	36	51	68	59,6	
GN 25H	65	12	5	34,5	48	51	68	60,1	
GN 32	65	14	5	34,5	48	55	77	64,9	
GN 32H	90	14	6	41,5	68	55	77	65,6	
GN 40	65	14	5	34,5	48	55	77	68,7	
GN 40H	90	14	6	41,5	68	55	77	69,4	

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Serija / Series GN - O

Tip Type	Oznaka / Marking								L
	□A	D1	D2	E	□K	S	L		
GN 12	48	12	5	26,5	36	43	51,3		
GN 12H	65	12	5	34,5	48	43	51,8		
GN 20	48	12	5	26,5	36	43	51,3		
GN 20H	65	12	5	34,5	48	43	51,8		
GN 25	48	12	5	26,5	36	51	59,6		
GN 25H	65	12	5	34,5	48	51	60,1		
GN 32	65	14	5	34,5	48	55	64,9		
GN 32H	90	14	6	41,5	68	55	65,6		
GN 40	65	14	5	34,5	48	55	68,7		
GN 40H	90	14	6	41,5	68	55	69,4		

ZAŠTITNA KAPA *PROTECTION COVER*

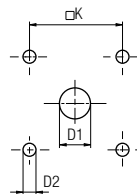
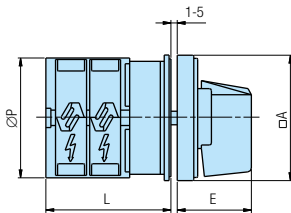


69

Zaštita od slučajnog dodira dovodnih priključnih stezaljki. Standardno - zaštita dovodnih priključnih stezaljki (sklopke 0-1; 1-12 polne).

Protection against an accidental contact with the supplying terminals. Standard manner supplying terminals are protected (switches 0-1; 1-12 poles).

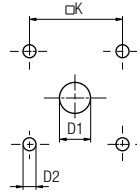
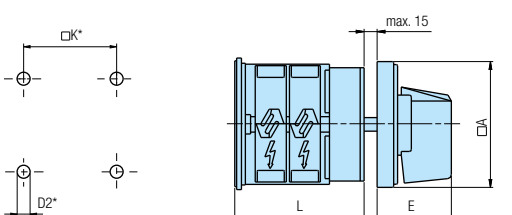
Plan bušenja / Drilling plan
Prednji lim / Front panel



Serija / Series GN - U

Tip Type	Oznaka / Marking										L
	□A	D1	D2	E	□K	ØP	1	2	3...12		
GN 12	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8	
GN 12H	65	12	5	34,5	48	39	33,6	43,3	53	140,3	
GN 20	48	12	5	26,5	36	39	33,1	42,8	52,5	139,8	
GN 20H	65	12	5	34,5	48	39	33,6	43,3	53	140,3	
GN 25	48	12	5	26,5	36	43	37,5	51,1	64,7	187,1	
GN 25H	65	12	5	34,5	48	58	38	51,6	65,2	187,6	
GN 40	65	14	5	34,5	48	58,5	43,5	58,6	73,7	209,6	
GN 40H	90	14	6	41,5	68	84	44,2	59,3	74,4	210,3	
GN 63	65	14	5	34,5	48	62	47,3	65,4	83,5	246,4	
GN 63H	90	14	6	41,5	68	84	48	66,1	84,2	247,1	
GN 125	90	16	6	41,5	68	86,5	67,3	96,4	125,5	387,4	

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Serija / Series GN - O

Tip Type	Oznaka / Marking										L
	□A	D1	D2	E	□K	1	2	3...12			
GN 12	48	12	5	26,5	36	38,1	47,8	57,5	144,8		
GN 12H	65	12	5	34,5	48	38,6	48,3	58	147,7		
GN 20	48	12	5	26,5	36	38,1	47,8	57,5	144,8		
GN 20H	65	12	5	34,5	48	38,6	48,3	58	147,7		
GN 25	48	12	5	26,5	36	42,5	56,1	69,7	192,1		
GN 25H	65	12	5	34,5	48	43	56,6	70,2	192,6		
GN 40	65	14	5	34,5	48	48,5	63,6	78,7	214,6		
GN 40H	90	14	6	41,5	68	49,2	64,3	79,4	215,3		
GN 63*	65	14	5	34,5	48	54,3	72,4	90,5	253,4		
GN 63H	90	14	6	41,5	68	55	73,1	91,2	254,1		
GN 125	90	16	6	41,5	68	74,8	103,9	133	394,9		

* za / for N63 D2*=6 □K*=68

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

IZVUČENI PRIKLJUČCI *EXTENSION TERMINALS*

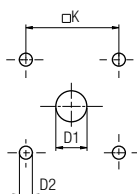
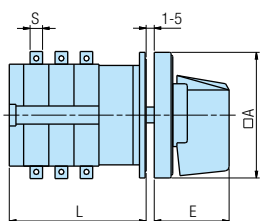


03

Utični priključci.
Fast-on terminals.

APM 4,8 GN12, GN20
APM 6,3 GN25, GN32, GN40

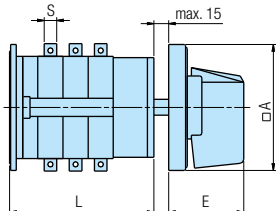
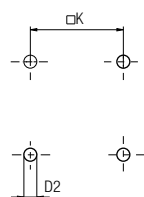
Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



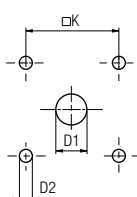
Serijska / *Series GN - U*

Tip <i>Type</i>	Oznaka / <i>Marking</i>						L				
	□A	D1	D2	E	□K	S	1	2	3...12		
GN 12	48	12	5	26,5	36	4,8	33,1	42,8	52,5	139,8	
GN 12H	65	12	5	34,5	48	4,8	33,6	43,3	53	140,3	
GN 20	48	12	5	26,5	36	4,8	33,1	42,8	52,5	139,8	
GN 20H	65	12	5	34,5	48	4,8	33,6	43,3	53	140,3	
GN 25	48	12	5	26,5	36	6,3	37,5	51,1	64,7	187,1	
GN 25H	65	12	5	34,5	48	6,3	38	51,6	65,2	187,6	
GN 32	65	14	5	34,5	48	6,3	40,9	54,5	68,1	190,5	
GN 32H	90	14	6	41,5	68	6,3	41,6	55,2	68,8	191,2	
GN 40	65	14	5	34,5	48	6,3	43,5	58,6	73,7	209,6	
GN 40H	90	14	6	41,5	68	6,3	44,2	59,3	74,4	210,3	

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



Serijska / *Series GN - 0*

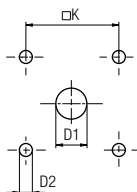
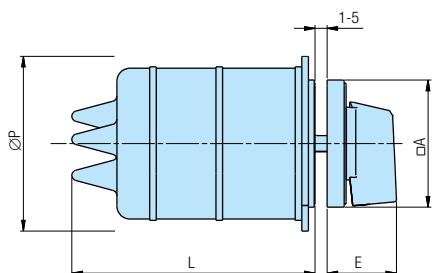
Tip <i>Type</i>	Oznaka / <i>Marking</i>						L				
	□A	D1	D2	E	□K	S	1	2	3...12		
GN 12	48	12	5	26,5	36	4,8	33,1	42,8	52,5	139,8	
GN 12H	65	12	5	34,5	48	4,8	33,6	43,3	53	140,3	
GN 20	48	12	5	26,5	36	4,8	33,1	42,8	52,5	139,8	
GN 20H	65	12	5	34,5	48	4,8	33,6	43,3	53	140,3	
GN 25	48	12	5	26,5	36	6,3	37,5	51,1	64,7	187,1	
GN 25H	65	12	5	34,5	48	6,3	38	51,6	65,2	187,6	
GN 32	65	14	5	34,5	48	6,3	40,9	54,5	68,1	190,5	
GN 32H	90	14	6	41,5	68	6,3	41,6	55,2	68,8	191,2	
GN 40	65	14	5	34,5	48	6,3	43,5	58,6	73,7	209,6	
GN 40H	90	14	6	41,5	68	6,3	44,2	59,3	74,4	210,3	

ZAŠTITNA NAVLAKA *PROTECTION TUBE*



43

Stražnja zaštita IP42. Mogućnost naknadne ugradnje zaštitne navlake na standardnu sklopku.
Rear protection IP42. Possibility to directly fitted on the standard switch.



Tip <i>Type</i>	Oznaka / <i>Marking</i>					
	□A	D1	D2	E	□K	ØP
GN 12	48	12	5	26,5	36	66
GN 20	48	12	5	26,5	36	66
GN 25	48	12	5	26,5	36	66
GN 32	65	14	5	34,5	48	89
GN 40	65	14	5	34,5	48	89
GN 63	65	14	5	34,5	48	89

Tip / <i>Type</i>	Br. elemenata <i>No. of elements</i>	L
GN12, GN20, GN25	1 - 2	90
	3 - 4	115
	5 - 6	140
GN32, GN40 GN63	1 - 4	112,5
	1 - 3	112,5

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

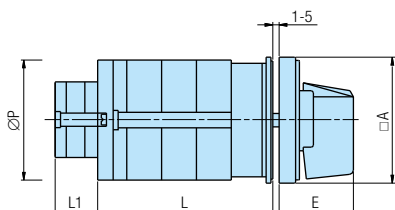
POMOĆNI KONTAKTI *AUXILIARY CONTACTS*



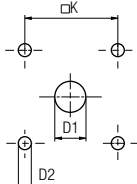
04

Narudžbom je potrebno definirati tip (GN12, GN20, GN25) i program skapanja pomoćnih kontakata.

It is necessary to define switch type (GN12, GN20, GN25) and switching diagram of the auxiliary contacts.



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - U

Tip Type	Oznaka / Marking						L					
	□A	D1	D2	E	□K	ØP	1	2	3	6...12		
GN 32	65	14	5	34,5	48	58,5	47,4	61	74,6	115,4	193,6	
GN 32H	90	14	6	41,5	68	84	48,1	61,7	75,3	116,1	197,7	
GN 40	65	14	5	34,5	48	58,5	50	65,1	80,2	125,5	216,1	
GN 40H	90	14	6	41,5	68	84	50,7	65,8	80,9	126,2	216,8	
GN 63	65	14	5	34,5	48	62	53,8	71,9	90	144,3	252,9	
GN 63H	90	14	6	41,5	68	84	54,5	72,6	90,7	145	253,6	
GN 125	90	16	6	41,5	68	88	74,3	103,4	132,5	219,8	-	

Serijska / Series G/4G - U

Tip Type	Oznaka / Marking							L											
	□A	D1	D2	D3	E	□K	ØP	1	2	3	4	5	6	7	8	9	10	11	12
4G200	132	16	5,3	6,5	62,5	104	120	77	107	136	166	196	226	284	314	343	373	402	432
G315	132	16	5,3	6,5	62,5	104	120	77	107	136	166	196	226	284	314	343	373	402	432
4G400	132	16	5,3	6,5	62,5	104	120	-	107	-	166	-	226	-	314	-	373	-	432
G630	132	16	5,3	6,5	62,5	104	120	-	107	-	166	-	226	-	314	-	373	-	432
G900	132	16	5,3	6,5	62,5	104	120	-	-	136	-	-	226	-	-	343	-	-	-
G1200	132	16	5,3	6,5	62,5	104	120	-	107	-	166	-	226	-	-	-	373	-	432
G1600	132	16	5,3	6,5	62,5	104	120	-	-	136	-	-	226	-	-	343	-	-	432
G2000	132	16	5,3	6,5	62,5	104	120	-	-	-	166	-	-	-	314	-	-	-	432

Tip Type	L1 / GN32, GN40, GN63, GN125			
	1	2	3...12	
GN 12	33,1	42,8	52,5	139,8
GN 20	33,1	42,8	52,5	139,8
GN 25	37,5	51,1	60,8	183,2

Tip Type	L1 / 4G200 - G2000			
	1	2	3...12	
GN 12	34,4	44	41,2	128,5
GN 20	34,4	44	41,2	128,5
GN 25	38,8	52,3	65,8	187,3

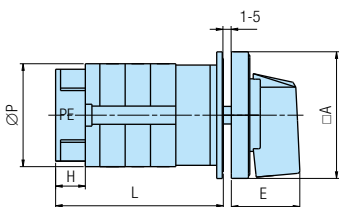
ZEMLJA I NULA PRIKLJUČAK *GROUND AND NEUTRAL TERMINAL*



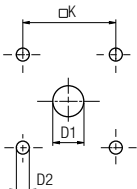
33

Priključna mjesta vodiča zemlje (PE) i nule (N).

Ground (PE) and neutral (N) connecting unit.



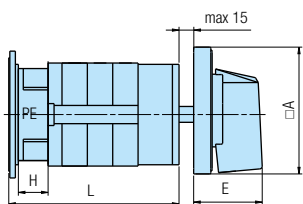
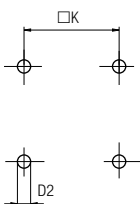
Plan bušenja / Drilling plan
Prednji lim / Front panel



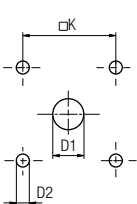
Serijska / Series GN - U

Tip Type	Oznaka / Marking						L					
	□A	D1	D2	E	□K	H	ØP	1	2	3...12		
GN 12	48	12	5	26,5	36	10,6	39	43,7	53,4	63,1	150,4	
GN 12H	65	12	5	34,5	48	10,6	58	44,2	53,9	63,6	150,9	
GN 20	48	12	5	26,5	36	10,6	39	43,7	53,4	63,1	150,4	
GN 20H	65	12	5	34,5	48	10,6	58	44,2	53,9	63,6	150,9	
GN 25	48	12	5	26,5	36	10,6	43	48,1	61,7	75,3	197,7	
GN 25H	65	12	5	34,5	48	10,6	58	48,6	62,2	75,8	198,2	
GN 32	65	14	5	34,5	48	15,5	58,5	56,4	70	83,6	206	
GN 32H	90	14	6	41,5	68	15,5	84	57,1	70,7	84,3	206,7	
GN 40	65	14	5	34,5	48	15,5	58,5	59	74,1	89,2	225,1	
GN 40H	90	14	6	41,5	68	15,5	84	59,7	74,8	89,9	225,8	
GN 63	65	14	5	34,5	48	15,5	62	62,8	80,9	99	261,9	
GN 63H	90	14	6	41,5	68	15,5	84	63,5	81,6	99,7	262,6	

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



Plan bušenja / Drilling plan
Prednji lim / Front panel



Serijska / Series GN - O

Tip Type	Oznaka / Marking						L			
	□A	D1	D2	E	H	□K	1	2	3...12	
GN 12	48	12	5	26,5	10,6	36	48,7	58,4	68,1	155,4
GN 12H	65	12	5	34,5	10,6	48	49,2	58,9	68,6	155,9
GN 20	48	12	5	26,5	10,6	36	48,7	58,4	68,1	155,4
GN 20H	65	12	5	34,5	10,6	48	49,2	58,9	68,6	155,9
GN 25	48	12	5	26,5	10,6	36	53,1	66,7	80,3	202,7
GN 25H	65	12	5	34,5	10,6	48	53,6	67,2	80,8	203,2
GN 32	65	14	5	34,5	15,5	48	61,4	75	88,6	211
GN 32H	90	14	6	41,5	15,5	68	62,1	75,7	89,3	211,7
GN 40	65	14	5	34,5	15,5	48	64	79,1	94,2	230,1
GN 40H	90	14	6	41,5	15,5	68	64,7	79,8	94,9	230,8
GN 63	65	14	5	34,5	15,5	48	69,8	87,9	106	268,9
GN 63H	90	14	6	41,5	15,5	68	70,5	88,6	106,7	269,6

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

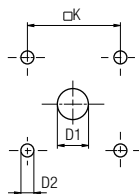
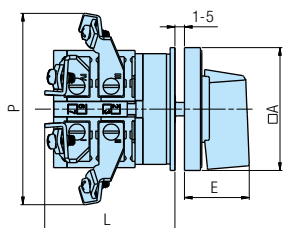
IZVUČENI PRIKLJUČCI *EXTENSION TERMINALS*



53

Olakšano ožičenje sklopke.
Relief the cable connection.

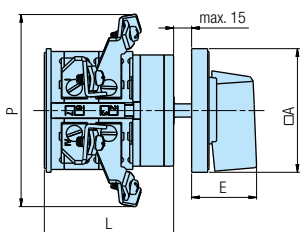
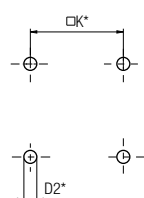
Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



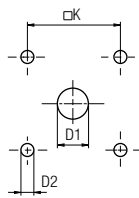
Serijska / *Series GN - U*

Tip Type	Oznaka / <i>Marking</i>						L			
	$\square A$	D1	D2	E	$\square K$	P	1	2	3...12	
GN 40	65	14	5	34,5	48	85x87	43,5	58,6	73,7	209,6
GN 40H	90	14	6	41,5	68	85x87	44,2	59,3	74,4	210,3
GN 63	65	14	5	34,5	48	89x102	47,3	65,4	83,5	246,4
GN 63H	90	14	6	41,5	68	89x102	48	66,1	84,2	247,1

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*

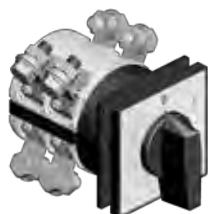


Serijska / *Series GN - O*

Tip Type	Oznaka / <i>Marking</i>						L			
	A	D1	D2	E	$\square K$	P	1	2	3...12	
GN 40	65	14	5	34,5	48	85x87	48,5	63,6	78,7	214,6
GN 40H	90	14	6	41,5	68	85x87	49,2	64,3	79,4	215,3
GN 63*	65	14	5	34,5	48	89x102	54,3	72,4	90,5	253,4
GN 63H	90	14	6	41,5	68	89x102	55	73,1	91,2	254,1

* za / *for GN63 D2*=6 $\square K^*=68$*

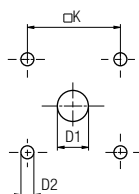
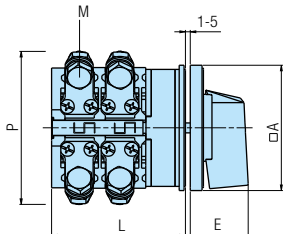
IZVUČENI PRIKLJUČCI *EXTENSION TERMINALS*



53D

Omogućeno spajanje kabljskim stopicama.
Terminal lugs facilitate the connecting.

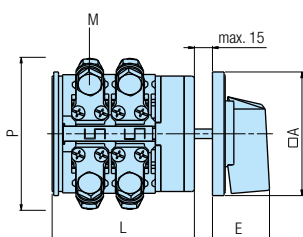
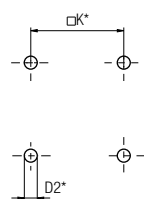
Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



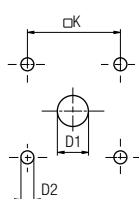
Serijska / *Series GN - U*

Tip Type	Oznaka / <i>Marking</i>							L			
	$\square A$	D1	D2	E	$\square K$	M	P	1	2	3...12	
GN 63	65	14	5	34,5	48	M5	80x100	47,3	65,4	83,5	246,4
GN 63H	90	16	6	41,5	68	M5	80x100	48	66,1	84,2	247,1
GN 125	90	16	6	41,5	68	M10	110x110	67,3	96,4	125,5	387,4

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



Plan bušenja / *Drilling plan*
Prednji lim / *Front panel*



Serijska / *Series GN - O*

Tip Type	Oznaka / <i>Marking</i>							L			
	$\square A$	D1	D2	E	$\square K$	M	P	1	2	3...12	
GN 63*	65	14	5	34,5	48	M5	80x100	54,3	72,4	90,5	253,4
GN 63H	90	16	6	41,5	68	M5	80x100	55	73,1	91,2	254,1
GN 125	90	16	6	41,5	68	M10	110x110	74,8	103,9	133	394,9

* za / *for GN63 D2*=6 $\square K^*=68$*

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PLASTIČNO KUĆIŠTE *PLASTIC ENCLOSURE*

03

Utični priključci
Fast-on terminals



28

Blokiranje lijevog smjera okretanja
The left direction is blocked

Serijska / *Series GN*

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	25
GN 20		1 - 3	4 - 6						
GN 25		1 - 2	3 - 4						
GN 32	110 x 110	1 - 3	4 - 5	110	110	83	98,4	4,5	32
GN 40		1 - 2	3 - 5						

Serijska / *Series GN*

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	75 x 75	1 - 2	3 - 4	75	75	64	50	4,5	19
GN 20		1 - 2	3 - 4						
GN 25		1	2 - 3						
GN 12	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	25
GN 20		1 - 3	4 - 6						
GN 25		1 - 2	3 - 4						
GN 32	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	32
GN 40		1	2 - 3						
GN 12	110 x 110	1 - 4	5 - 8	110	110	83	98,4	4,5	32
GN 20		1 - 4	5 - 8						
GN 25		1 - 3	4 - 5						
GN 32	110 x 110	1 - 3	4 - 5	110	110	83	98,4	4,5	32
GN 40		1 - 2	3 - 5						
GN 63	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	32
GN 32		1 - 3	4 - 5						
GN 40	125 x 175	1 - 2	3 - 4	125	175	112	146	5,5	32
GN 63		1 - 2	3 - 4						
GN 125	125 x 175	1	2	125	175	112	146	5,5	32
GN 125		1	2						
GN 125	180 x 254	1 - 2	3 - 4	180	254	120	190	5,5	41,5

Serijska / *Series GX*

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GX 16	90 x 90	1 - 2	3 - 5	90	90	63	79	4,5	28
GX 20		1 - 2	3 - 5						
GX 16	110 x 110	1 - 3	4 - 7	110	110	83	98,4	4,5	38,5
GX 20		1 - 3	4 - 7						
GX 32		1 - 2	3 - 4						
GX 40	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	38,5

24

Standardna sklopka sa žutom podlogom i crvenom ručicom
Standard switch with yellow escutcheon plate and red handle



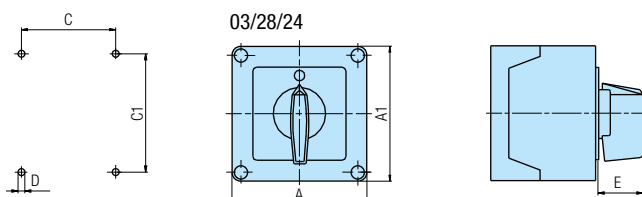
Serijska / *Series GN*

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	75 x 75	1 - 2	3 - 4	75	75	64	50	4,5	19
GN 20		1 - 2	3 - 4						
GN 25		1	2 - 3						
GN 12	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	25
GN 20		1 - 3	4 - 6						
GN 25		1 - 2	3 - 4						
GN 32	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	32
GN 40		1	2 - 3						
GN 12	110 x 110	1 - 4	5 - 8	110	110	83	98,4	4,5	32
GN 20		1 - 4	5 - 8						
GN 25		1 - 3	4 - 5						
GN 32	110 x 110	1 - 3	4 - 5	110	110	83	98,4	4,5	32
GN 40		1 - 2	3 - 5						
GN 63	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	32
GN 32		1 - 3	4 - 5						
GN 40	125 x 175	1 - 2	3 - 4	125	175	112	146	5,5	32
GN 63		1 - 2	3 - 4						
GN 125	125 x 175	1	2	125	175	112	146	5,5	32
GN 125		1	2						
GN 125	180 x 254	1 - 2	3 - 4	180	254	120	190	5,5	41,5

Serijska / *Series GX*

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GX 16	90 x 90	1 - 2	3 - 5	90	90	63	79	4,5	28
GX 20		1 - 2	3 - 5						
GX 16	110 x 110	1 - 3	4 - 7	110	110	83	98,4	4,5	38,5
GX 20		1 - 3	4 - 7						
GX 32		1 - 2	3 - 4						
GX 40	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	38,5

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear panel*



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PLASTIČNO KUČIŠTE *PLASTIC ENCLOSURE*



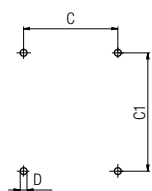
06
23
25

Zaključavanje samo u "0" (vidi stranice 19 i 25)

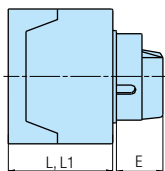
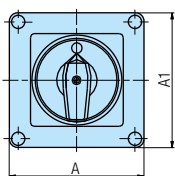
Locking only in "0" (see pages 19 and 25)

	MOGUĆNOSTI POSSIBILITY	RUČICA HANDLE	ČEONA PLOČA COVER PLATE	KUČIŠTE ENCLOSURE
06		siva / grey	siva / grey	sivo / grey
23		crna / black	crna / black	sivo / grey
25		crvena / red	žuta / yellow	sivo / grey

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



06/23/25



Serijska / Series GN

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	75 x 75	1 - 2	3 - 4	75	75	64	50	4,5	28
GN 20		1 - 2	3 - 4						
GN 25		1	2 - 3						
GN 12	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	28
GN 20		1 - 3	4 - 6						
GN 25		1 - 2	3 - 4						
GN 32	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	38,5
GN 40		1	2 - 3						
GN 12		1 - 4	5 - 8						
GN 20	125 x 175	1 - 4	5 - 8	125	175	112	146	5,5	38,5
GN 25		1 - 3	4 - 5						
GN 32		1 - 3	4 - 5						
GN 40	180 x 254	1 - 2	3 - 5	180	254	120	190	5,5	49
GN 63		1 - 2	3 - 4						
GN 32		1 - 3	4 - 5						
GN 40	180 x 254	1 - 2	3 - 4	180	254	120	190	5,5	49
GN 63		1 - 2	3 - 4						
GN 125		1	2						

Serijska / Series GX

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GX 16	90 x 90	1 - 2	3 - 5	90	90	63	79	4,5	28
GX 20		1 - 3	4 - 7						
GX 16	110 x 110	1 - 3	4 - 7	110	110	83	98,4	4,5	38,5
GX 20		1 - 2	3 - 4						
GX 32		1 - 2	3 - 4						
GX 40	110 x 110	1 - 2	3 - 4	110	110	83	98,4	4,5	38,5
GX 20		1 - 2	3 - 4						

Napomena / Remark

L - niski poklopac, L1 - visoki poklopac (vidi str. 12)
L - low cover, L1 - high cover (see page 12)



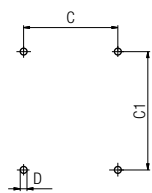
56
73
75

Zaključavanje (1 - 3 lokota) samo u "0" (vidi stranice 21 i 26)

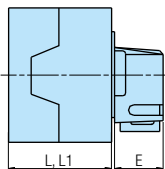
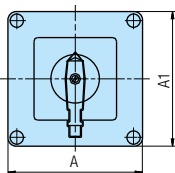
Locking (1 - 3 padlocks) only in "0" (see pages 21 and 26)

	RUČICA HANDLE	PODLOGA ESCUTCH. PLATE	KUČIŠTE ENCLOSURE	Y KOD / CODE
56	crna / black	bijela / white	sivo / grey	20
	siva / grey	bijela / white	sivo / grey	
73	crna / black	crna / black	sivo / grey	
75	crvena - žuta / red - yellow	žuta / yellow	sivo / grey	

Plan bušenja / Drilling plan
Stražnji lim / Rear panel



56/73/75



Serijska / Series GN

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	75 x 75	1 - 2	3 - 4	75	75	64	50	4,5	27
GN 20		1 - 2	3 - 4						
GN 25		1	2 - 3						

Napomena / Remark

L - niski poklopac, L1 - visoki poklopac (vidi str. 12)
L - low cover, L1 - high cover (see page 12)

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PLASTIČNO KUĆIŠTE *PLASTIC ENCLOSURE*

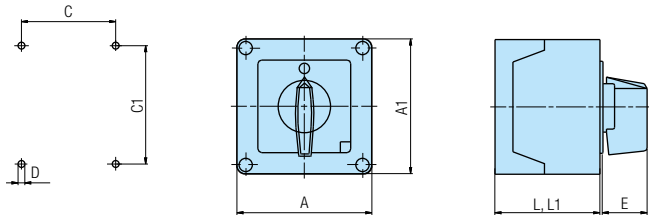


15

Standardno se ugrađuje crvena svjetiljka (230 V), desno dolje.
Mogući naponi 110 i 400 V kao i zelena boja svjetiljke (potrebno definirati).
Na poseban zahtjev ugrađujemo i drugu svjetiljku lijevo dolje.

*In a standard manner, the red lamp (230 V) is built in the right bottom corner.
Possible voltages are 110 and 400 V and green lamp, too (please define).
On special request second lamp can be built in the left bottom corner.*

Plan bušenja / Drilling plan
Stražnji tim / Rear panel



Serijska / Series GN

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GN 12	75 x 75	1 - 2	3 - 4	75	75	64	50	4,5	19
GN 20		1 - 2	3 - 4						
GN 25		1	2 - 3						
GN 12		1 - 3	4 - 6						
GN 20	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	25
GN 25		1 - 2	3 - 4						
GN 32		1 - 2	3 - 4						
GN 40		1	2 - 3						
GN 12	110 x 110	1 - 4	5 - 8	110	110	83	98,4	4,5	32
GN 20		1 - 4	5 - 8						
GN 25		1 - 3	4 - 5						
GN 32		1 - 3	4 - 5						
GN 40	125 x 175	1 - 2	3 - 5	125	175	112	146	5,5	32
GN 63		1 - 2	3 - 4						
GN 32		1 - 3	4 - 5						
GN 40		1 - 2	3 - 4						
GN 125	180 x 254	1	2	180	254	120	190	5,5	41,5
GN 125		1 - 2	3 - 4						

Serijska / Series GX

Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	E
		L	L1						
GX 12	90 x 90	1 - 3	4 - 6	90	90	63	79	4,5	25
GX 20		1 - 3	4 - 6						
GX 25		1 - 2	3 - 4						
GX 32	110 x 110	1 - 3	4 - 5	110	110	83	98,4	4,5	32
GX 40		1 - 2	3 - 5						

Napomena / Remark

L - niski poklopac, L1 - visoki poklopac (vidi str. 12)
L - low cover, L1 - high cover (see page 12)

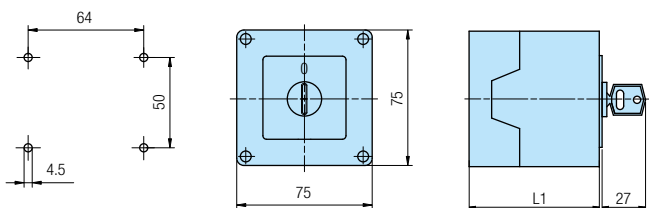


30

Zaključavanje odnosno vađenje klučka pod 90°. Moguća 1 - 4 zaključana položaja unutar 360° (potrebno definirati). Zaštita IP42.

Locking and pull-out of the key at 90°. Possible 1 - 4 locked positions within 360° (please define). Protection IP42.

Plan bušenja / Drilling plan
Stražnji tim / Rear panel



Serijska / Series GN




Tip Type	Veličina kućišta Enclosure size	Broj elemenata Number of elements	
		L	L1
GN 12	75 x 75	1 - 2	
GN 20		1 - 2	
GN 25		1	

Napomena / Remark

L1 - visoki poklopac (vidi str. 12)
L1 - high cover (see page 12)

REZERVNI DIJELOVI ACCESSORIES

RUČICE HANDLES

		NARUŽBENI KOD / ORDERING CODE							
		Veličina / Size							
	Boja / Colour	A0	A1		A2				A3
	siva / grey	R011-6	R111-6	R111-7	R211-6	R211-7	R211-8	R211-9	R311
	crvena / red	R012-6	R112-6	R112-7	R212-6	R212-7	R212-8	R212-9	R312
	crna / black	R014-6	R114-6	R114-7	R214-6	R214-7	R214-8	R214-9	R314
	žuta / yellow	R015-6	R115-6	R115-7	R215-6	R215-7	R215-8	R215-9	R315
	siva / grey		R121-6	R121-7	R221-6	R221-7	R221-8	R221-9	R321
	crvena / red		R122-6	R122-7	R222-6	R222-7	R222-8	R222-9	R322
	crna / black		R124-6	R124-7	R224-6	R224-7	R224-8	R224-9	R324
	žuta / yellow		R125-6	R125-7	R225-6	R225-7	R225-8	R225-9	R325
	siva / grey								R331
	crvena / red								R332
	crna / black								R334
	žuta / yellow								R335

Zadnji broj u kodu ručice (6, 7, 8 ili 9) označava kvadrat osovine na koju se ručica montira (kota □N na mjerneoj skici na strani 5).

Last number in ordering code (6, 7, 8 or 9) means the shaft square required for requested handle (dimension □N from dim. drawing on page 5).

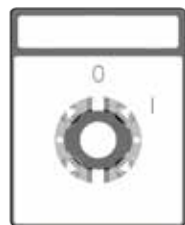
□ - standardna ručica za određenu ugradnu veličinu / standard handle for defined mounting size

PREDNJE PLOČE FRONT PLATES



Prednja ploča standardnog oblika. Moguća za sve veličine (A0, A1, A2, A3). Izrađuje se standardno u crnoj boji, a prema narudžbi u sivoj i žutoj. Standardne podloge prednjih ploča vidi na stranicama 63 - 65.

Front plate - standard form. Available at all sizes (A0, A1, A2, A3). In a standard manner it is being produced in black colour; grey and yellow colour available on request. Standard escutcheon plates of front plates see on pages 63 - 65.



Prednja ploča s natpisom. Moguća za sve veličine (A0, A1, A2). Izrađuje se standardno u crnoj boji, a prema narudžbi u sivoj i žutoj. Standardne podloge prednjih ploča vidi na stranicama 63 - 65.

Front plate with title. Available at all sizes (A0, A1, A2). In a standard manner it is being produced in black colour; grey and yellow colour available on request. Standard escutcheon plates of front plates see on pages 63 - 65.

RUČICA SA ZAKLJUČAVANJEM PADLOCKABLE HANDLE



Zaključavanje samo u "0"

Padlocking in "0"

		NARUŽBENI KOD / ORDERING CODE			
		Veličina / Size			
		A0	A1	A2	
Boja / Colour		□6	□7	□8	□9
crna / black		610264	610607	B93921	B93645
siva / grey		610267	610282	B93922	B93647
crvena - žuta / red - yellow		610382	610386	B93920	B93646

ZAŠTITNA NAVLAKA PROTECTION TUBE

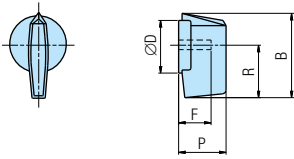


Elastična navlaka. Stupanj zaštite IP42 za GN12, GN20, GN25, GN32, GN40 i GN63.

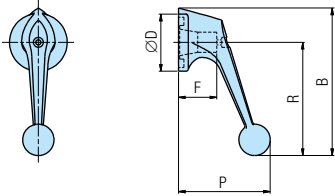
Flexible rubber shroud. Contact degree of protection IP42 for GN12, GN20, GN25, GN32, GN40 and GN63.

REZERVNI DIJELOVI ACCESSORIES

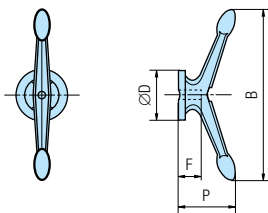
MJERNE SKICE DIMENSIONAL DRAWINGS (mm)



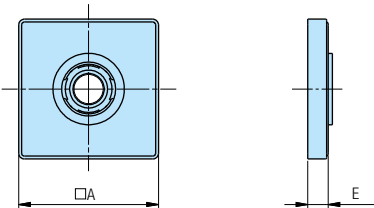
Ugradna veličina Mounting size	Oznaka / Marking				
	B	ØD	F	P	R
A00	24	15	12	14,5	14,5
A0	39,5	27,5	16	19	23,5
A1	53	35	20	25	32
A2	70,5	48	26,5	32	43,5
A3	104	75	39	46,5	63,5



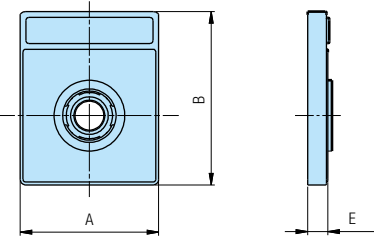
Ugradna veličina Mounting size	Oznaka / Marking				
	B	ØD	F	P	R
A1	81,5	35	23	52	61,5
A2	105,5	48	26,5	65	79,5
A3	155,5	75	28	88	115



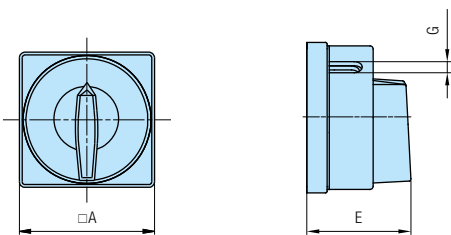
Ugradna veličina Mounting size	Oznaka / Marking			
	B	ØD	F	P
A3	262	75	28	87



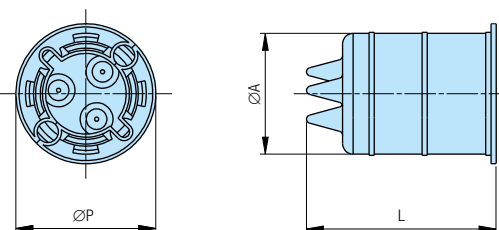
Ugradna veličina Mounting size	Oznaka / Marking	
	□A	E
A00	30	5,5
A0	48	7,5
A1	65	9,5
A2	90	9,5
A3	132	10



Ugradna veličina Mounting size	Oznaka / Marking		
	A	B	E
A00	30	41	6,5
A0	48	60	7,5
A1	65	80,5	9,5
A2	90	110	9,5



Ugradna veličina Mounting size	Oznaka / Marking		
	□A	E	G
A0	48	34,2	5
A1	65	38	6
A2	90	49	8



Tip Type	Br. elemenata No. of elements	ØP	ØA	L	Narudžbeni kod Ordering code
GN12, GN20, GN25	1 - 2	66	57	90	B85913
	3 - 4			115	B85943
	5 - 6			140	B85944
GN32, GN40	1 - 4	89	87	112,5	B90494
GN63	1 - 3				

REZERVNI DIJELOVI ACCESSORIES

PODLOGA "N" ESCUTCHEON PLATE "N"

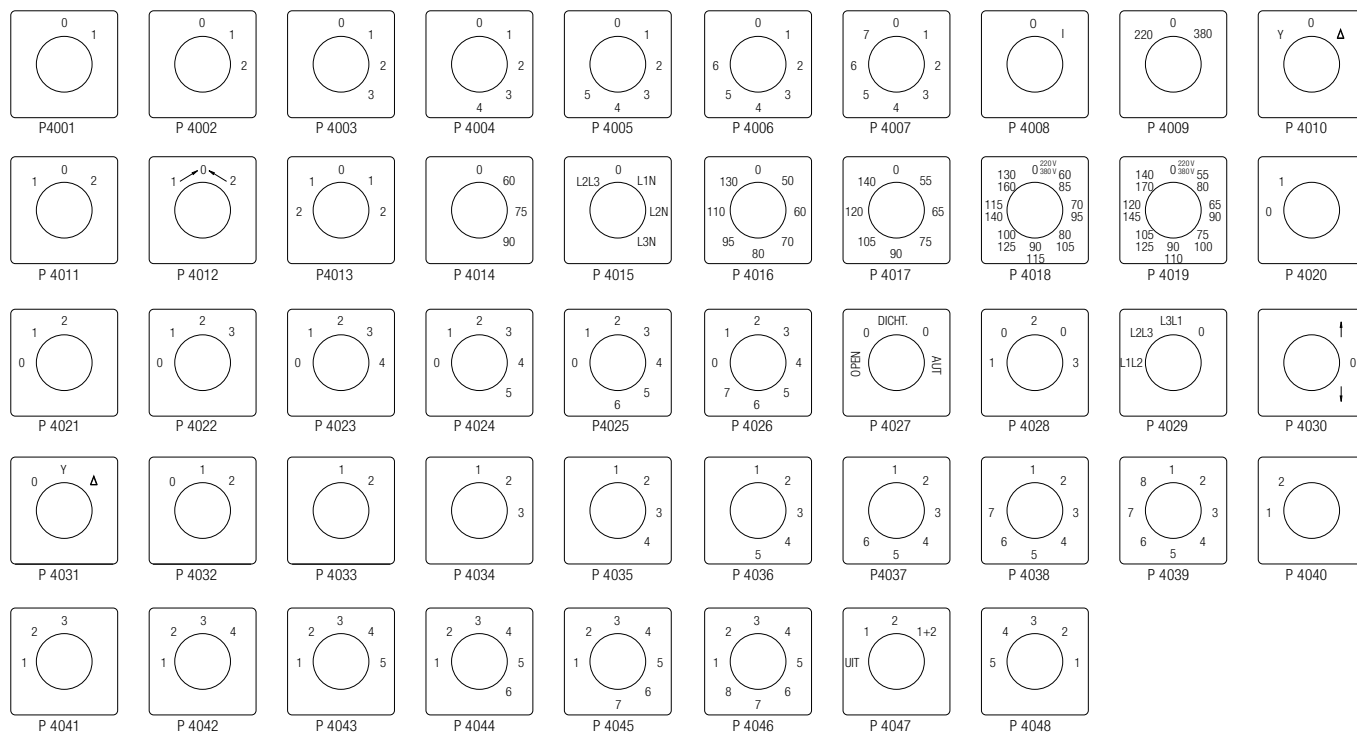
GLAVNA SKLOPKA N 01	MAIN SWITCH N 02	HAUPTSCHALTER N 03	NUŽNO ISKLAPANJE N 04	EMERGENCY OFF N 05	NOT-AUS N 06	VOLTMETAR N 07	VOLTMETER N 08	AMPERMETAR N 09	AMMETER N 10
AMPERMETER N 11	VOLTM.-AMPERM. N 12	VOLTMETER-AMMETER N 13	MOTOR N 14	MOTOR CONTROL N 15	PUMPA N 16	PUMP N 17	PUMPE N 18	GRIJANJE N 19	HEIZUNG N 20
HLADENJE N 21	VENTILATOR N 22	RASVJETA N 23	BIRAČ N 24	WAHLSCHALTER N 25	SELECTOR N 26	REGULACIJA BRZINE N 27	SPEED CONTROL N 28	SINKRONIZACIJA N 29	SYNCHRONIZING N 30
 N 31									

30° KUT ZAKRETA SWITCHING

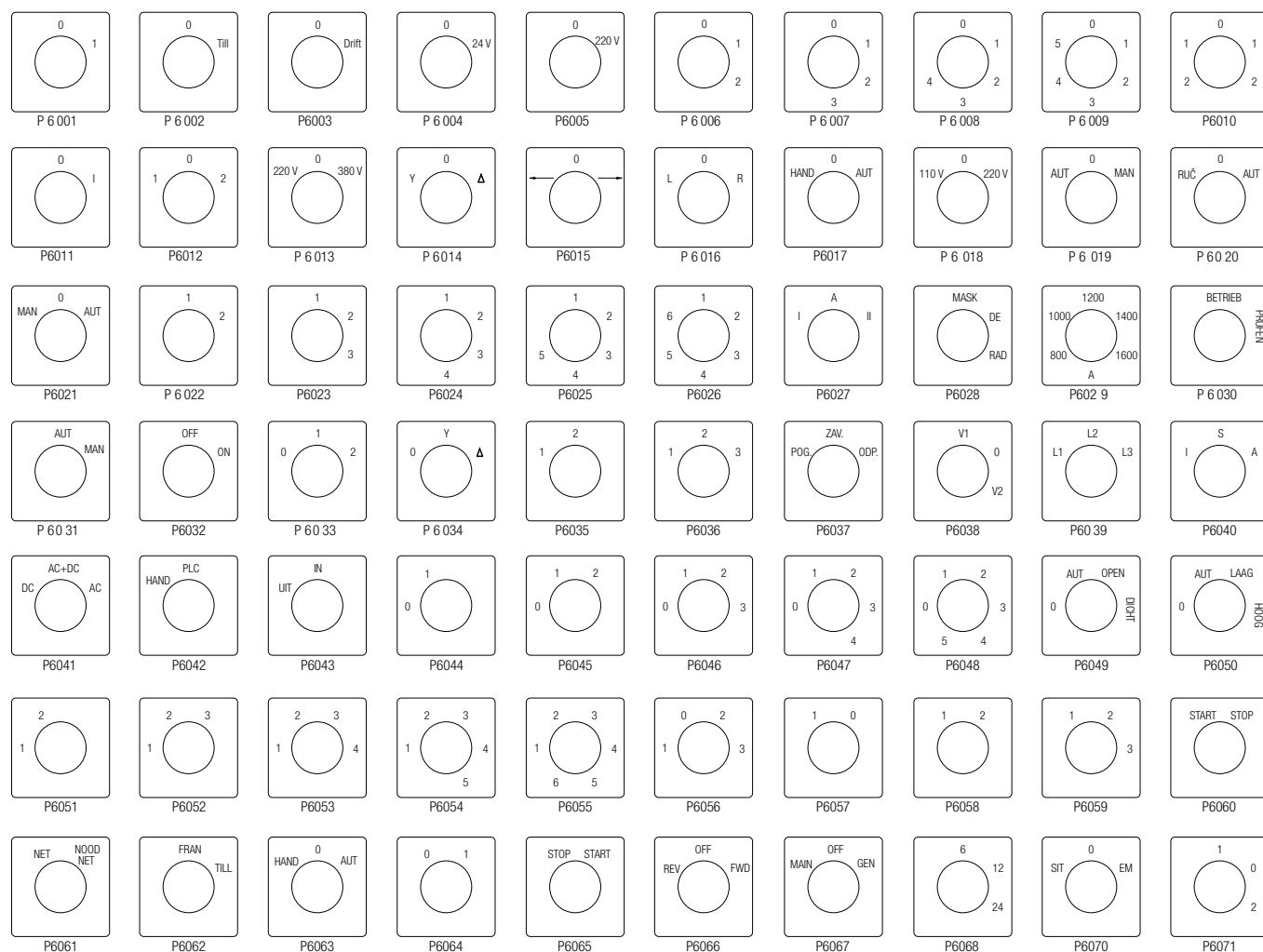
 P3001	 P3002	 P3003	 P3004	 P3005	 P3006	 P3007	 P3008	 P3009	 P3010
 P3011	 P3012	 P3013	 P3014	 P3015	 P3016	 P3017	 P3018	 P3019	 P3020
 P3021	 P3022	 P3023	 P3024	 P3025	 P3026	 P3027	 P3028	 P3029	 P3030
 P3032	 P3033	 P3034	 P3035	 P3036	 P3037	 P3038	 P3039	 P3040	 P3041
 P3042	 P3043	 P3044	 P3045	 P3046	 P3047	 P3048	 P3049	 P3050	 P3051
 P3052	 P3053	 P3054	 P3055	 P3056	 P3057	 P3058	 P3059	 P3060	 P3061
 P3062	 P3064	 P3065	 P3066	 P3067	 P3068	 P3069	 P3070	 P3071	 P3072
 P3073	 P3074	 P3075	 P3076	 P3077	 P3078	 P3079	 P3080	 P3081	 P3082
 P3083	 P3084	 P3085	 P3086	 P3087	 P3088	 P3089	 P3090	 P3091	 P3092
 P3093	 P3094	 P3095	 P3096	 P3097	 P3098	 P3099	 P3100	 P3101	 P3102

REZERVNI DIJELOVI ACCESSORIES

45° KUT ZAKRETA SWITCHING



60° KUT ZAKRETA SWITCHING



REZERVNI DIJELOVI ACCESSORIES

90° KUT ZAKRETA SWITCHING

P9001	P9002	P9003	P9004	P9005	P9006	P9007	P9008	P9009	P9010
P9011	P9012	P9013	P9014	P9016	P9017	P9018	P9019	P9020	P9021
P9022	P9023	P9024	P9025	P9026	P9027	P9028	P9029	P9030	P9031
P9032	P9033	P9034	P9035	P9036	P9038	P9039	P9040	P9041	P9042
P9043	P9044	P9045	P9046	P9047	P9048	P9049	P9050	P9051	P9052
P9053	P9054	P9055	P9056	P9057	P9058	P9059	P9060	P9061	P9062
P9063	P9064	P9065	P9066	P9067	P9068	P9069	P9070	P9071	P9072
P9073	P9074	P9075	P9076	P9077	P9078	P9079	P9080	P9081	

RAZLIČITI KUTEVI ZAKRETA MISCELLANEOUS SWITCHING

P0001	P0002	P0003	P0004	P0005	P0006	P0007	P0008	P0009	P0010
P0011	P0012	P0013	P0014	P0015	P0016	P0017	P0018	P0019	P0020
P0021	P0022	P0023							


PREGLED POSEBNIH IZVEDBI PO STRANICAMA *OPTIONAL EXTRAS - REVIEW*

POSEBNA IZVEDBA <i>OPTIONAL EXTRA</i>	Stranica <i>Page</i>	Prednja ploča s natpisom <i>Front plate with title (N)</i>	Mogućnost kombinacije posebnih izvedbi <i>Possible optional extra combinations</i>						
			+39D		+51				
			A0	A1	A0	A1	A2		
01	51								
02	36	+			+	+	+		
03	54	+	+	+	+	+			
04	55	+		+		+	+		
05	24	+							
06	25	+	+	+	+	+	+	+	
06D	27								
07	40	+			+	+	+		
08	40	+			+	+	+		
09	28								
10	31								
11	28								
12	31								
13	24	+							
15	46	+	+	+					
16	35	+							
17	35	+							
18	48	+			+	+			
19	53	+	+	+	+	+			
20	30								
21	22	+							
22	22	+							
23	19	+	+	+	+	+			
24	18	+	+	+	+	+	+	+	
25	19	+	+	+	+	+			
26	35	+							
27	35	+							
28	47	+	+	+	+	+	+	+	
29	31								
29D	32								
29K	32								
30	31				+	+	+		
33	55		+	+	+	+	+		
34	50	+				+			
36	28								
37	28								
38D	49								
38T	49								
39D	49				+	+			
39T	49				+	+			
40	48	+			+	+	+		
41	34								
41D	33								
41K	33								

POSEBNA IZVEDBA <i>OPTIONAL EXTRA</i>	Stranica <i>Page</i>	Prednja ploča s natpisom <i>Front plate with title (N)</i>	Mogućnost kombinacije posebnih izvedbi <i>Possible optional extra combinations</i>						
			+39D		+51				
			A0	A1	A0	A1	A2		
42	34								
43	54	+	+	+	+	+			
46	29								
47	29								
48	45								
48D	45								
49	45								
51	52	+	+	+					
53	56	+	+		+	+			
53D	56	+	+		+	+			
56	26	+	+		+				
57	39	+	+	+	+	+			
58	39	+			+	+			
58D	39	+			+	+			
61	22	+							
62	22	+							
63	20	+	+	+	+	+	+	+	
63D	20								
65	20	+	+	+	+	+	+	+	
65D	20								
66	29								
67	29								
68	41	+	+	+	+	+			
69	53	+	+	+	+	+	+	+	
71	34								
72	34								
73	21	+	+		+				
75	21	+	+		+				
76	30								
77	30								
78	41	+	+	+	+	+			
79	41	+			+	+	+	+	
84	40	+	+	+	+	+			
85	42	+	+		+				
86	43	+	+		+				
87	42	+	+	+	+	+			
88	44	+	+	+	+	+			
93	23	+	+		+				
95	23	+	+		+				
96	43	+	+		+				
98	44	+	+	+	+	+			
99	23	+					+	+	
102	38	+							
108D	37	+							
258	38	+	+	+	+	+			

39D - montaža sklopke s 2 vijka / *switch mounting with 2 screws*

51 - stupanj zaštite IP65 / *protection degree IP65*

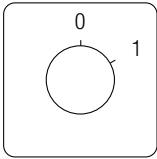
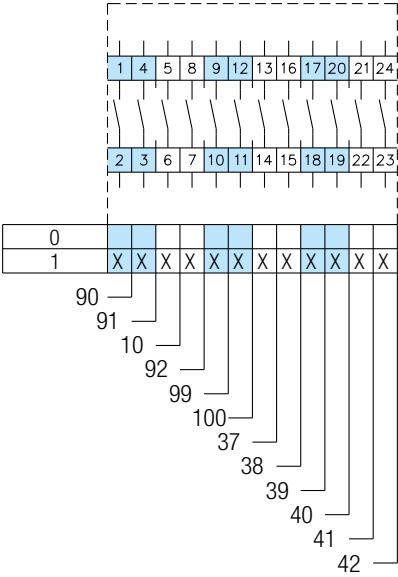
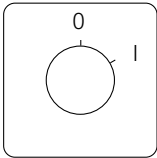
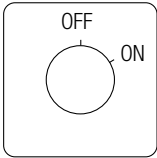
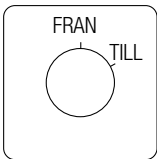
 - sadržano u toj posebnoj izvedbi / *included in this optional extra*

DIJAGRAMI SKLAPANJA

SWITCHING DIAGRAMS

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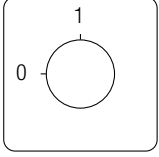
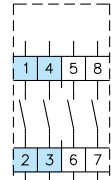
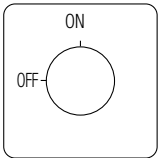
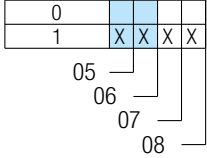
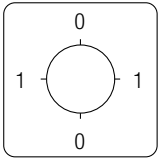
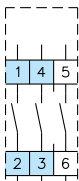
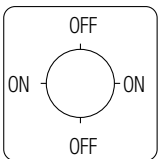
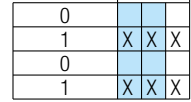
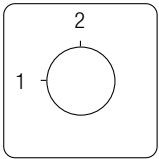
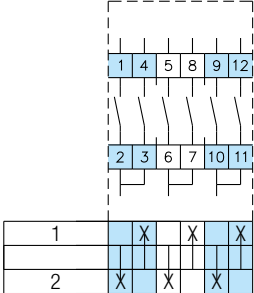
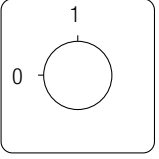
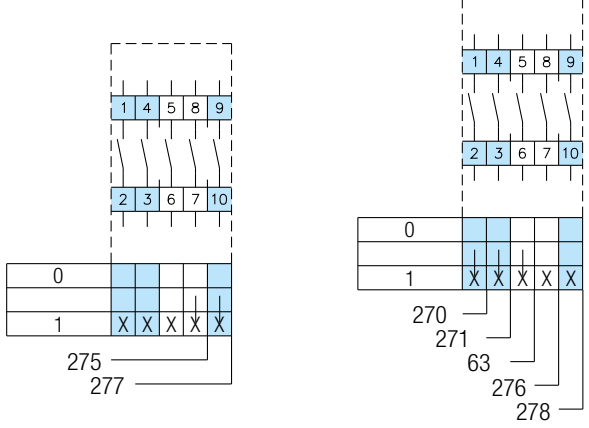
SKLOPKE S KUTOM ZAKRETA 60° SWITCHES WITH 60° SWITCHING

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole	 <p>P6001</p>	90	1	
2 polna 2 pole		91	1	
3 polna 3 pole		10	2	
4 polna 4 pole		92	2	
5 polna 5 pole		99	3	
6 polna 6 pole		100	3	
7 polna 7 pole		37	4	
8 polna 8 pole		38	4	
9 polna 9 pole		39	5	
10 polna 10 pole		40	5	
11 polna 11 pole		41	6	
12 polna 12 pole		42	6	
1 polna 1 pole	 <p>P6011</p>	C90	1	
2 polna 2 pole		C91	1	
3 polna 3 pole		C10	2	
4 polna 4 pole		C92	2	
1 polna 1 pole	 <p>P6032</p>	D90	1	
2 polna 2 pole		D91	1	
3 polna 3 pole		D10	2	
4 polna 4 pole		D92	2	
5 polna 5 pole		D99	3	
6 polna 6 pole		D100	3	
1 polna 1 pole	 <p>P6062</p>	E90	1	
2 polna 2 pole		E91	1	
3 polna 3 pole		E10	2	
4 polna 4 pole		E92	2	
5 polna 5 pole		E99	3	
6 polna 6 pole		E100	3	

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

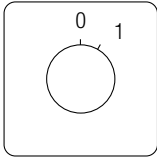
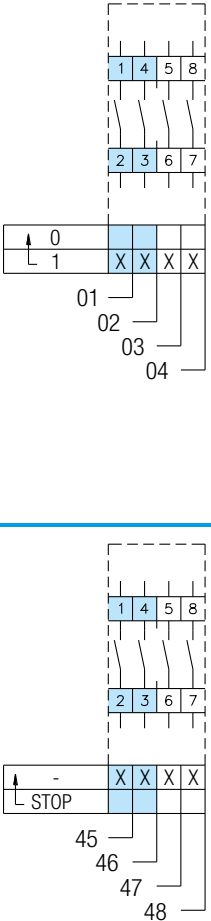
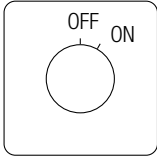
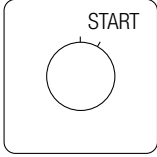
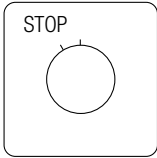
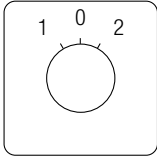
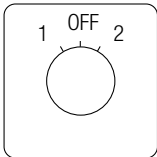
SKLOPKE S KUTOM ZAKRETA 90° SWITCHES WITH 90° SWITCHING

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole	 <p>P9037</p>	05	1	
2 polna 2 pole		06	1	
3 polna 3 pole		07	2	
4 polna 4 pole		08	2	
1 polna 1 pole	 <p>P9067</p>	C05	1	
2 polna 2 pole		C06	1	
3 polna 3 pole		C07	2	
4 polna 4 pole		C08	2	
3 polna (rotacija 360°) 3 pole (360° rotation)	 <p>P9009</p>	09	2	
3 polna (rotacija 360°) 3 pole (360° rotation)	 <p>P9066</p>	C09	2	
3 polna strujna preklopka 3 pole current change over switch	 <p>P9049</p>	57	3	
4 polna 1 pol prethodi 4 pole 1 pole preclose	 <p>P9037</p>	275	2	
5 polna 2 pola prethode 5 pole 2 pole preclose		277	3	
1 polna raniji uklop 1 pole early make		270	1	
2 polna raniji uklop 2 pole early make		271	1	
3 polna raniji uklop 3 pole early make		63	2	
4 polna 3 pola prethode 4 pole 3 pole preclose	276	2		
5 polna 3 pola prethode 5 pole 3 pole preclose	278	3		

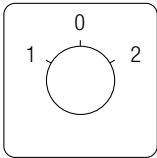
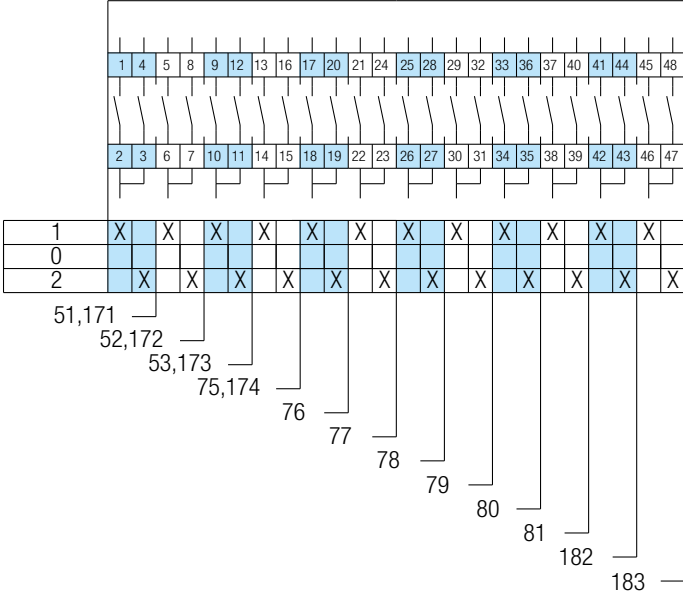
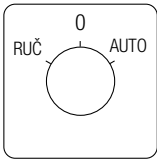
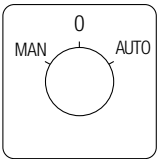
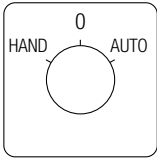
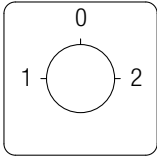
* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

SKLOPKE S POVRATOM - KUT ZAKRETA 30° SWITCHES SPRING RETURN WITH 30° SWITCHING

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram
1 polna 1 pole	 P3001	01	1	
2 polna 2 pole		02	1	
3 polna 3 pole		03	2	
4 polna 4 pole		04	2	
1 polna 1 pole	 P3045	C01	1	
2 polna 2 pole		C02	1	
3 polna 3 pole		C03	2	
4 polna 4 pole		C04	2	
1 polna 1 pole	 P3101	D01	1	
2 polna 2 pole		D02	1	
3 polna 3 pole		D03	2	
4 polna 4 pole		D04	2	
1 polna 1 pole	 P3102	45	1	
2 polna 2 pole		46	1	
3 polna 3 pole		47	2	
4 polna 4 pole		48	2	
1 polna 1 pole	s povratom u "0" with spring return to "0"	 P3021	201	1
2 polna 2 pole			202	2
3 polna 3 pole			203	3
1 polna 1 pole	s povratom u "0" with spring return to "0"	 P3071	C201	1
2 polna 2 pole			C202	2
3 polna 3 pole			C203	3

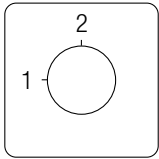
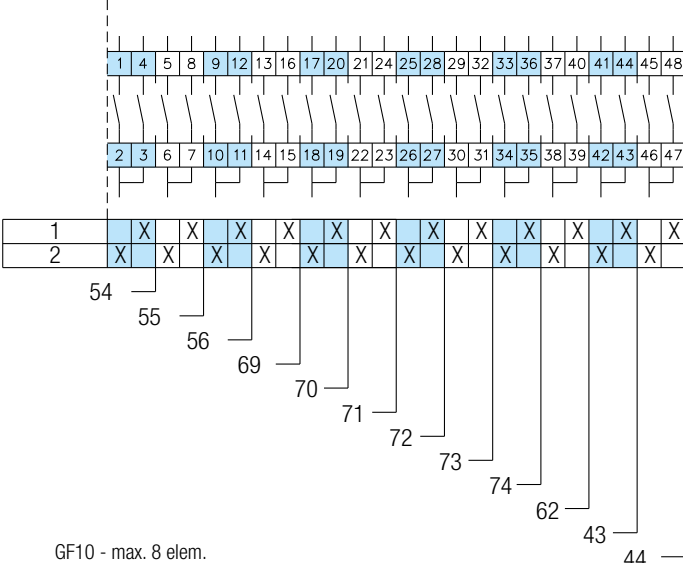
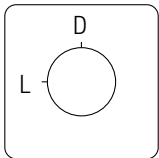
PREKLOPKE S "0" POLOŽAJEM CHANGEOVER SWITCHES WITH "0"

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole	 <p>P6012</p>	51	1	
2 polna 2 pole		52	2	
3 polna 3 pole		53	3	
4 polna 4 pole		75	4	
5 polna 5 pole		76	5	
6 polna 6 pole		77	6	
7 polna 7 pole		78	7	
8 polna 8 pole		79	8	
9 polna 9 pole		80	9	
10 polna 10 pole		81	10	
11 polna 11 pole		182	11	
12 polna 12 pole		183	12	
1 polna 1 pole	 <p>P6020</p>	C51	1	
2 polna 2 pole		C52	2	
3 polna 3 pole		C53	3	
4 polna 4 pole		C75	4	
5 polna 5 pole		C76	5	
6 polna 6 pole		C77	6	
1 polna 1 pole	 <p>P6021</p>	D51	1	
2 polna 2 pole		D52	2	
3 polna 3 pole		D53	3	
4 polna 4 pole		D75	4	
5 polna 5 pole		D76	5	
6 polna 6 pole		D77	6	
1 polna 1 pole	 <p>P6063</p>	E51	1	
2 polna 2 pole		E52	2	
3 polna 3 pole		E53	3	
4 polna 4 pole		E75	4	
5 polna 5 pole		E76	5	
6 polna 6 pole		E77	6	
1 polna 1 pole	 <p>P9004</p>	171	1	
2 polna 2 pole		172	2	
3 polna 3 pole		173	3	
4 polna 4 pole		174	4	

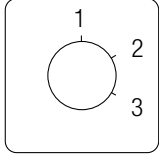
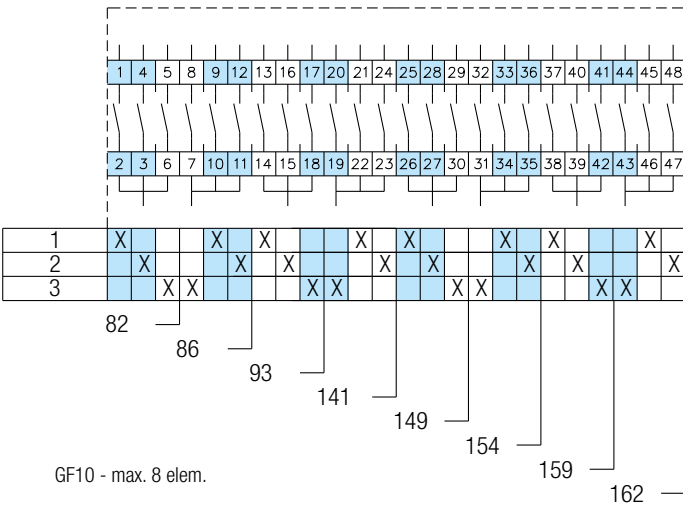
* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

PREKLOPKE BEZ "0" POLOŽAJA CHANGEOVER SWITCHES WITHOUT "0"

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole	 <p>P9049</p>	54	1	 <p>GF10 - max. 8 elem.</p>
2 polna 2 pole		55	2	
3 polna 3 pole		56	3	
4 polna 4 pole		69	4	
5 polna 5 pole		70	5	
6 polna 6 pole		71	6	
7 polna 7 pole		72	7	
8 polna 8 pole		73	8	
9 polna 9 pole		74	9	
10 polna 10 pole		62	10	
11 polna 11 pole		43	11	
12 polna 12 pole		44	12	
1 polna 1 pole	 <p>P9060</p>	C54	1	
2 polna 2 pole		C55	2	
3 polna 3 pole		C56	3	
4 polna 4 pole		C69	4	

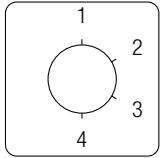
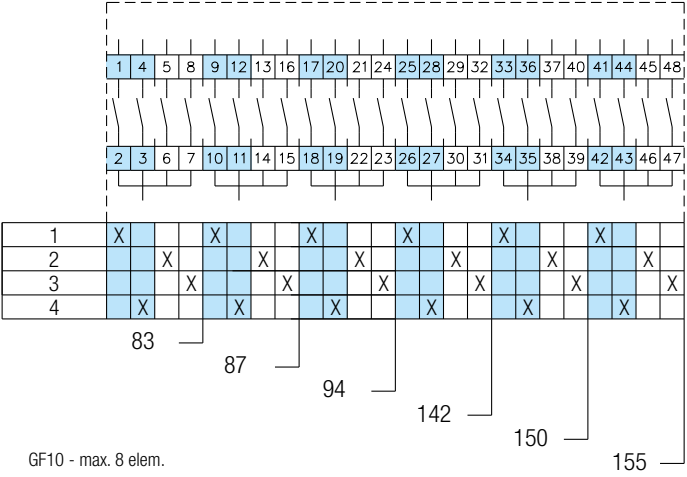
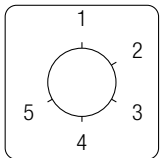
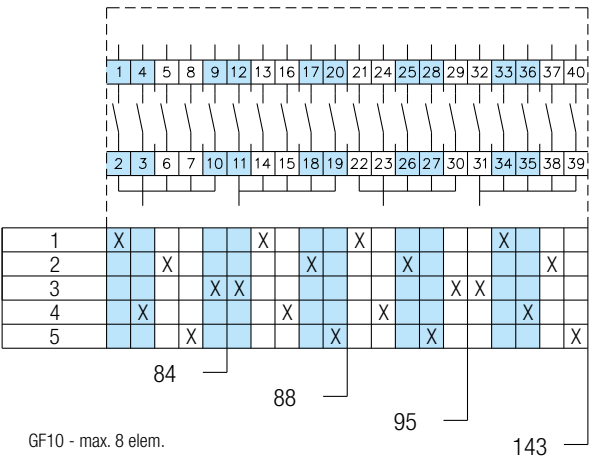
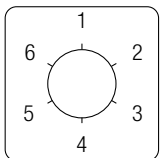
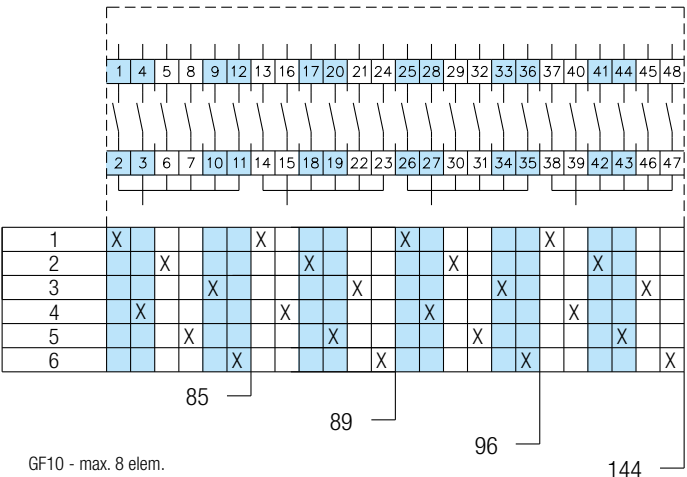
STEPENASTE SKLOPKE BEZ "0" POLOŽAJA MULTI-STEP SWITCHES WITHOUT "0"

1 polna 1 pole	 <p>P6023</p>	82	2	 <p>GF10 - max. 8 elem.</p>	
2 polna 2 pole		86	3		
3 polna 3 pole		93	5		
4 polna 4 pole		141	6		
5 polna 5 pole		149	8		
6 polna 6 pole		154	9		
7 polna 7 pole		159	11		
8 polna 8 pole		162	12		
3 položaja 3 positions					

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

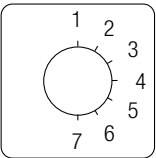
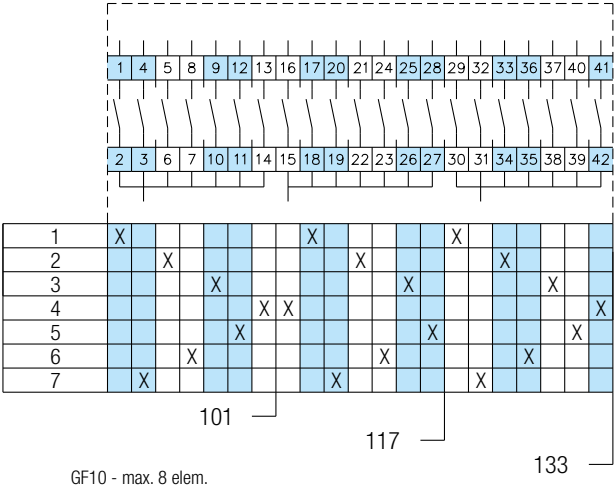
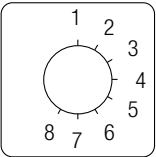
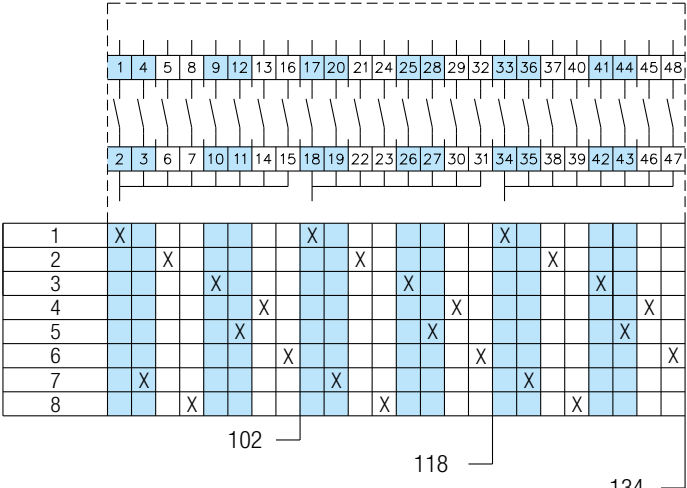
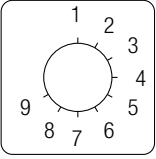
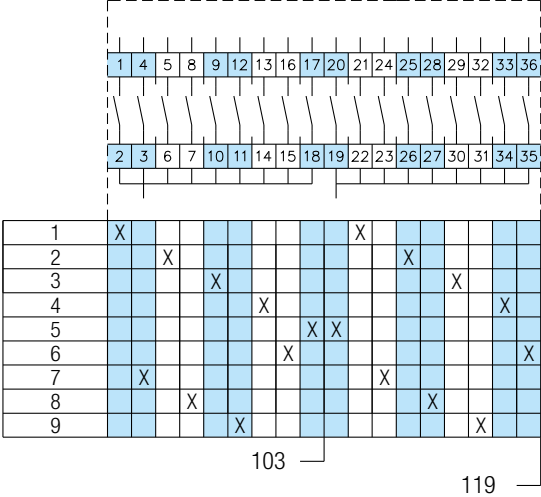
STEPENASTE SKLOPKE BEZ "0" POLOŽAJA *MULTI-STEP SWITCHES WITHOUT "0"*

Funkcija <i>Function</i>	Podloga <i>Escutcheon plate</i>	Kod <i>Code</i>	Br. elem.* <i>No. of elem.*</i>	Dijagram <i>Diagram</i>	
1 polna <i>1 pole</i>	 <p>P6024</p>	83	2	 <p>GF10 - max. 8 elem.</p>	
2 polna <i>2 pole</i>		87	4		
3 polna <i>3 pole</i>		94	6		
4 polna <i>4 pole</i>		142	8		
5 polna <i>5 pole</i>		150	10		
6 polna <i>6 pole</i>		155	12		
1 polna <i>1 pole</i>	 <p>P6025</p>	84	3	 <p>GF10 - max. 8 elem.</p>	
2 polna <i>2 pole</i>		88	5		
3 polna <i>3 pole</i>		95	8		
4 polna <i>4 pole</i>		143	10		
1 polna <i>1 pole</i>	 <p>P6026</p>	85	3	 <p>GF10 - max. 8 elem.</p>	
2 polna <i>2 pole</i>		89	6		
3 polna <i>3 pole</i>		96	9		
4 polna <i>4 pole</i>		144	12		

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

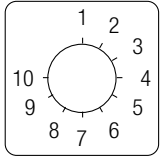
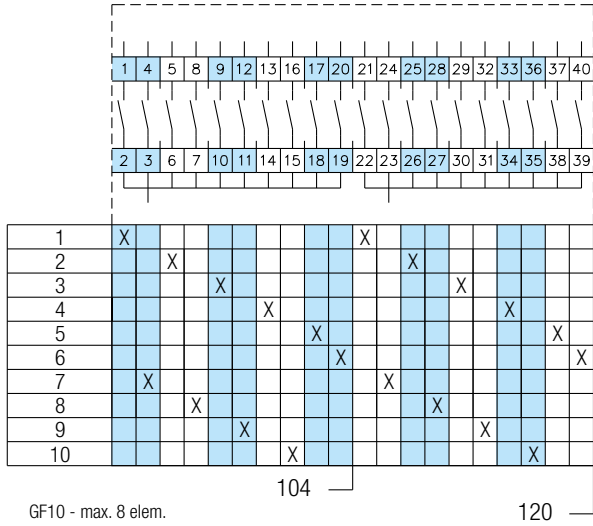
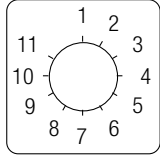
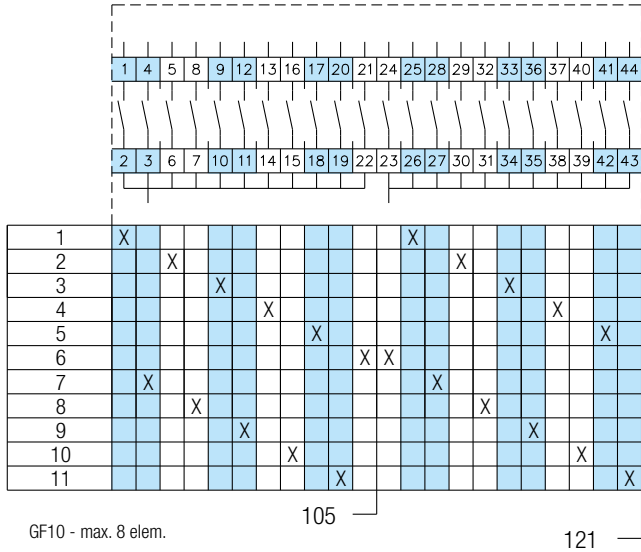
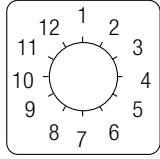
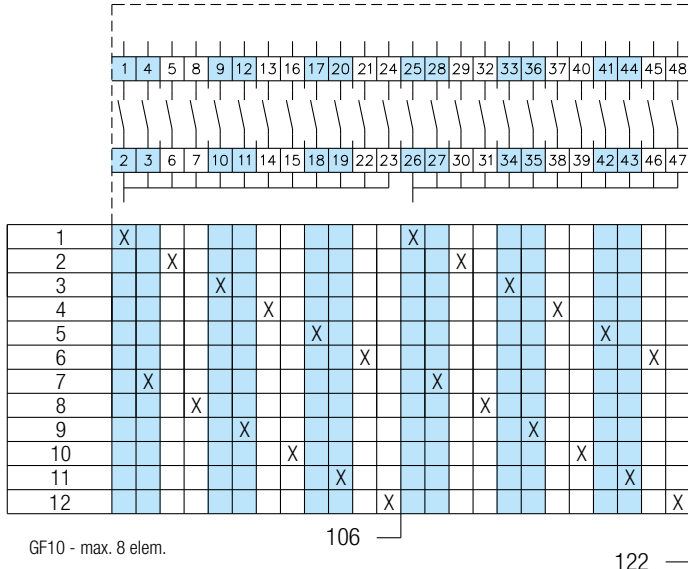
STEPENASTE SKLOPKE BEZ "0" POLOŽAJA *MULTI-STEP SWITCHES WITHOUT "0"*

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole 2 polna 2 pole 3 polna 3 pole	7 položaja 7 positions  P3078	101 117 133	4 7 11	 GF10 - max. 8 elem.
1 polna 1 pole 2 polna 2 pole 3 polna 3 pole	8 položaja 8 positions  P3079	102 118 134	4 8 12	 GF10 - max. 8 elem.
1 polna 1 pole 2 polna 2 pole	9 položaja 9 positions  P3080	103 119	5 9	 GF10 - max. 8 elem.

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

STEPENASTE SKLOPKE BEZ "0" POLOŽAJA *MULTI-STEP SWITCHES WITHOUT "0"*

Funkcija <i>Function</i>	Podloga <i>Escutcheon plate</i>	Kod <i>Code</i>	Br. elem.* <i>No. of elem.*</i>	Dijagram <i>Diagram</i>
1 polna <i>1 pole</i> 2 polna <i>2 pole</i>	10 položaja <i>10 positions</i>  P3081	104 120	5 10	 <p>GF10 - max. 8 elem.</p>
1 polna <i>1 pole</i> 2 polna <i>2 pole</i>	11 položaja <i>11 positions</i>  P3082	105 121	6 11	 <p>GF10 - max. 8 elem.</p>
1 polna <i>1 pole</i> 2 polna <i>2 pole</i>	12 položaja <i>12 positions</i>  P3083	106 122	6 12	 <p>GF10 - max. 8 elem.</p>

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

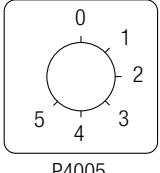
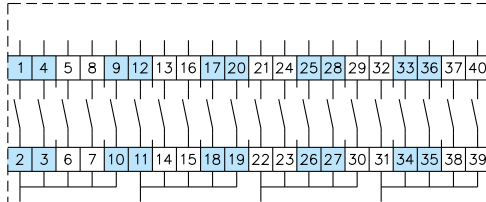
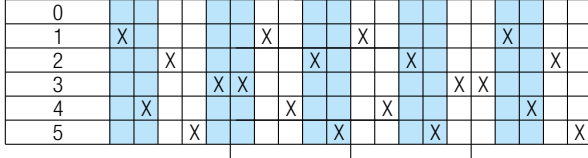
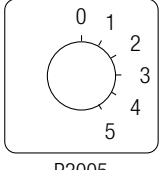
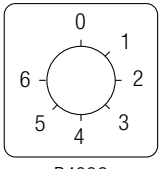
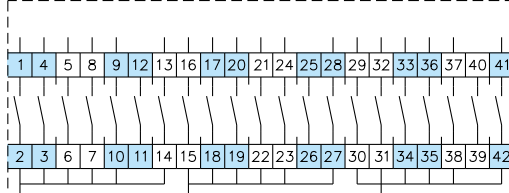
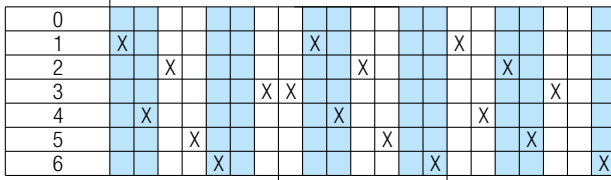
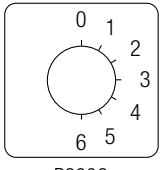
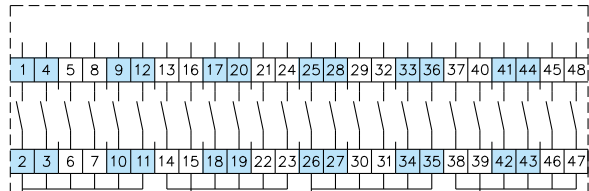
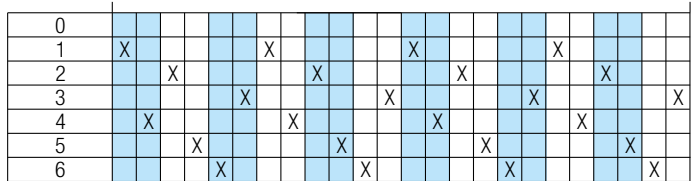
STEPENASTE SKLOPKE S "0" POLOŽAJEM *MULTI-STEP SWITCHES WITH "0"*

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram	
1 polna 1 pole	2 položaja 2 positions	107	1		
2 polna 2 pole		123	2		
3 polna 3 pole		135	3		
4 polna 4 pole		145	4		
5 polna 5 pole		151	5		
6 polna 6 pole	<p>P6006</p>	156	6		
7 polna 7 pole		160	7		
8 polna 8 pole		163	8		
9 polna 9 pole		175	9		
10 polna 10 pole		176	10		
11 polna 11 pole		177	11		
12 polna 12 pole		178	12		
				GF10 - max. 8 elem.	
1 polna 1 pole	3 položaja 3 positions	108	2		
2 polna 2 pole		124	3		
3 polna 3 pole		136	5		
4 polna 4 pole		146	6		
5 polna 5 pole	za / for GF, GX, 4G GN12 - GN63	152	8		
6 polna 6 pole	<p>P3003</p>	157	9		
7 polna 7 pole		161	11		
8 polna 8 pole		164	12		
					GF10 - max. 8 elem.
1 polna 1 pole	4 položaja 4 positions	109	2		
2 polna 2 pole		125	4		
3 polna 3 pole		137	6		
4 polna 4 pole	za / for GF, GX, 4G GN12 - GN63	147	8		
5 polna 5 pole	<p>P3004</p>	153	10		
6 polna 6 pole		158	12		
				GF10 - max. 8 elem.	

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

STEPENASTE SKLOPKE S "0" POLOŽAJEM *MULTI-STEP SWITCHES WITH "0"*

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem.* No. of elem.*	Dijagram Diagram
1 polna 1 pole 2 polna 2 pole 3 polna 3 pole 4 polna 4 pole	za / for GN125  P4005	110	3	  GF10 - max. 8 elem.
		126	5	
		138	8	
		148	10	
	za / for GF, GX, 4G GN12 - GN63  P3005			
1 polna 1 pole 2 polna 2 pole 3 polna 3 pole 4 polna 4 pole	za / for GN125  P4006	111	4	  za / for G/4G, GF10 GF10 - max. 8 elem.
		127	7	
		139	11	
1 polna 1 pole 2 polna 2 pole 3 polna 3 pole 4 polna 4 pole	za / for GF, GX, 4G GN12 - GN63  P3006	111	3	  za / for GX, GN, GF20
		127	6	
		139	9	
		179	12	

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

STEPENASTE SKLOPKE S "0" POLOŽAJEM *MULTI-STEP SWITCHES WITH "0"*

Funkcija
Function

Podloga
Escutcheon plate

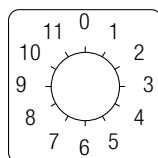
Kod
Code

Br. elem.*
No. of elem.*

Dijagram
Diagram

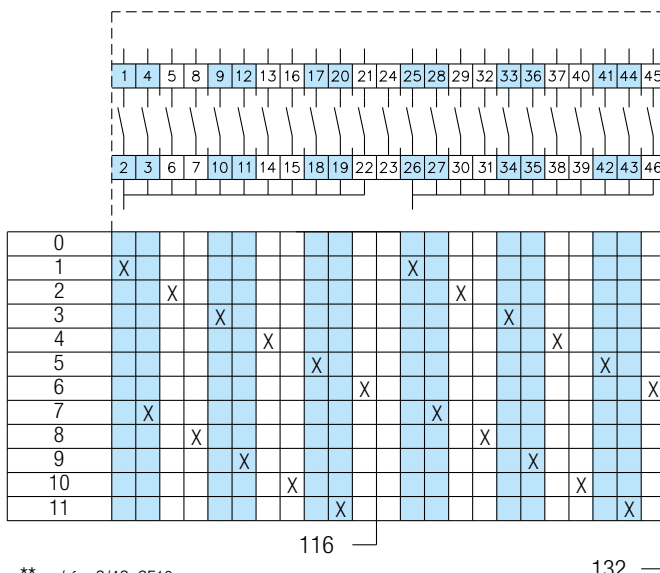
1 polna
1 pole
2 polna
2 pole

11 položaja
11 positions



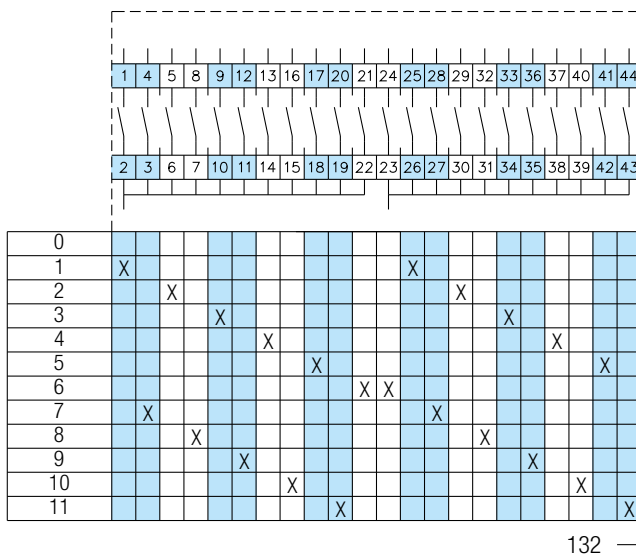
P3011

116 6
132** 12



** za / for G/4G, GF10
GF10 - max. 8 elem.

132 11



za / for GX, GN, GF20

* broj elemenata sklopki G/4G - vidi stranice 108 - 109

* number of elements for switches G/4G - see pages 108 - 109

GRUPNE SKLOPKE GANG SWITCHES

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram																
<p>2 GRUPE Sklopni slijed: 0, A, A+B 2 GANG Switching sequence: 0, A, A+B</p> <p>1 polna 1 pole</p>	<p>P6045</p>	251	1	<table border="1"> <tr><td>0</td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td></tr> </table>	0			1	X	X	2	X	X							
0																				
1	X	X																		
2	X	X																		
<p>3 GRUPE Sklopni slijed: 0, A, A+B, A+B+C 3 GANG Switching sequence: 0, A, A+B, A+B+C</p> <p>2 polna 2 pole</p>	<p>P3048</p>	254	2	<table border="1"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td></tr> </table>	0				1	X	X	X	2	X	X	X	3	X	X	X
0																				
1	X	X	X																	
2	X	X	X																	
3	X	X	X																	
<p>2 GRUPE Sklopni slijed: 0, A, A+B 2 GANG Switching sequence: 0, A, A+B</p> <p>2 polna 2 pole</p>	<p>P6045</p>	252	2	<table border="1"> <tr><td>0</td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td></tr> </table>	0			1	X	X	2	X	X							
0																				
1	X	X																		
2	X	X																		
<p>3 GRUPE Sklopni slijed: 0, A, A+B, A+B+C 3 GANG Switching sequence: 0, A, A+B, A+B+C</p> <p>2 polna 2 pole</p>	<p>P3048</p>	255	3	<table border="1"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td></tr> </table>	0				1	X	X	X	2	X	X	X	3	X	X	X
0																				
1	X	X	X																	
2	X	X	X																	
3	X	X	X																	

GRUPNE SKLOPKE GANG SWITCHES

Funkcija
Function

Podloga
Escutcheon plate

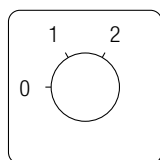
Kod
Code

Br. elem.
No. of elem.

Dijagram
Diagram

3 polna
3 pole

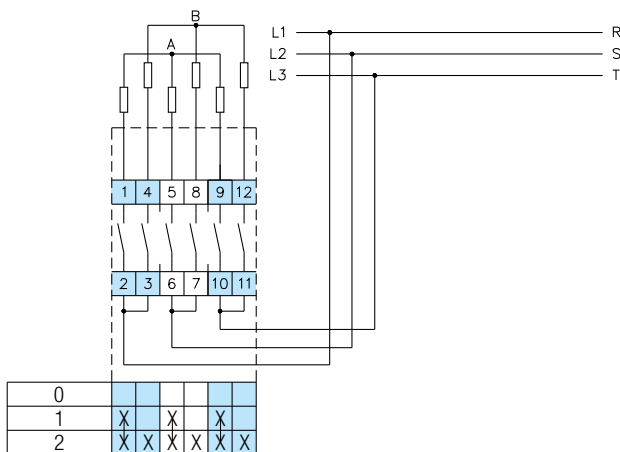
2 GRUPE
Sklopni slijed:
0, A, A+B
2 GANG
Switching sequence:
0, A, A+B



P6045

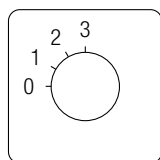
253

3



3 polna
3 pole

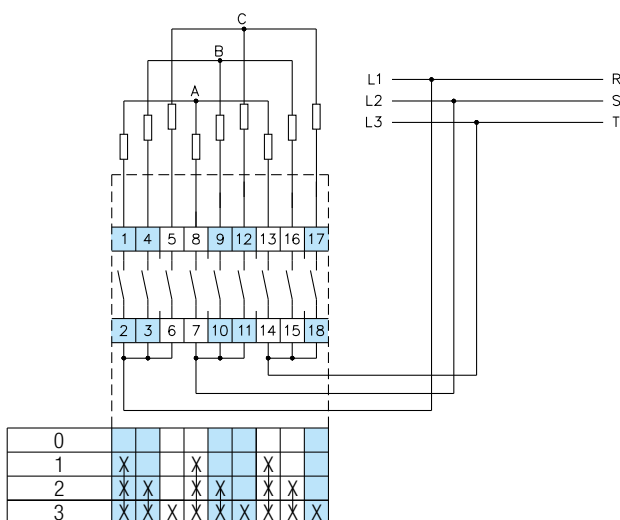
3 GRUPE
Sklopni slijed:
0, A, A+B, A+B+C
3 GANG
Switching sequence:
0, A, A+B, A+B+C



P3048

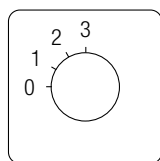
256

5



1 polna
1 pole

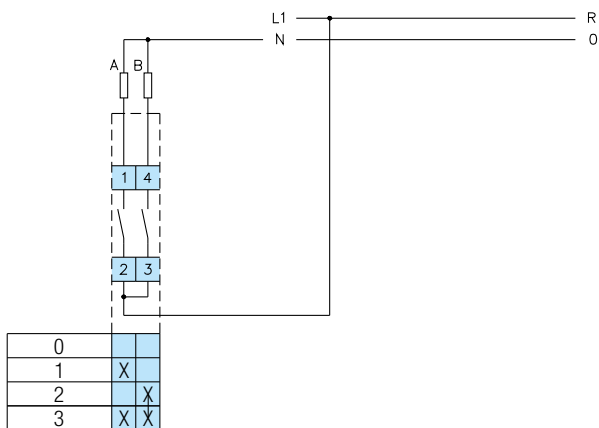
2 GRUPE
Sklopni slijed:
0, A, B, A+B
2 GANG
Switching sequence:
0, A, B, A+B



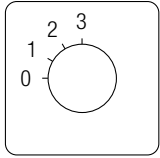
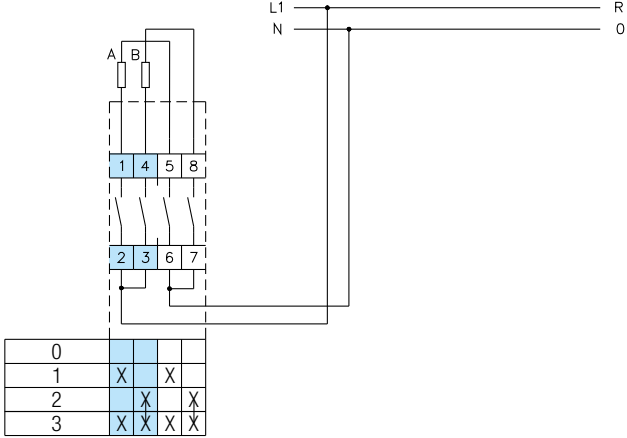
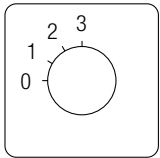
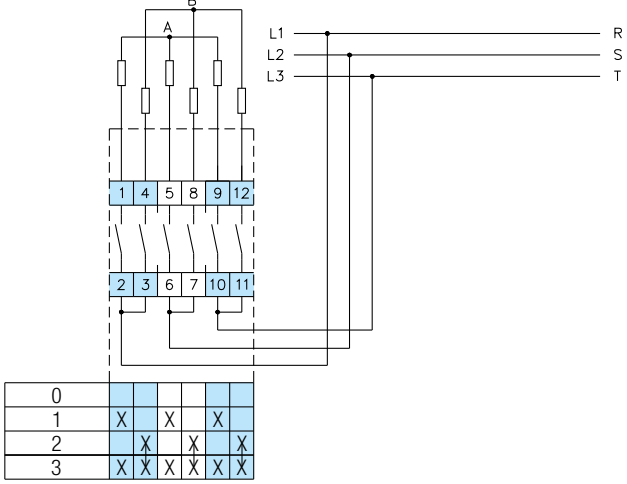
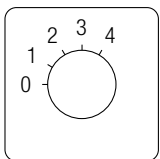
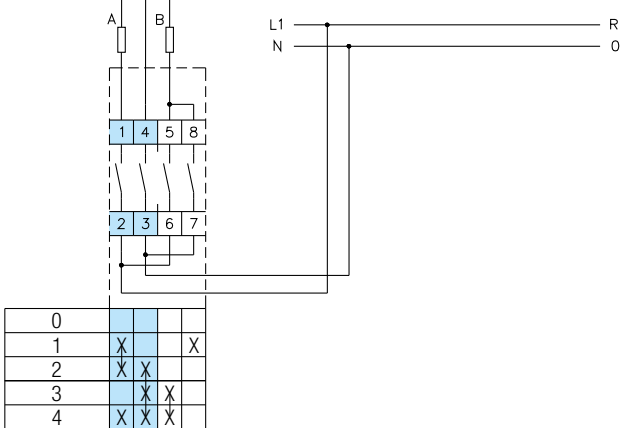
P3048

257

1



GRUPNE SKLOPKE GANG SWITCHES

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram																									
<p>2 polna 2 pole</p> <p>2 GRUPE Sklopni slijed: 0, A, B, A+B 2 GANG Switching sequence: 0, A, B, A+B</p>	 <p>P3048</p>	258	2	 <table border="1" data-bbox="831 757 1034 857"> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	0					1	X		X		2		X		X	3	X	X	X	X					
0																													
1	X		X																										
2		X		X																									
3	X	X	X	X																									
<p>3 polna 3 pole</p> <p>2 GRUPE Sklopni slijed: 0, A, B, A+B 2 GANG Switching sequence: 0, A, B, A+B</p>	 <p>P3048</p>	259	3	 <table border="1" data-bbox="831 1361 1082 1462"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td>X</td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>3</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>	0						1	X		X		X	2		X		X	X	3	X	X	X	X	X	
0																													
1	X		X		X																								
2		X		X	X																								
3	X	X	X	X	X																								
<p>2 polna 2 pole</p> <p>2 GRUPE Sklopni slijed: 0, A+B serijski, A, B, A+B paralelno 2 GANG Switching sequence: 0, A+B series, A, B, A+B parallel</p>	 <p>P3049</p>	260	2	 <table border="1" data-bbox="831 1888 1034 2011"> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td><td></td></tr> <tr><td>3</td><td></td><td>X</td><td>X</td><td></td></tr> <tr><td>4</td><td>X</td><td>X</td><td>X</td><td></td></tr> </table>	0					1	X			X	2	X	X			3		X	X		4	X	X	X	
0																													
1	X			X																									
2	X	X																											
3		X	X																										
4	X	X	X																										

VOLTMETARSKE SKLOPKE *VOLTMETER SWITCHES*

Funkcija
Function

Podloga
Escutcheon plate

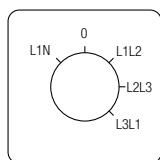
Kod
Code

Br. elem.
No. of elem.

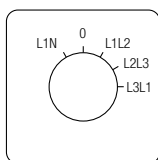
Dijagram
Diagram

za / for
GX, GN, GF20

za / for
4G200, GF10



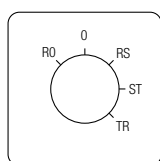
P4051



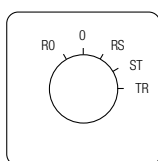
P3035

60

3



P4052

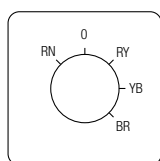


P3036

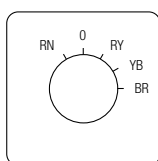
C 60

3

3 linijska napona i
1 fazni napon
*3 line voltage and
1 phase voltage*



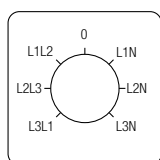
P4053



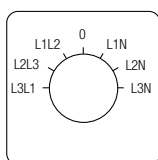
P3031

D 60

3



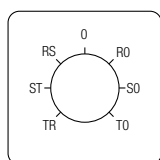
P4054



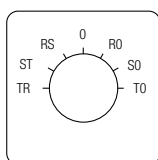
P3027

66

3



P4057

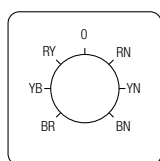


P3026

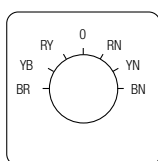
C 66

3

3 linijska napona i
3 fazna napona
*3 line voltage and
3 phase voltage*



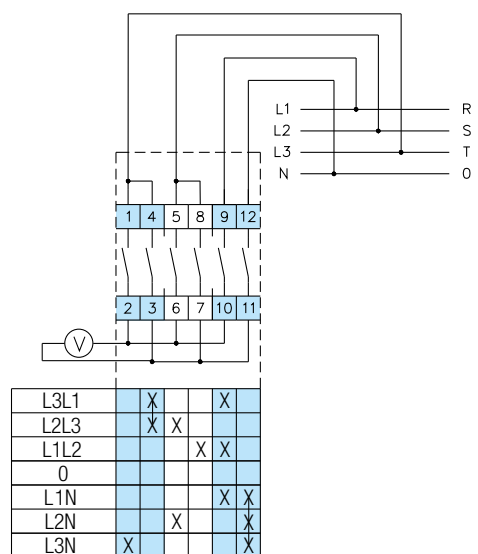
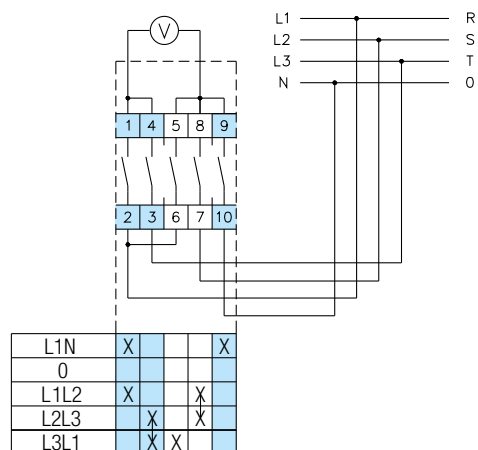
P4058



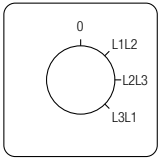
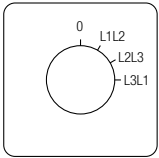
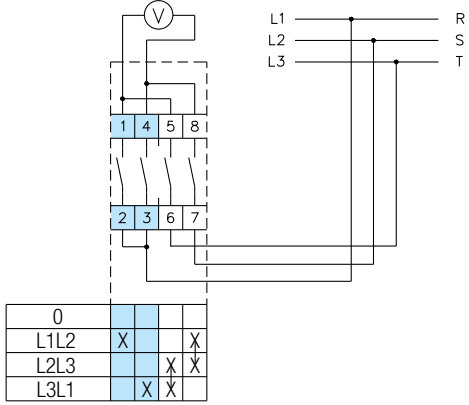
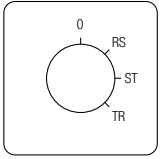
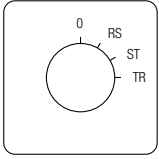
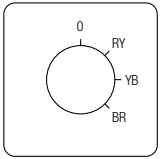
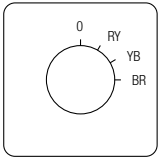
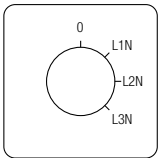
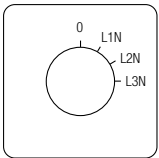
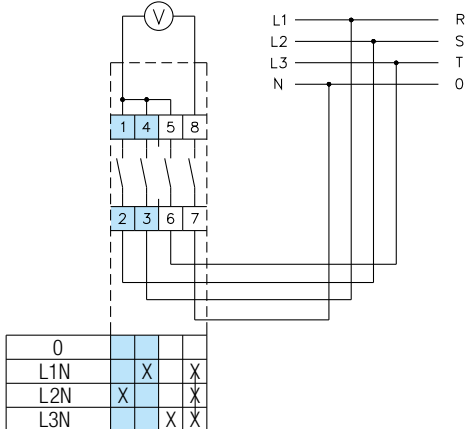
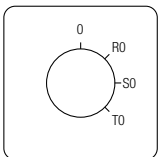
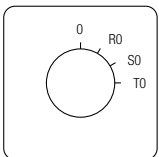
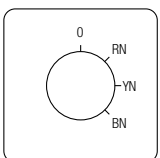
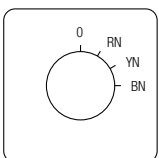
P3028

D 66

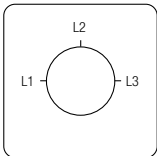
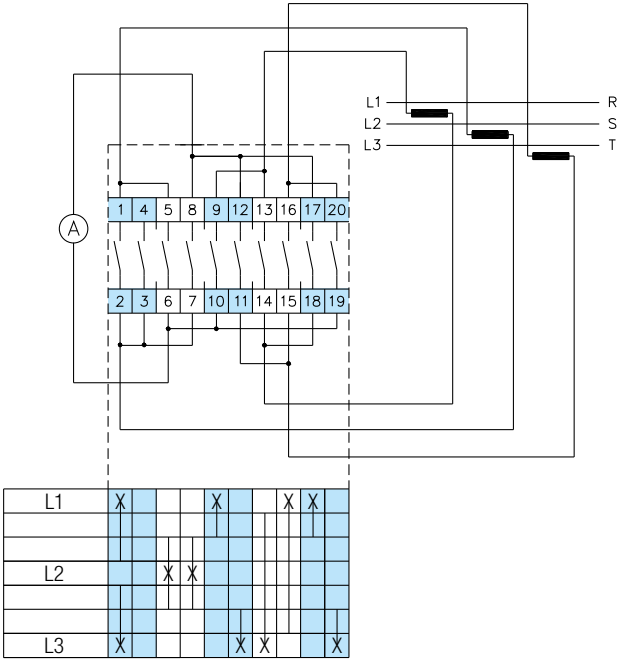
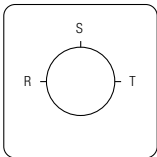
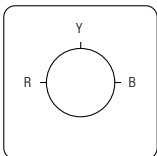
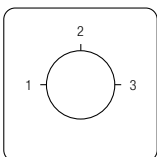
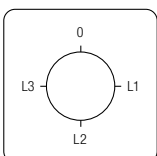
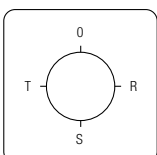
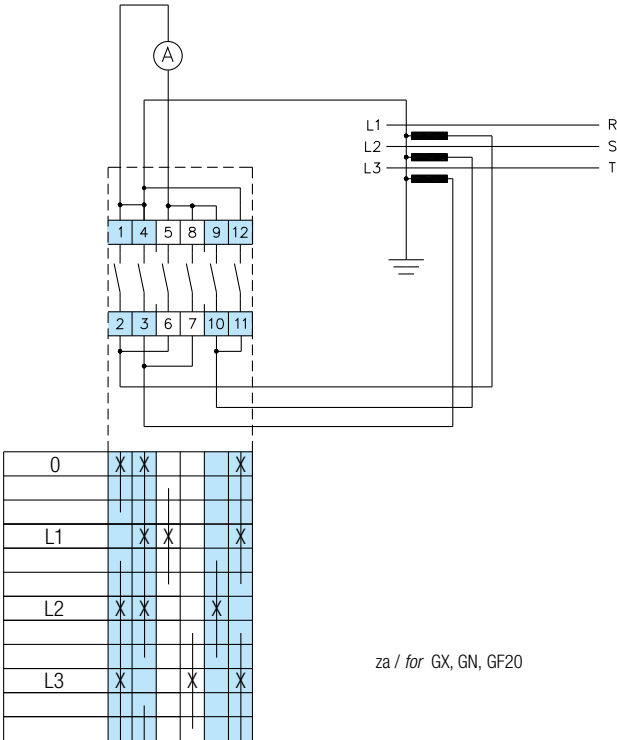
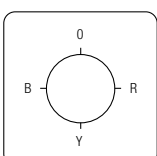
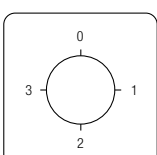
3



VOLTMETARSKE SKLOPKE *VOLTMETER SWITCHES*

Funkcija <i>Function</i>	Podloga <i>Escutcheon plate</i>	Kod <i>Code</i>	Br. elem. <i>No. of elem.</i>	Dijagram <i>Diagram</i>																	
3 linijska napona <i>3 line voltage</i>	<p>za / for GX, GN, GF20</p>  <p>P4055</p>	<p>za / for 4G200, GF10</p>  <p>P3015</p>	67	2	 <table border="1" data-bbox="970 887 1177 987"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>L1L2</td><td>X</td><td></td><td>X</td></tr> <tr><td>L2L3</td><td></td><td>X</td><td>X</td></tr> <tr><td>L3L1</td><td>X</td><td>X</td><td></td></tr> </table>	0				L1L2	X		X	L2L3		X	X	L3L1	X	X	
	0																				
	L1L2	X		X																	
	L2L3		X	X																	
	L3L1	X	X																		
	 <p>P4059</p>	 <p>P3013</p>	C 67	2																	
 <p>P4060</p>	 <p>P3019</p>	D 67	2																		
3 fazna napona <i>3 phase voltage</i>	 <p>P4056</p>	 <p>P3014</p>	68	2	 <table border="1" data-bbox="970 1765 1177 1861"> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>L1N</td><td></td><td>X</td><td>X</td></tr> <tr><td>L2N</td><td>X</td><td></td><td>X</td></tr> <tr><td>L3N</td><td>X</td><td>X</td><td></td></tr> </table>	0				L1N		X	X	L2N	X		X	L3N	X	X	
	0																				
	L1N		X	X																	
	L2N	X		X																	
	L3N	X	X																		
	 <p>P4061</p>	 <p>P3012</p>	C 68	2																	
 <p>P4062</p>	 <p>P3017</p>	D 68	2																		

AMPERMETARSKE SKLOPKE AMMETER SWITCHES

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram
<p>2polna 3 struje (sa ili bez strujnih transformatora) 2 pole 3 currents (with or without current transformers)</p>	 P9057	58	5	
	 P9055	C 58	5	
	 P9074	D 58	5	
	 P9050	E 58	5	
	 P9007	98	3	
<p>1polna 3 struje (sa strujnim transformatorom) 1 pole 3 currents (with current transformer)</p>	 P9014	C 98	3	
	 P9008	D 98	3	
	 P9003	E 98	3	

VOLTMETAR - AMPERMETARSKE SKLOPKE *VOLTMETER - AMMETER SWITCHES*

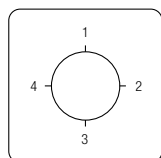
Funkcija
Function

Podloga
Escutcheon plate

Kod
Code

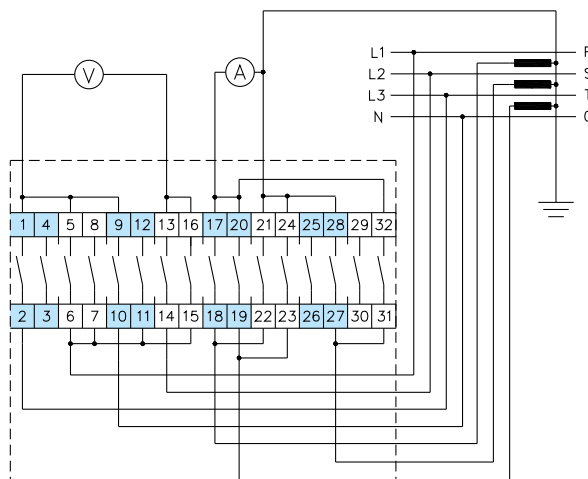
Br. elem.
No. of elem.

Dijagram
Diagram



P9047

61 8

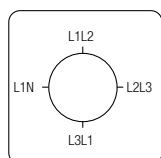


L1 L2			X			X			X	X	X	
L2 L3	X				X		X		X	X		
L3 L1	X				X			X	X			X
L1N				X		X		X	X		X	

za / for G/4G, GF10

3 linijska napona
1 fazni napon
3 struje

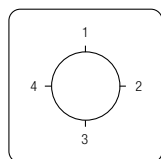
3 line voltage
1 phase voltage
3 currents



P9079

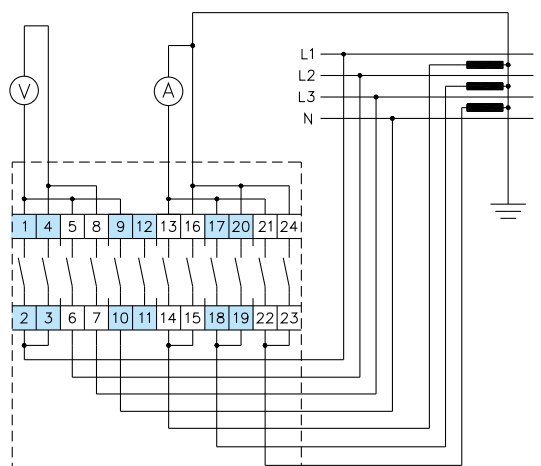
C 61 8

poz.	napon voltage	struja currents
1	L1L2	-
2	L2L3	L1
3	L3L1	L2
4	L1N	L3



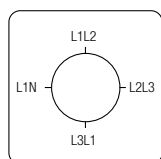
P9047

61 6



L1 L2		X	X				X	X	X	
L2 L3		X	X			X		X	X	
L3 L1	X			X			X	X		X
L1N	X			X			X	X	X	

za / for GX, GN, GF20



P9079

C 61 6

VOLTMETAR - AMPERMETARSKE SKLOPKE VOLTmeter - AMmeter SWITCHES

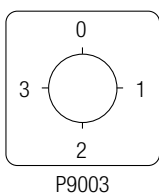
Funkcija
Function

Podloga
Escutcheon plate

Kod
Code

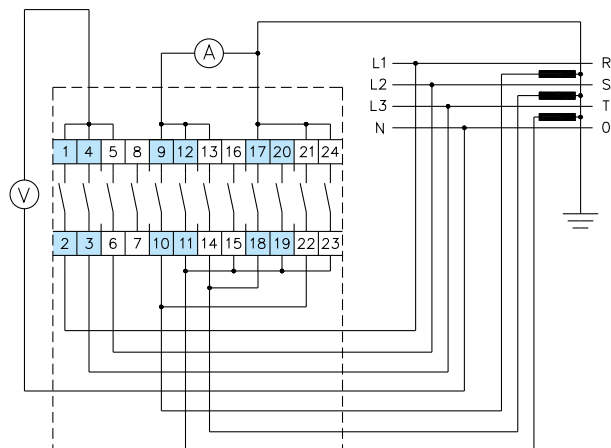
Br. elem.
No. of elem.

Dijagram
Diagram



64

6

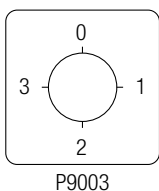


0										X	X	X
1	X				X				X			X
2			X				X				X	X
3		X				X			X	X		

za / for G/4G, GF10

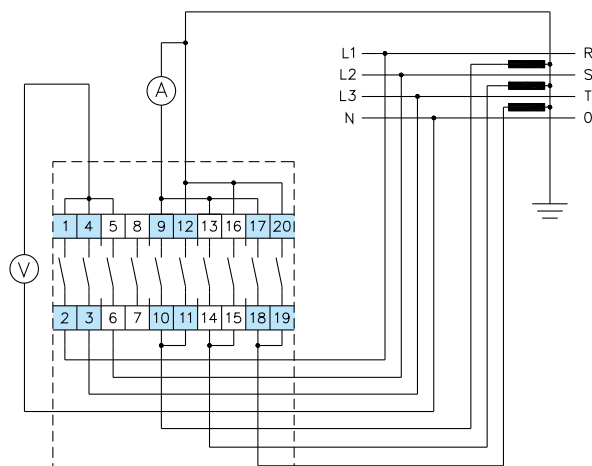
3 fazna napona
3 struje
3 phase voltage
3 currents

poz.	napon voltage	struja currents
0	-	-
1	L1N	L1
2	L2N	L2
3	L3N	L3



64

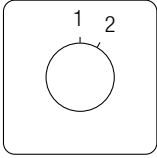
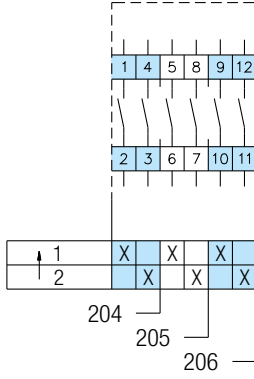
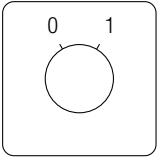
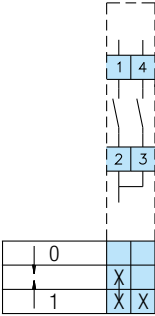
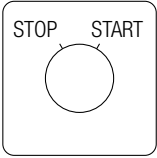
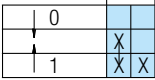
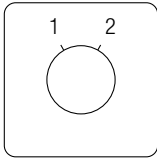
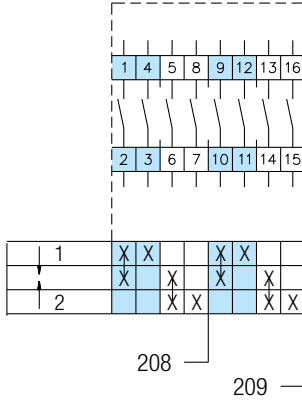
5



0										X	X	X
1	X				X				X			X
2			X				X	X				X
3		X				X			X	X		

za / for GX, GN, GF20

UPRAVLJAČKE SKLOPKE (s povratom) CONTROL SWITCHES (with spring return)

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram
<p>1 uklop i 1 isklup 1 make and 1 break</p> <p>2 uklopa i 2 isklupa 2 makes and 2 breaks</p> <p>3 uklopa i 3 isklupa 3 makes and 3 breaks</p>	 <p>P3073</p>	<p>204</p> <p>205</p> <p>206</p>	<p>1</p> <p>2</p> <p>3</p>	
<p>1 uklop desno i 1 isklup lijevo 1 make right and 1 break left</p>	 <p>P6064</p>	<p>207</p>	<p>1</p>	
	 <p>P6065</p>	<p>C207</p>	<p>1</p>	
<p>1 uklop, 1 isklup desno 1 uklop, 1 isklup lijevo 1 make, 1 break right 1 make, 1 break left</p> <p>2 uklopa, 2 isklupa desno 2 uklopa, 2 isklupa lijevo 2 makes, 2 breaks right 2 makes, 2 breaks left</p>	 <p>P6058</p>	<p>208</p> <p>209</p>	<p>2</p> <p>4</p>	

UPRAVLJAČKE SKLOPKE (s povratom) CONTROL SWITCHES (with spring return)

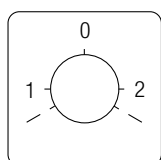
Funkcija
Function

Podloga
Escutcheon plate

Kod
Code

Br. elem.
No. of elem.

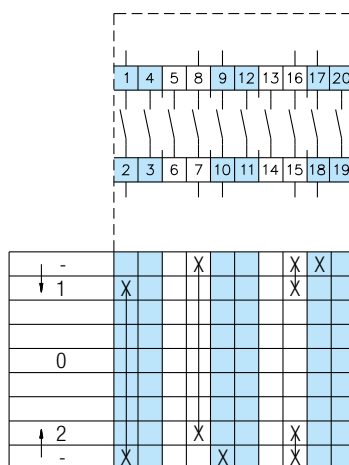
Dijagram
Diagram



P0002

210

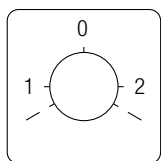
5



za / for G/4G, GF10

Sklopka sa zakretnim tipkalom lijevo i desno

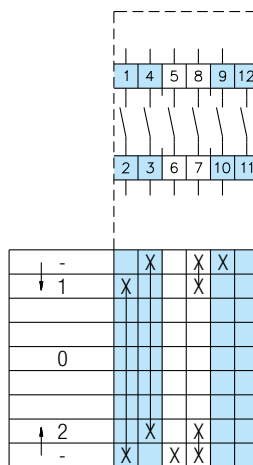
Switch with spring return left and right



P0002

210

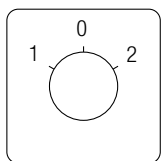
3



za / for GX, GN, GF20

MOTORSKE REVERZIBILNE SKLOPKE MOTOR REVERSING SWITCHES

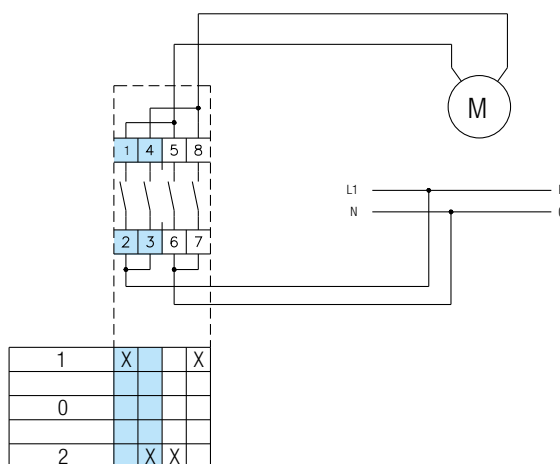
2 polna
2 pole



P6012

24

2



MOTORSKE REVERZIBILNE SKLOPKE MOTOR REVERSING SWITCHES

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram															
		11	3																
3 polna 3 pole		C11	3																
		D11	3	<table border="1"> <tr><td>1</td><td>X</td><td>X</td><td>X</td></tr> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td></td><td>X</td></tr> </table>	1	X	X	X	0				2	X		X			
1	X	X	X																
0																			
2	X		X																
2 polna povrat iz 2 u "0" 2 pole return from 2 to "0"		14	2	 <table border="1"> <tr><td>1</td><td>X</td><td></td><td>X</td></tr> <tr><td>0</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td></td></tr> </table>	1	X		X	0				2	X	X				
1	X		X																
0																			
2	X	X																	
3 polna povrat iz 2 u "0" 3 pole return from 2 to "0"		166	3	 <table border="1"> <tr><td>1</td><td>X</td><td></td><td>X</td><td>X</td></tr> <tr><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>X</td><td>X</td><td>X</td><td></td></tr> </table>	1	X		X	X	0					2	X	X	X	
1	X		X	X															
0																			
2	X	X	X																

MOTORSKE REVERZIBILNE SKLOPKE MOTOR REVERSING SWITCHES

Funkcija
Function

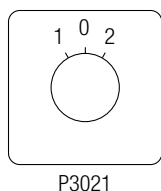
Podloga
Escutcheon plate

Kod
Code

Br. elem.
No. of elem.

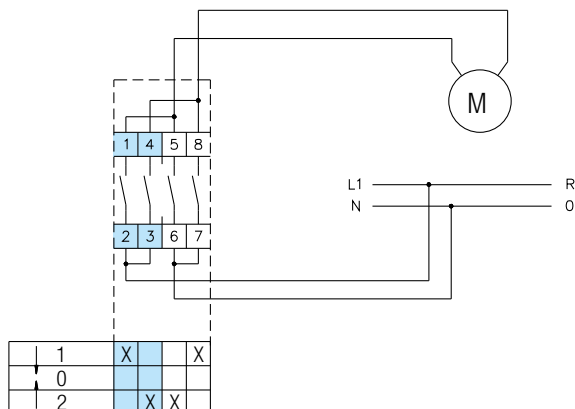
Dijagram
Diagram

2 polna
povrat u "0"
2 pole
return to "0"

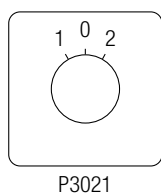


25

2

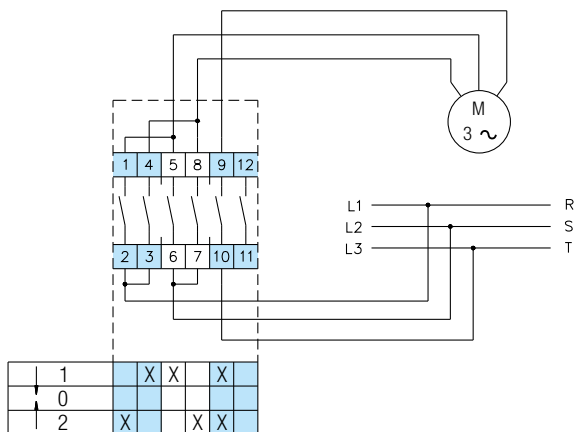


3 polna
povrat u "0"
3 pole
return to "0"

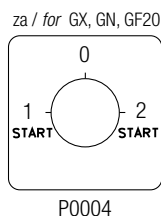


26

3

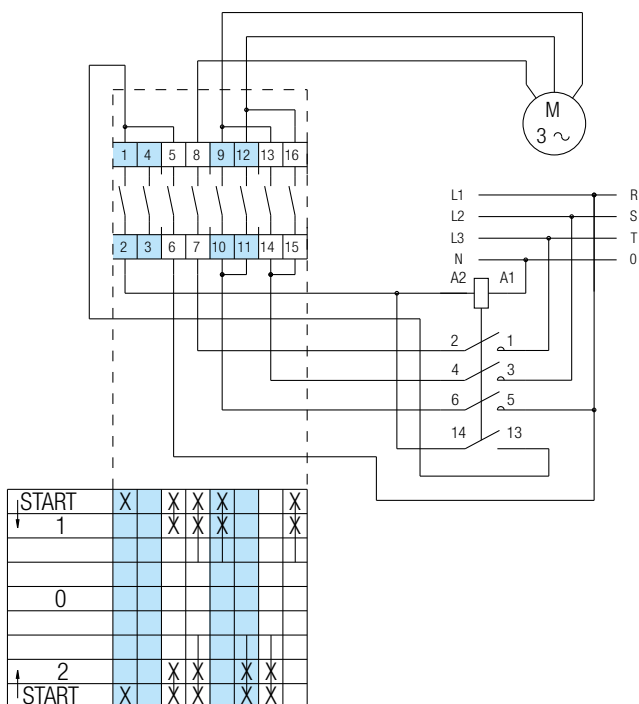


3 polna
sa sklopnikom
3 pole
with contactor

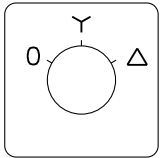
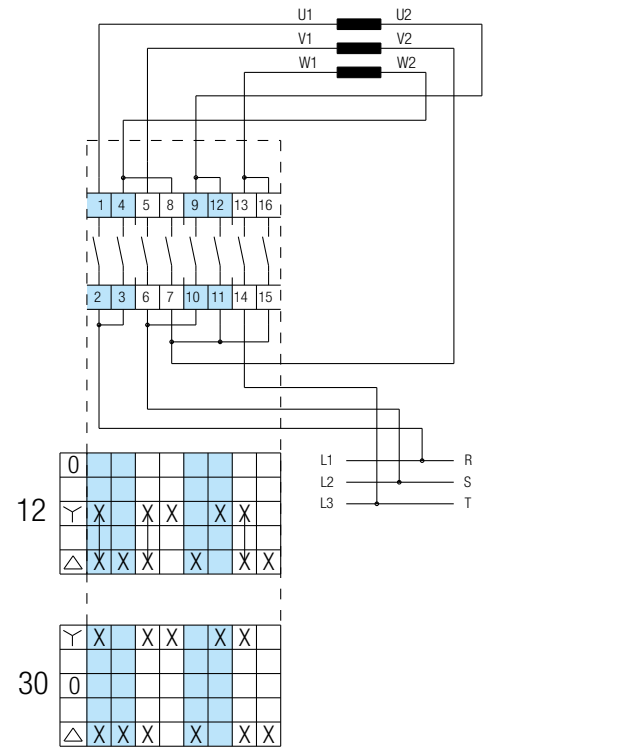
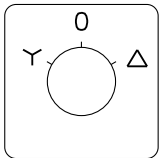
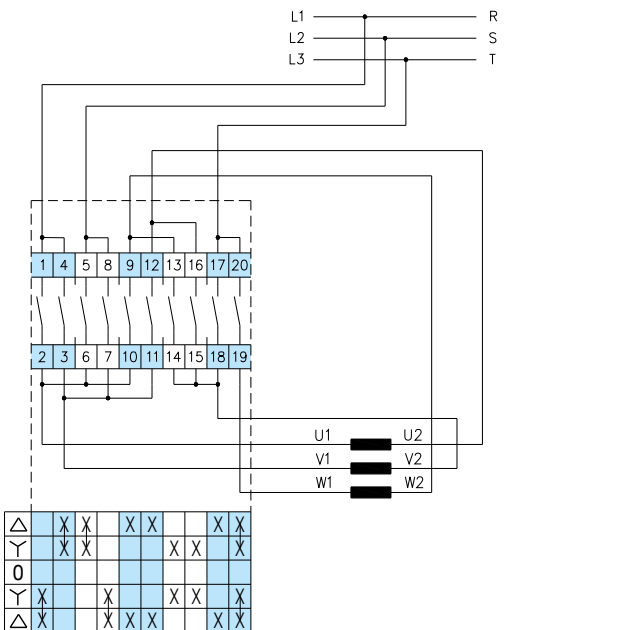


27

4



ZVIJEZDA - TROKUT SKLOPKE STAR - DELTA SWITCHES

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram
Standardna verzija Standard version	 <p>P6034</p>	12	4	
2 smjera okretanja Reversing	 <p>P6014</p>	30	4	

ZVIJEZDA - TROKUT SKLOPKE STAR - DELTA SWITCHES

Funkcija
Function

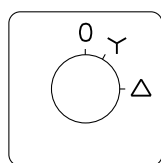
Podloga
Escutcheon plate

Kod
Code

Br. elem.
No. of elem.

Dijagram
Diagram

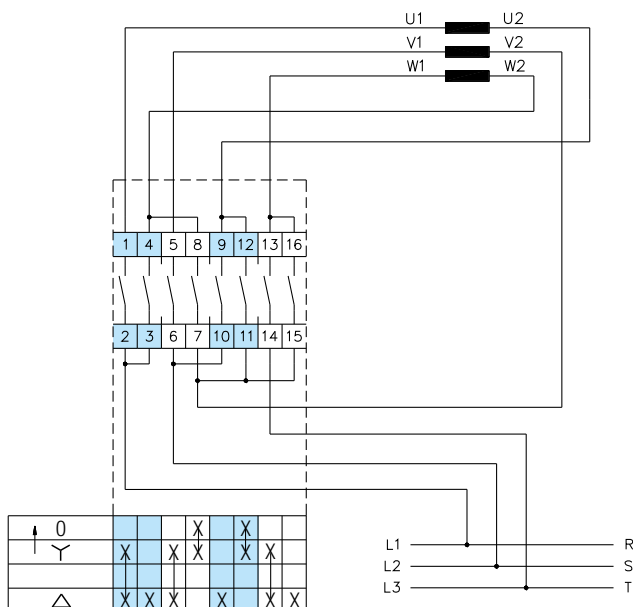
Povrat iz Y u "0"
Return from Y to "0"



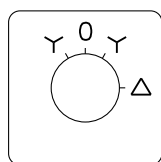
P0006

28

4



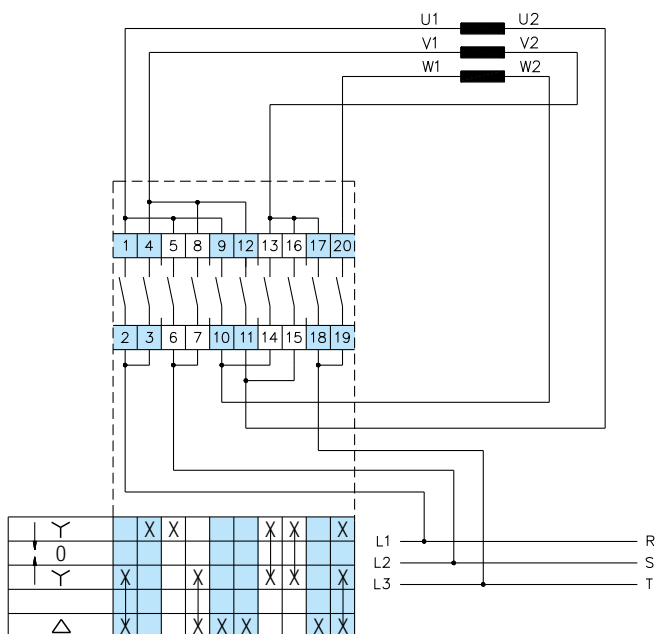
Protustrujno kočenje
Counter current
braking



P0007

29

5



SKLOPKE ZA UPRAVLJANJE MOTORIMA (Dahlander) *MOTOR CONTROL SWITCHES (Dahlander)*

Funkcija
Function

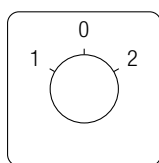
Podloga
Escutcheon plate

Kod
Code

Br. elem.
No. of elem.

Dijagram
Diagram

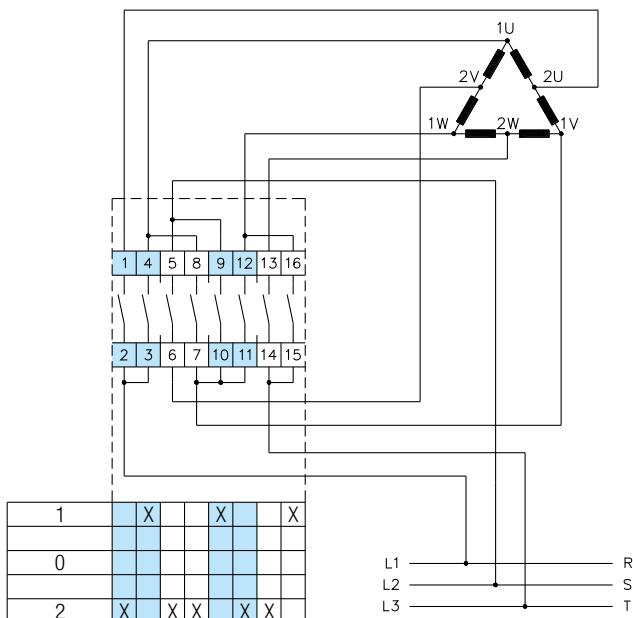
Položaj "0" u sredini
(Δ - 0 - YY)
With center "0"
(Δ - 0 - YY)



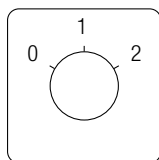
P6012

13

4



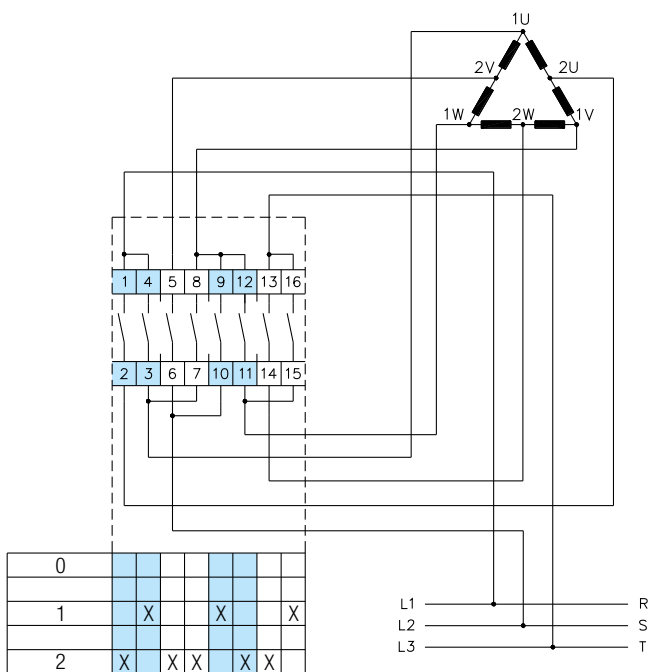
Standardna izvedba
(0 - Δ - YY)
Standard version
(0 - Δ - YY)



P6033

19

4



SKLOPKE ZA UPRAVLJANJE MOTORIMA (Odvojeni namoti) *MOTOR CONTROL SWITCHES (Separate windings)*

Funkcija
Function

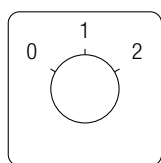
Podloga
Escutcheon plate

Kod
Code

Br. elem.
No. of elem.

Dijagram
Diagram

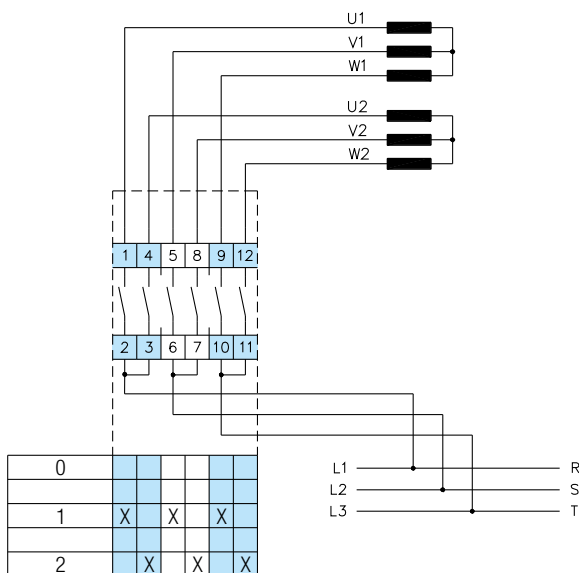
2 brzine, 2 namota
2 speed, 2 windings



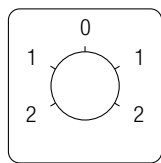
P6033

22

3



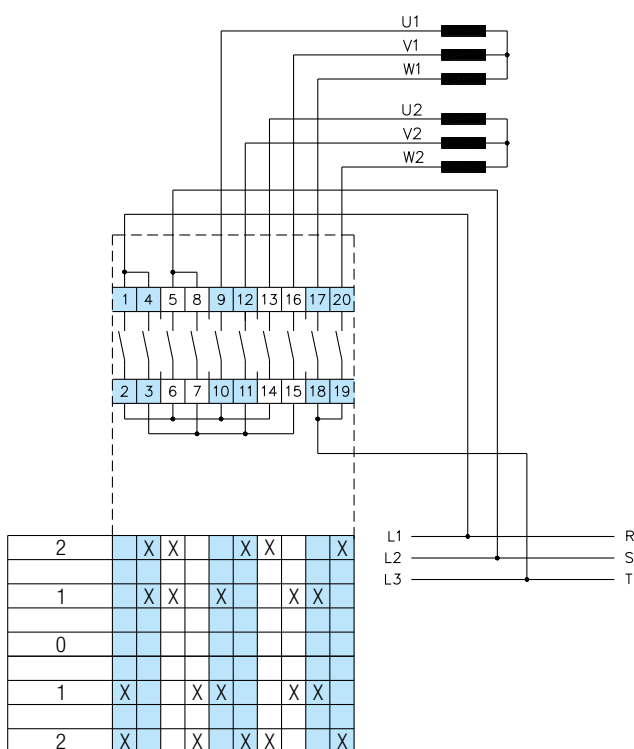
2 brzine, 2 smjera
2 namota
2 speed, reversing,
2 windings



P6010

23

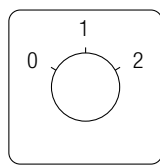
5



SKLOPKE ZA UPRAVLJANJE MOTORIMA (Odvojeni namoti) MOTOR CONTROL SWITCHES (Separate windings)

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram
----------------------	-----------------------------	-------------	---------------------------	---------------------

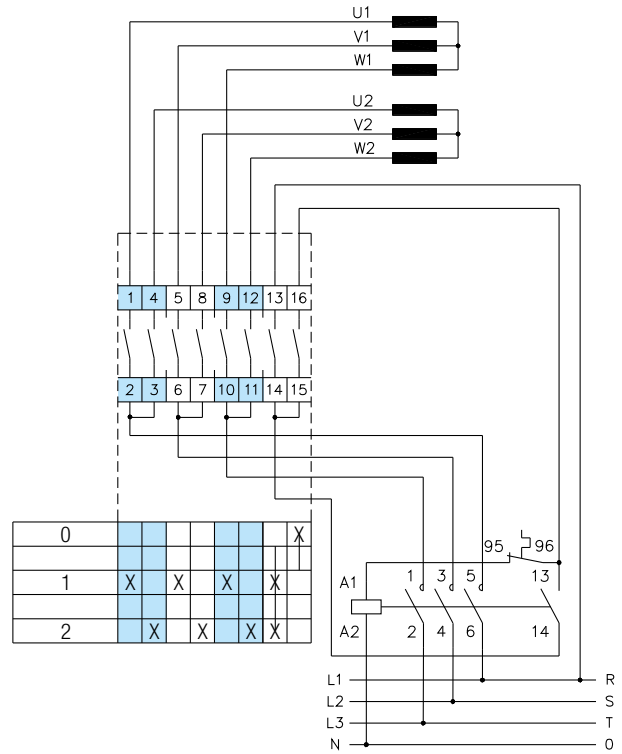
2 brzine, 2 namota
sa sklopnikom
2 speed, 2 windings
with contactor



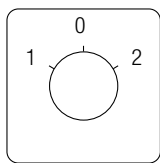
P6033

33

4



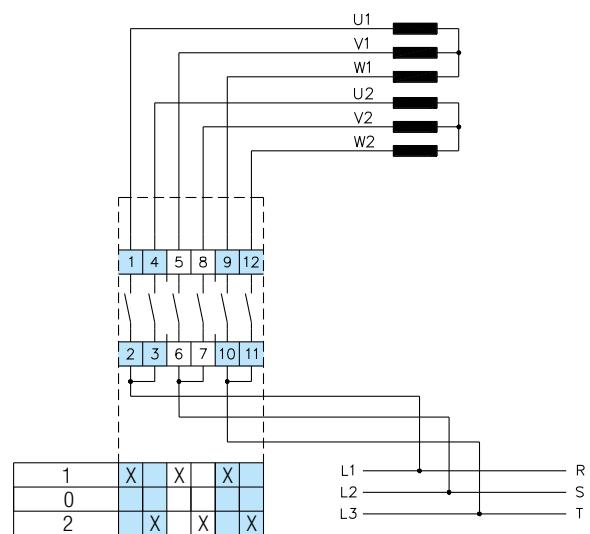
2 brzine, 2 namota
2 speed, 2 windings



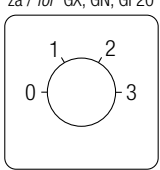
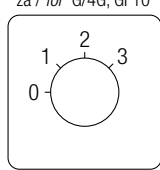
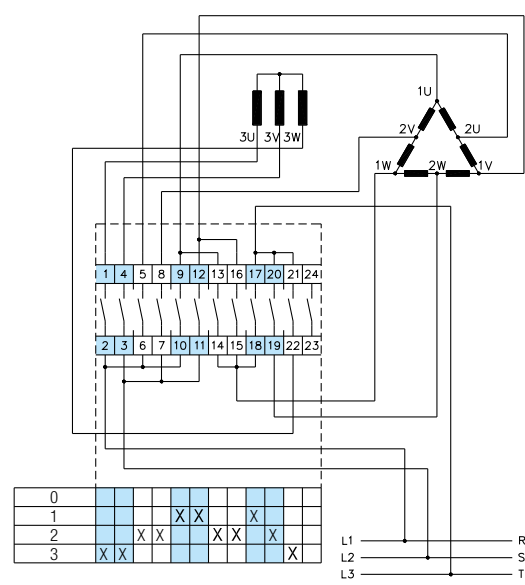
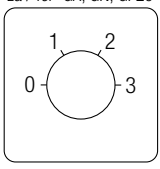
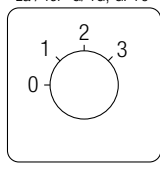
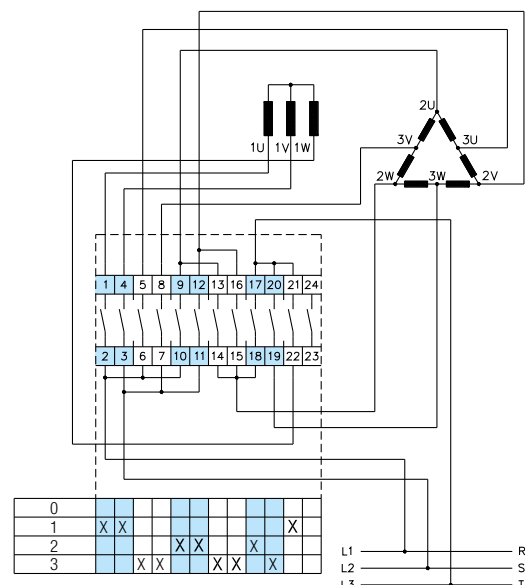
P6012

53

3



SKLOPKE ZA UPRAVLJANJE TROBRZINSKIM MOTORIMA SWITCHES FOR 3-SPEED MOTOR CONTROL

Funkcija Function	Podloga Escutcheon plate	Kod Code	Br. elem. No. of elem.	Dijagram Diagram																																																																																												
<p>3 brzine, 2 namota (1. i 2. brzina Dahlander) (0 - Δ - YY - Y)</p> <p>3 speed, 2 windings (1. and 2. speed Dahlander) (0 - Δ - YY - Y)</p>	<p>za / for GX, GN, GF20</p>  <p>P6046</p> <p>za / for G/4G, GF10</p>  <p>P4022</p>	35	6	 <table border="1" data-bbox="933 963 1252 1041"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td></tr> </table>	0																							1					X	X																	2			X	X					X	X			X										3	X	X																			X	
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3	X	X																			X																																																																											
<p>3 brzine, 2 namota (2. i 3. brzina Dahlander) (0 - Y - Δ - YY)</p> <p>3 speed, 2 windings (2. and 3. speed Dahlander) (0 - Y - Δ - YY)</p>	<p>za / for GX, GN, GF20</p>  <p>P6046</p> <p>za / for G/4G, GF10</p>  <p>P4022</p>	36	6	 <table border="1" data-bbox="933 1848 1252 1926"> <tr><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	0																							1	X	X																				X	2					X	X							X										3		X	X						X	X			X									
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1	X	X																				X																																																																										
2					X	X							X																																																																																			
3		X	X						X	X			X																																																																																			

SKLOPKE ZA POKRETANJE JEDNOFAZNIH MOTORA *START AND RUN SWITCHES*

Funkcija
Function

Podloga
Escutcheon plate

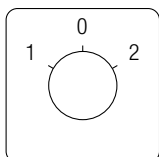
Kod
Code

Br. elem.
No. of elem.

Dijagram
Diagram

2 smjera okretanja
trajno spojeni radni
i zaletni kondenzator
te centrifugalna sklopka

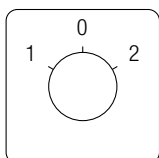
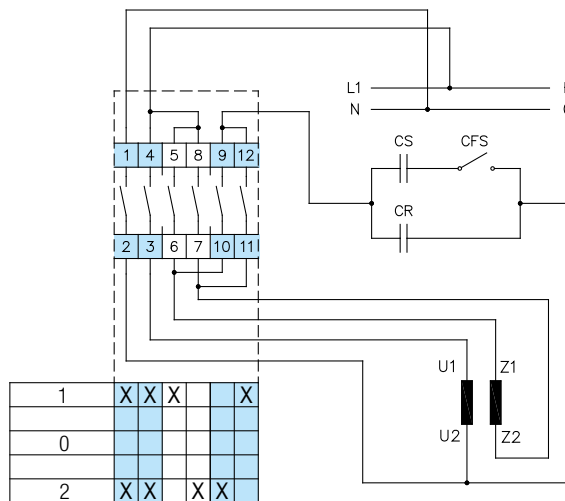
*Reversing
permanent operating and
starting capacitor with
centrifugal switch*



P6012

59

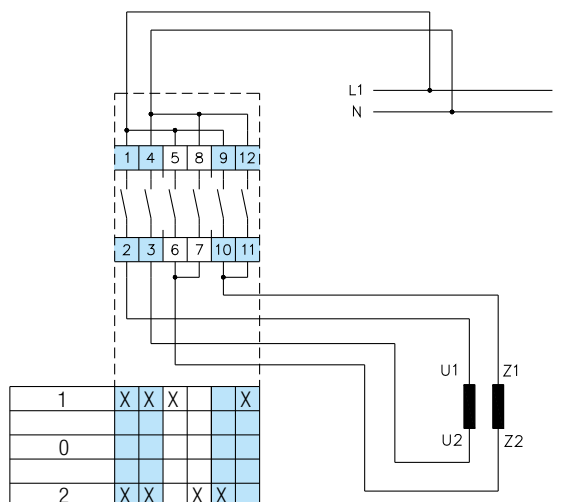
3



P6012

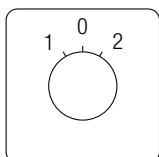
17

3



2 smjera okretanja
trajno uključena
pomoćna faza

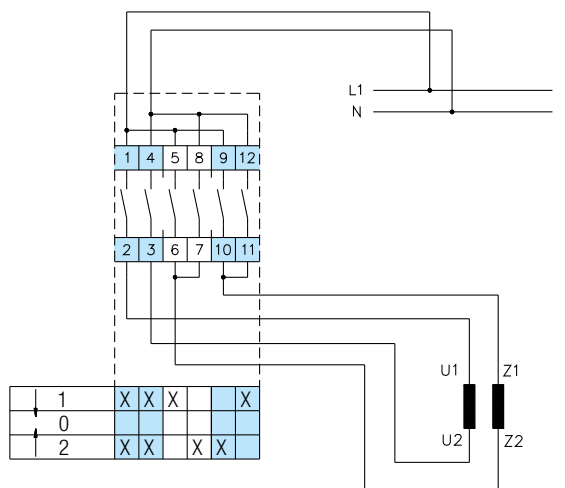
*Reversing
permanent start
winding*



P3021

50

3



SKLOPKE SERIJE SWITCHES SERIES G/4G

Kod Code	Broj elemenata / Number of elements							
	4G200	G315	4G400	G630	G900	G1200	G1600	G2000

SKLOPKE S KUTOM ZAKRETA 60° / SWITCHES WITH 60° SWITCHING

90	1	1	2	2	3	2	3	3
91	1	1	2	2	3	4	6	6
10	2	2	4	4	6	6	9	9
92	2	2	4	4	6	8	12	12
99	3	3	6	6	9	10	15	15
100	3	3	6	6	9	12	-	-
37	4	4	8	8	12	14	-	-
38	4	4	8	8	12	16	-	-
39	5	5	10	10	15	-	-	-
40	5	5	10	10	15	-	-	-
41	6	6	12	12	-	-	-	-
42	6	6	12	12	-	-	-	-
C90	1	1	2	2	3	2	3	3
C91	1	1	2	2	3	4	6	6
C10	2	2	4	4	6	6	9	9
C92	2	2	4	4	6	8	12	12
D90	1	1	2	2	3	2	3	3
D91	1	1	2	2	3	4	6	6
D10	2	2	4	4	6	6	9	9
D92	2	2	4	4	6	8	12	12
D99	3	3	6	6	9	10	15	15
D100	3	3	6	6	9	12	-	-
E90	1	1	2	2	3	2	3	3
E91	1	1	2	2	3	4	6	6
E92	2	2	4	4	6	6	9	9
E10	2	2	4	4	6	8	12	12
E99	3	3	6	6	9	10	15	15
E100	3	3	6	6	9	12	-	-

SKLOPKE S KUTOM ZAKRETA 90° / SWITCHES WITH 90° SWITCHING

05	1	1	2	2	3	2	3	4
06	1	1	2	2	3	4	6	8
07	2	2	4	4	6	6	9	12
08	2	2	4	4	6	8	12	16
C05	1	1	2	2	3	2	3	4
C06	1	1	2	2	3	4	6	8
C07	2	2	4	4	6	6	9	12
C08	2	2	4	4	6	8	12	16
09	2	2	4	4	6	6	9	9
C09	2	2	4	4	6	6	9	9

PREKLOPKE BEZ "0" POLOŽAJA / CHANGEOVER SWITCHES WITHOUT "0"

54	1	1	2	2	3	4	6	8
55	2	2	4	4	6	8	12	16
56	3	3	6	6	9	12	18	-
69	4	4	8	8	12	16	-	-
70	5	5	10	10	16	-	-	-
71	6	6	12	12	-	-	-	-
72	7	7	14	14	-	-	-	-
73	8	8	16	16	-	-	-	-
C54	1	1	2	2	3	4	6	8
C55	2	2	4	4	6	8	12	16
C56	3	3	6	6	9	12	-	-
C69	4	4	8	8	12	16	-	-

Kod Code	Broj elemenata / Number of elements							
	4G200	G315	4G400	G630	G900	G1200	G1600	G2000

PREKLOPKE S "0" POLOŽAJEM / CHANGEOVER SWITCHES WITH "0"

51,171	1	1	2	2	3	4	6	8
52,172	2	2	4	4	6	8	12	16
53,173	3	3	6	6	9	12	18	-
75,174	4	4	8	8	12	16	-	-
76	5	5	10	10	15	-	-	-
77	6	6	12	12	-	-	-	-
78	7	7	14	14	-	-	-	-
79	8	8	16	16	-	-	-	-
C51	1	1	2	2	3	4	6	8
C51	2	2	4	4	6	8	12	16
C53	3	3	6	6	9	12	-	-
C75	4	4	8	8	12	16	-	-
C76	5	5	10	10	15	-	-	-
C77	6	6	12	12	-	-	-	-
D51	1	1	2	2	3	4	6	8
D52	2	2	4	4	6	8	12	16
D53	3	3	6	6	9	12	-	-
D75	4	4	8	8	12	16	-	-
D76	5	5	10	10	15	-	-	-
D77	6	6	12	12	-	-	-	-
E51	1	1	2	2	3	4	6	8
E52	2	2	4	4	6	8	12	16
E53	3	3	6	6	9	12	-	-
E75	4	4	8	8	12	16	-	-
E76	5	5	10	10	15	-	-	-
E77	6	6	12	12	-	-	-	-

STEPENASTE SKLOPKE BEZ "0" POLOŽAJA / MULTI-STEP SWITCHES WITHOUT "0"

82	2	2	4	4	6	8	-	-
86	3	3	6	6	9	12	-	-
93	5	5	10	10	15	-	-	-
141	6	6	12	12	-	-	-	-
149	8	8	16	16	-	-	-	-
83	2	2	4	4	6	8	12	16
87	4	4	8	8	-	-	-	-
94	6	6	12	12	-	-	-	-
142	8	8	16	16	-	-	-	-
84	3	3	6	6	9	12	-	-
88	5	5	10	10	15	-	-	-
95	8	8	16	16	-	-	-	-
85	3	3	6	6	9	12	-	-
89	6	6	12	12	-	-	-	-
101	4	4	8	8	12	-	-	-
117	7	7	14	14	-	-	-	-
102	4	4	8	8	12	-	-	-
118	8	8	16	16	-	-	-	-
103	5	5	10	10	15	-	-	-
104	5	5	10	10	15	-	-	-
105	6	6	12	12	-	-	-	-
106	6	6	12	12	-	-	-	-

SKLOPKE SERIJE SWITCHES SERIES G/4G

Kod Code	Broj elemenata / Number of elements							
	4G200	G315	4G400	G630	G900	G1200	G1600	G2000

STEPENASTE SKLOPKE S "0" POLOŽAJEM / MULTI-STEP SWITCHES WITH "0"

107	1	1	2	2	3	4	6	8
123	2	2	4	4	6	8	12	16
135	3	3	6	6	9	12	-	-
145	4	4	8	8	12	16	-	-
151	5	5	10	10	15	-	-	-
156	6	6	12	12	-	-	-	-
160	7	7	14	14	-	-	-	-
163	8	8	16	16	-	-	-	-
108	2	2	4	4	6	8	12	16
124	3	3	6	6	9	12	-	-
136	5	5	10	10	15	-	-	-
146	6	6	12	12	-	-	-	-
152	8	8	16	16	-	-	-	-
109	2	2	4	4	6	8	12	16

Kod Code	Broj elemenata / Number of elements							
	4G200	G315	4G400	G630	G900	G1200	G1600	G2000

STEPENASTE SKLOPKE S "0" POLOŽAJEM / MULTI-STEP SWITCHES WITH "0"

125	4	4	8	8	12	16	-	-
137	6	6	12	12	-	-	-	-
147	8	8	16	16	-	-	-	-
110	3	3	6	6	9	12	-	-
126	5	5	10	10	15	-	-	-
138	8	8	16	16	-	-	-	-
111	4	4	8	8	12	16	-	-
127	7	7	14	14	-	-	-	-
112	4	4	8	8	12	16	-	-
128	8	8	16	16	-	-	-	-
113	5	5	10	10	15	-	-	-
114	5	5	10	10	15	-	-	-
115	6	6	12	12	-	-	-	-
116	6	6	12	12	-	-	-	-

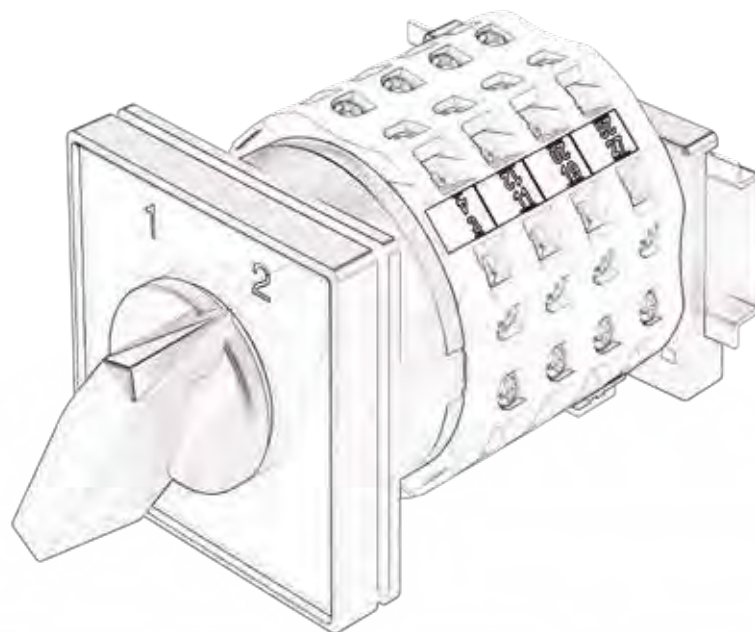
POPIS DIJAGRAMA SKLAPANJA LIST OF SWITCHING DIAGRAMS

Diagram	Strana / Page	Diagram	Strana / Page	Diagram	Strana / Page	Diagram	Strana / Page	Diagram	Strana / Page	Diagram	Strana / Page
1	70	35	105	68	87	102	74	136	76	174	71
2	70	36	105	69	72	103	74	137	76	175	76
3	70	37	68	70	72	104	75	138	77	176	76
4	70	38	68	71	72	105	75	139	77	177	76
5	69	39	68	72	72	106	75	140	78	178	76
6	69	40	68	73	72	107	76	141	72	179	77
7	69	41	68	74	72	108	76	142	73	182	71
8	69	42	68	75	71	109	76	143	73	183	71
9	69	43	72	76	71	110	77	144	73	201	70
10	68	44	72	77	71	111	77	145	76	202	70
11	95	45	70	78	71	112	78	146	76	203	70
12	97	46	70	79	71	113	79	147	76	204	93
13	100	47	70	80	71	114	80	148	77	205	93
14	95	48	70	81	71	115	81	149	72	206	93
15	106	49	99	82	72	116	82	150	73	207	93
16	106	50	107	83	73	117	74	151	76	208	93
17	107	51	71	84	73	118	74	152	76	209	93
18	104	52	71	85	73	119	74	153	76	210	94
19	100	53	71	86	72	120	75	154	72	251	83
20	101	53	71	87	73	121	75	155	73	252	83
21	97	54	72	88	73	122	75	156	76	253	84
22	102	55	72	89	73	123	76	157	76	254	83
23	102	56	72	90	68	124	76	158	76	255	83
24	94	57	69	91	68	125	76	159	72	256	84
25	96	58	88	92	68	126	77	160	76	257	84
26	96	59	107	93	72	127	77	161	76	258	85
27	96	60	86	94	73	128	78	162	72	259	85
28	98	61	90	95	73	129	79	163	76	260	85
29	98	62	72	96	73	130	80	164	76	270	67
30	97	63	69	97	89	131	81	165	79	271	67
31	99	64	91	98	88	132	82	166	95	275	67
32	101	65	65	99	68	133	74	171	71	276	67
33	103	66	86	100	68	134	74	172	71	277	67
34	104	67	87	101	74	135	76	173	71	278	67

Grebenasta sklopka

Rotary cam switch

GA20



Grebenasta sklopka serije GA pripada novoj seriji grebenastih sklopki sa zaštitom od slučajnog dodira (DIN/EN61140).

Ovaj tip sklopke ima 4 kontakta po sklopnom elementu. Može imati najviše 12 upravljačkih položaja i 12 sklopnih elemenata (48 kontakata), a može se izvesti s kutem zakreta od 30°, 45°, 60° i 90°. Svoju primjenu najčešće nalazi u ormarima u kojima je ograničen prostor iza montažne ploče, a shema sklapanja zahtijeva velik broj kontakata.

Konstruirana je prema najsuvremenijim principima i dostignućima na području sklopnih aparata uz uporabu najkvalitetnijih izolacijskih i kontaktnih materijala. Odlikuje se visokim sklopnim moćima, te velikom električnom i mehaničkom trajnošću.

Kada se traži prednji sklop veći od standardnog, sklopka ima oznaku H (GA20H).

Ako se sklopka koristi za napone niže od 24 V i male struje reda mA, može se izraditi s pozlaćenim kontaktima. Tada sklopka ima oznaku G (GA20G).

Rotary cam switch series GA is the new series of rotary cam switches protected from inadvertent touch (DIN/EN61140).

Per each switching element this switch has 4 contacts. Switch can have max. 12 control positions and 12 switching elements (48 contacts) with turning angle of 30°, 45°, 60° or 90°. This cam switch is used in applications where available depths behind the mounting plates are limited and the switching programs require a large number of contacts.

It is designed on modern principles taking into consideration the latest achievements in the field of switching devices and using the best insulation and contact materials. Its advantages are: high making and breaking capacities, electrical and mechanical endurance.

At the switch where is front part bigger than standard size required, the switch is marked with H (GA20H).

When the switch is used at lower voltages than 24 V and currents of mA, the contacts can be gold-plated. The switch is marked with G (GA20G).

TEHNIČKE KARAKTERISTIKE TECHNICAL DATA

				GA20	GA20H
Nazivni izolacijski napon Rated insulation voltage	U _i	IEC/VDE/BS UL/CSA	V	690	600
Nazivni udarni podnosivi napon Rated impulse withstand voltage	U _{imp}	IEC-60947 (III/3)	kV	6	
Nazivna termička struja Rated thermal current	I _{th}	IEC/VDE/BS UL/CSA	A	20	15
Glavna sklopka Main switch	1)	Najveća vrijednost nazivnog pogonskog napona Max. value of rated operational voltage	V	480	
		Nazivni udarni podnosivi napon Rated impulse withstand voltage	kV	4	
Max. veličina osigurača za zaštitu od kratkog spoja Max. fuse size for short circuit protection	I _n (gG/gL)	10 kA 25 kA	A	20	20
Nazivna kratkotrajno podnosiva struja Rated short-time withstand current	I _{cw}	1 sec	A	220	
Nazivna pogonska struja Rated operational current	I _e	AC1/AC21A IEC/VDE/BS	A	20	
	AC3	IEC/VDE/BS 3 faze 3 phase	220 - 240 V 380 - 440 V 500 - 690 V	kW kW kW	3 5,5 5,5
Motorska sklopka za kategoriju upotrebe Motor switch in utilization category	AC23A	1 faza, 2 pola 1 phase, 2 pole IEC/VDE/BS 3 faze 3 phase	120 V 230 V 400 V 220 - 240 V 380 - 440 V 500 - 690 V	kW kW kW kW kW kW	0,6 2,2 3 3,7 7,5 7,5
Motorska sklopka Motor switch	DOL	1 faza, 2 pola 1 phase, 2 pole UL/CSA 3 faze 3 phase	120 V 230 V 400 V 110 V 240 V 480 V 600 V	HP HP HP HP HP HP	1,5 2,0 5,0 5,0
Mehanička trajnost Mechanical durability		Broj uklopa Switching cycles		1 x 10 ⁶	
Priključni vijak Terminal screw			M	3	
Moment pritezanja priključnog vijka Terminal screw	(IEC)		Nm	0,5	
Gubici Power dissipation			W	1	
Presjek vodiča Conductor size	max. r/f		2 x mm ² AWG	2,5/25 12/14	
	min. r/f		2 x mm ² AWG	0,5/0,5 20/20	
	r = kruti, višezilni / rigid f = finožičani / flexibl				

¹⁾ vrijedi za mreže sa uzemljenim zvjezdištem, prenaponska kategorija III, stupanj zagađenja 3
²⁾ valid for neutral earthed systems, overvoltage category III, pollution degree 3.

POTVRDA APPROVAL



Kontaktni sustav Contact system



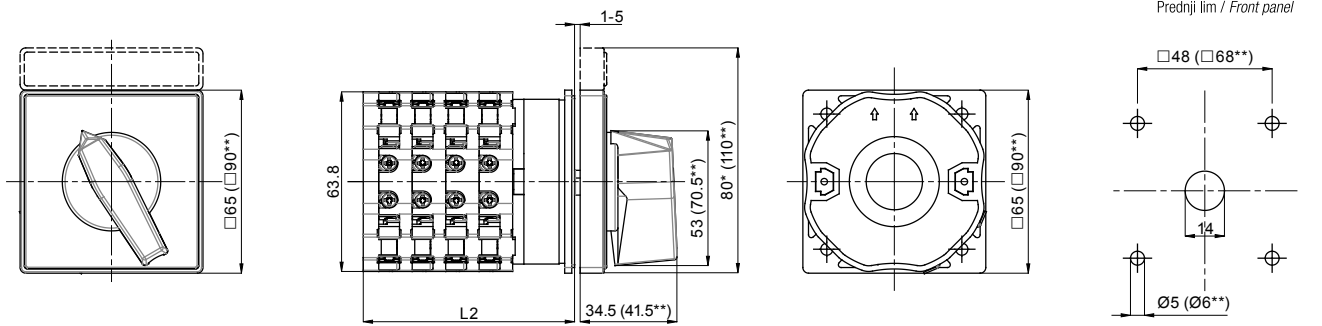
U - Ugradna sklopka Front mounting



O - Sklopka za odvojenu ugradnju Rear mounting

MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

U - Ugradna sklopka Front mounting

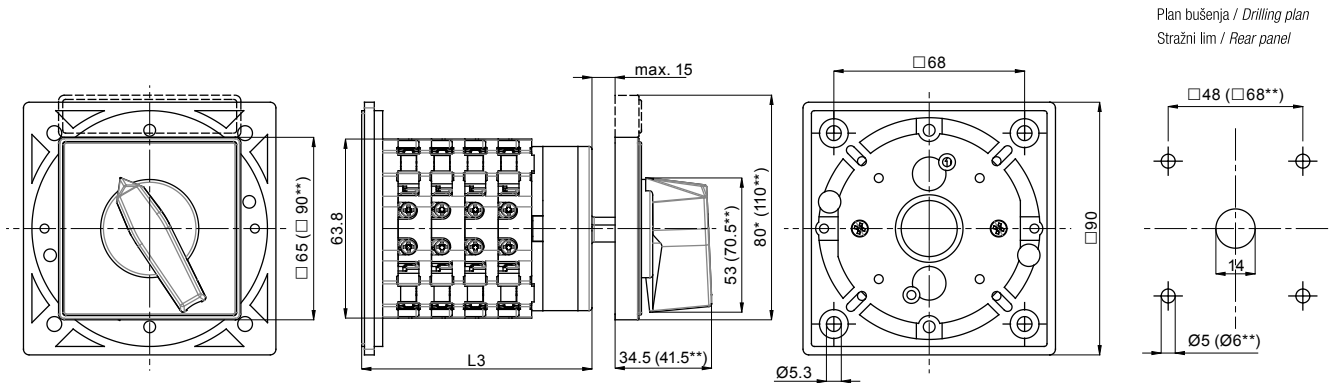


*Prednja ploča s natpisom
*Front plate with title

** Veći prednji sklop (H)
** Bigger front part (H)

Broj elemenata		L2		Number of elements							
1	2	3	4	5	6	7	8	9	10	11	12
39,5	51,5	63,5	75,5	87,5	99,5	111,5	123,5	135,5	147,5	159,5	171,5

O - Sklopka u odvojenu ugradnju Rear mounting

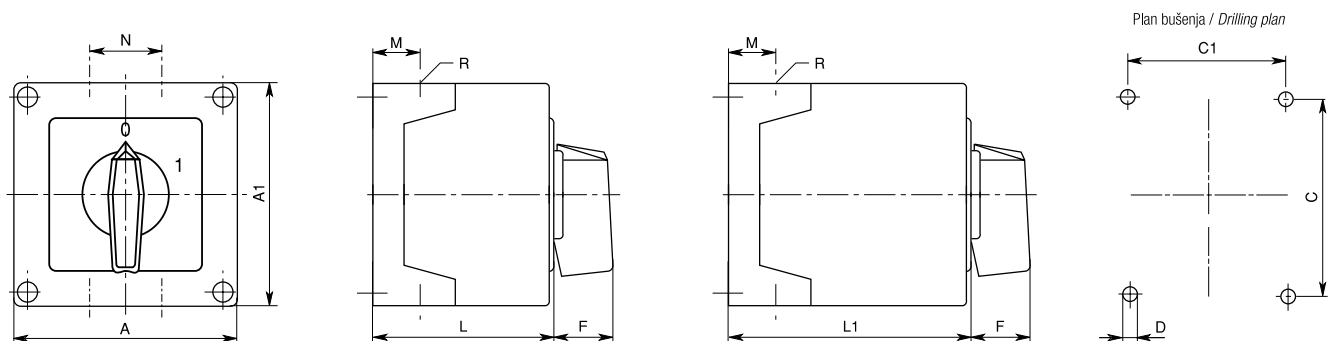


*Prednja ploča s natpisom
*Front plate with title

** Veći prednji sklop (H)
** Bigger front part (H)

Broj elemenata		L3		Number of elements							
1	2	3	4	5	6	7	8	9	10	11	12
46,5	58,5	70,5	82,5	94,5	106,5	118,5	130,5	142,5	154,5	166,5	178,5

P - Sklopka u plastičnom kućištu Switch in plastic enclosure



Veličina kućišta Enclosure size	Broj elemenata Number of elements		A	A1	C	C1	D	F	M	N	L	L1	Zaštita Protection	Uvodnice Conduit entries	
	L	L1												R(Pg)	R(M...x1,5)
110x110	1-3	4-6	110	110	98,4	83	4,5	32	21	39,5	85,5	119,5	IP65	4xPg21	ii / or 4xM25
125x175	1-3	4-6	125	175	146	112	5,5	32	21	68	84,3	118,3	IP65	4xPg21+2xPg11	iii / or 4xM25+2xM16



Spojka za vrata
Door coupling



Produženje osovine i spojka za vrata
Extension shaft and door coupling



Blokada položaja - dvoručno upravljanje
Blockade of positions - two hand operating



Sklopka sa zaključavanjem
Switch with locking

Rastavne sklopke

*Switch
disconnectors*

CS





RASTAVNE SKLOPKE serije CS

Sklopke serije CS razvijene su prema najsvremenijim principima i dostignućima na području sklopnih aparata uz upotrebu visoko-kvalitetnih materijala i kontakata od srebrnih legura. Modularna konstrukcija sklopke omogućava naknadnu dogradnju sklopke, što znatno utječe na sniženje troškova skladištenja.

Prigradnje koje se mogu pričvrstiti na osnovnu sklopku s lijeve i/ili desne strane:

- 4. pol (N-pol)
- pomoćni kontakti 1NO + 1NC
- pomoćni kontakti 2NO
- stezaljka za uzemljenje
- stezaljka za N vodič

Zbog povećanih izolacijskih razmaka između otvorenih kontakata, sklopke CS serije su naročito pogodne za korištenje kao glavne sklopke i sklopke za nužno isklapanje.

Sklopke serije CS udovoljavaju normama IEC 60947-1,-3, IEC 60204, DIN EN 61058, UL 508, C22.2 No.14 itd.

Karakteristike:

- Tri ugradne (dimenzijske) veličine:
A0 veličina (16-25-32-40 A)
A1 veličina (40-63-80 A)
A2 veličina (100-125-160-200 A)
- Stupanj mehaničke zaštite - prednji sklop IP65, priključnice IP20 (za sklopke CS40-200 izvedba sa zaštitnim poklopcem priključnica)
- Pozitivno otvaranje kontakata (IEC 60947-5-1 Annex K)
- Obuhvatne stezaljke su u otvorenom položaju tako da je olakšano ožičenje sklopke.
- Montaža sklopke na DIN šinu ili pomoću vijaka
- Kod sklopki gdje se traži prednji sklop veći od standardnog, sklopke imaju oznaku **H** (npr. CS25H)

SWITCH DISCONNECTORS series CS

Switch disconnectors series CS have been developed to the latest achievements in the field of switching devices through the application of quality insulation materials and contacts made with silver alloys. Modular construction allows subsequent changes, so stocking costs can be lowered.

Elements that can be fixed to the left and/or right side of the switch:

- fourth pole (N-pole)
- auxiliary contacts 1NO + 1NC
- auxiliary contacts 2NO
- PE terminal
- N terminal

Because of the larger opening clearances the switches series CS are particularly suitable for main switches (switch disconnectors) and safety switches (emergency-off switches).

Switches series CS are built in accordance with the following standards: IEC 60947-1,-3, IEC 60204, DIN EN 61058, UL 508, C22.2 No.14 etc.

General:

- Three modular frame sizes:
A0 size (16-25-32-40 A)
A1 size (40-63-80 A)
A2 size (100-125-160-200 A)
- Mechanical protection degree - front part IP65, connection terminals IP20 (for switches CS40-200 option with protection cover is required)
- Positive contacts opening (IEC 60947-5-1 Annex K)
- Loosely screwed "self-lifting" clamps offer easier connection
- DIN-rail or screw mounting
- At the switches where is front part bigger than standard size required, the switches are marked with **H** (e.g. CS25H)

POTVRDE APPROVALS

	CS16 CS16H	CS25 CS25H	CS32 CS32H	CS40R CS40RH	CS40	CS63	CS80	CS100	CS125	CS160	CS200
	■	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■				

TIP SKLOPKE SWITCH TYPE			CS16 CS16H	CS25 CS25H	CS32 CS32H	CS40R CS40RH	CS40	CS63	CS80	CS100	CS125	CS160	CS200	
Nazivni izolacijski napon Rated insulation voltage	U_i	V (IEC 60947)	690	690	690	690	690	690	690	1000 ⁽²⁾	1000 ⁽²⁾	1000 ⁽²⁾	1000 ⁽²⁾	
Nazivni udarni podnosivi napon Rated impulse withstand voltage	U_{imp} (III/3) ⁽¹⁾	kV	6	6	6	6	6	6	6	8	8	8	8	
Nazivna termička struja Rated thermal current	I_{th} (IEC 60947)	A	16	25	32	40	40	63	80	100	125	160	200	
Nazivna kratkotrajna podnosiva struja Rated short-time withstand current	I_{cw} / 1 sec.	A	400	500	600	600	1100	1300	1400	2600	2800	3000	3000	
Max. veličina osigurača za zaštitu od kratkog spoja Max. fuse size for short circuit protection	I_n gG charac.	10 kA	A	35	35	35	40	80	80	80	160	160	160	200
		25 kA	A	32	32	32	32	63	63	63	160	160	160	160
		50 kA	A	32	32	32	32	63	63	63	160	160	160	160
Nazivna pogonska struja Rated operational current	I_e AC1/AC21A	A	16	25	32	40	40	63	80	100	125	160	200	
Motorska sklopka za kateg. upotrebe Motor switch in utilization category	AC3 IEC/VDE/BS 3 faze 3 phase	220/240 V	kW	3,7	5,5	7,5	7,5	11	11	15	30	33	37	37
		380/440 V	kW	5,5	7,5	11	11	15	22	25	55	59	63	63
		500 V	kW	7,5	11	15	15	22	25	30	59	63	75	75
		690 V	kW	7,5	11	15	15	22	25	25	40	45	45	45
AC23 IEC/VDE/BS 3 faze 3 phase	220/240 V	kW	4	7,5	9	9	11	15	18,5	30	37	40	40	
	380/440 V	kW	7,5	11	15	15	18,5	25	30	59	63	75	75	
	500 V	kW	9	15	15	15	22	30	37	63	75	80	80	
	690 V	kW	9	15	15	15	25	30	30	51	55	55	55	
Priključni vijak Terminal screw		M	4	4	4	4	4	4	4	6	6	6	8	
Moment pritezanja priključnog vijka Terminal tightening torque	IEC	Nm	1,2	1,2	1,2	1,2	1,2	1,2	1,2	5	5	5	6	
Presjek vodiča Conductor size	r = jednožilni / rigid f = višezilni / flexible max. r/f	mm ² AWG	10/6 8/10	10/6 8/10	10/6 8/10	10/6 8/10	25/16 4/6	25/16 4/6	25/16 4/6	70/50 00/0	70/50 00/0	70/50 00/0	95/70 ⁽³⁾ 000/11 ⁽³⁾	

(1) vrijedi za mreže sa uzemljenim zvjezdištem, prenaponska kategorija III, stupanj zagađenja 3 / valid for neutral earthed systems, overvoltage category III, pollution degree 3

(2) iznad 690 V samo za kategoriju upotrebe AC20A / suitable for no load switching applications (AC20A) above 690 V

(3) kabelski priključak / cable lug

POMOĆNI KONTAKTI AUXILIARY CONTACTS

Nazivni izolacijski napon Rated insulation voltage	U_i (IEC 60947)	V	690
Nazivna termička struja Rated thermal current	I_{th} (IEC 60947)	A	10
Nazivna pogonska struja Rated operational current	110 V	A	8
	220 - 240 V	A	8
	AC15 380 - 400 V	A	3
	660 - 690 V	A	1
Moment pritezanja priključnog vijka Terminal tightening torque	IEC	Nm	0,4
Presjek vodiča Conductor size	r = jednožilni / rigid f = višezilni / flexible max. r/f	mm ² AWG	1,5/1,5 14/14



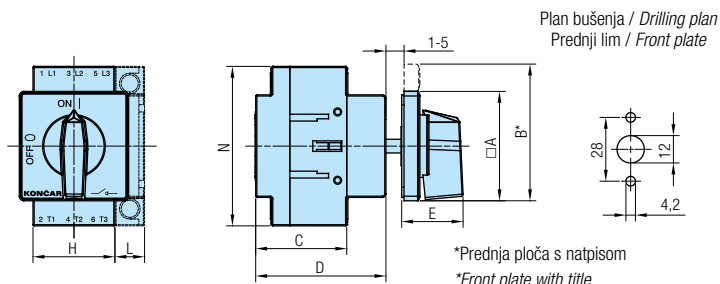
UGRADNE VELIČINE MOUNTING SIZES

A0	A1	A2
CS16 CS25 CS32 CS40R	CS16H CS25H CS32H CS40RH	CS40 CS63 CS80
CS100 CS125 CS160 CS200		

MJERNE SKICE *DIMENSIONAL DRAWINGS* (mm)

CS16, CS25, CS32, CS40R, CS40, CS63, CS80

U - Ugradna sklopka *Front mounting*



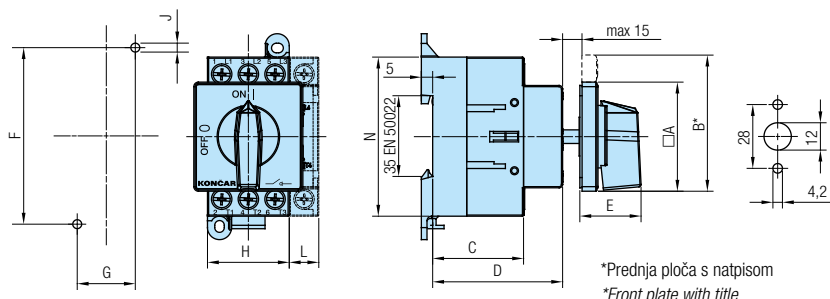
Tip/Type	Oznaka / Marking							
	□A	B	C	D	E	H	L	N
CS16								
CS25	48	60	40	57	26,5	36	13,5	70
CS32								
CS40R								
CS40								
CS63	65	80,5	40	57	34,5	54	18	76
CS80								

*Prednja ploča s natpisom
*Front plate with title

O - Sklopka za odvojenu ugradnju *Rear mounting*

Plan bušenja / Drilling plan
Stražnji lim / Rear plate

Plan bušenja / Drilling plan
Prednji lim / Front plate

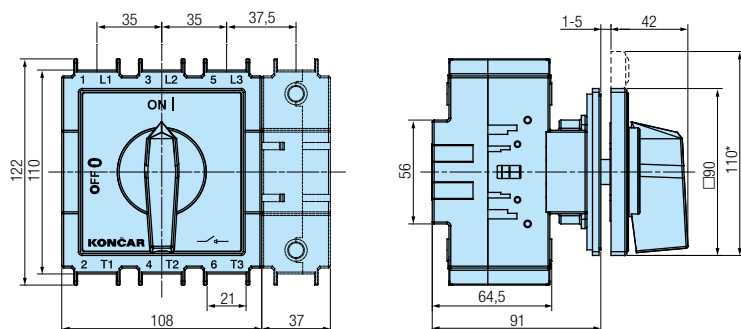


Tip/Type	Oznaka / Marking										
	□A	B	C	D	E	F	G	H	∅	L	N
CS16											
CS25	48	60	40	57	26,5	78	25	36	4,5	13,5	70
CS32											
CS40R											
CS40											
CS63	65	80,5	40	57	34,5	88	40	54	5,5	18	76
CS80											

*Prednja ploča s natpisom
*Front plate with title

CS100, CS125, CS160

U - Ugradna sklopka *Front mounting*



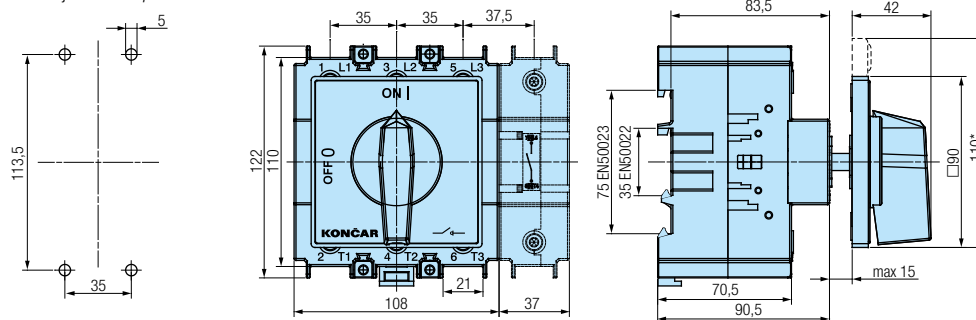
Plan bušenja / Drilling plan
Prednji lim / Front plate

*Prednja ploča s natpisom
*Front plate with title

O - Sklopka za odvojenu ugradnju *Rear mounting*

Plan bušenja / Drilling plan
Stražnji lim / Rear plate

Plan bušenja / Drilling plan
Prednji lim / Front plate

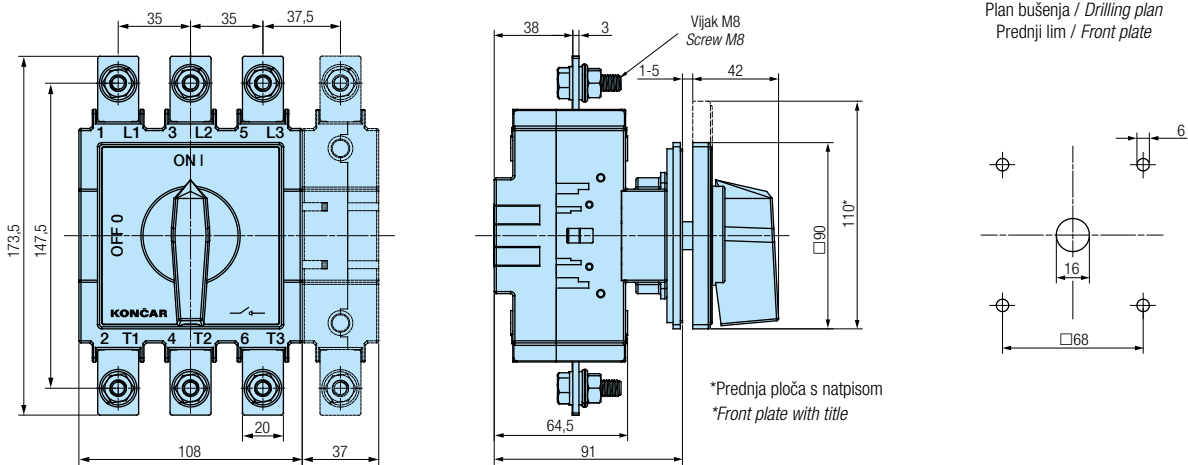


*Prednja ploča s natpisom
*Front plate with title

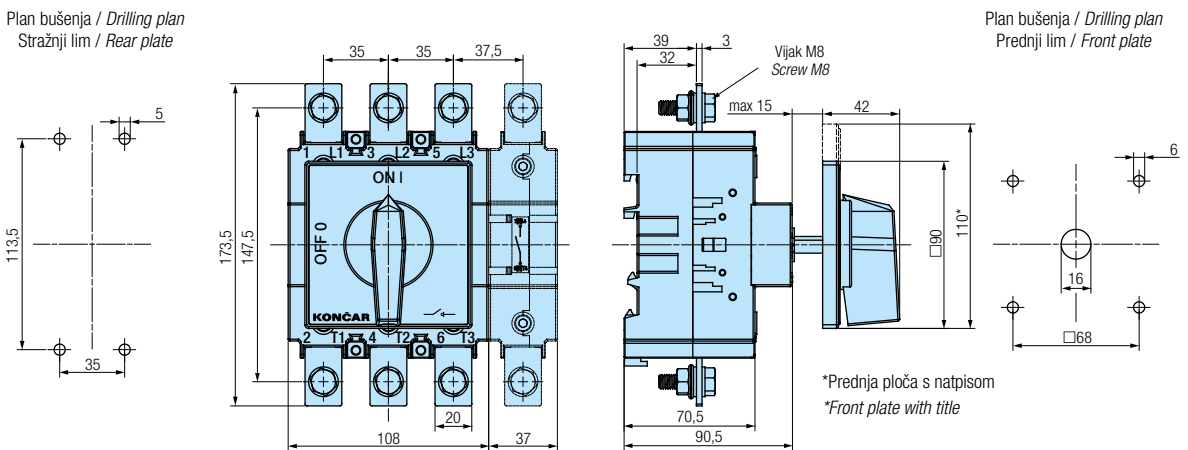
MJERNE SKICE *DIMENSIONAL DRAWINGS* (mm)

CS200

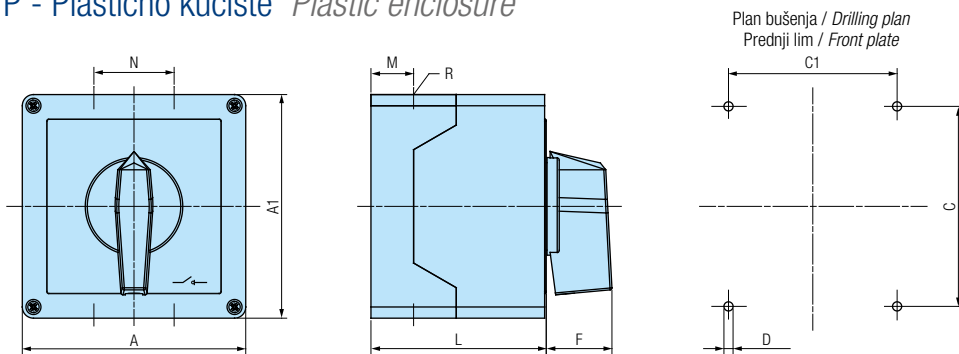
U - Ugradna sklopka *Front mounting*



O - Sklopka za odvojenu ugradnju *Rear mounting*



P - Plastično kućište *Plastic enclosure*



Tip/ Type	Veličina kućišta Enclosure size	Tip kućišta Enclosure type	Oznaka / Marking								Zaštita Protection	Uvodnice / Conduit entries		
			A	A1	C	C1	D	F	M	N		L	R (Pg)	R (M...x1,5)
CS16 CS25 CS32 CS40R	110 x 110	NEMA Type 4X	110	110	98,4	83	4,5	32	21	39,5	85,5	IP65	4 x Pg21 ili / or	4 x M25
CS40 CS63 CS80	125 x 175	NEMA Type 4X	125	175	146	112	5,5	32	21	68	84,3	IP65	4 x Pg21+ 2Pg11 ili / or	4 x M25 + 2 x M16
CS100 CS125 CS160 CS200	215 x 295	-	215	295	240	160	5	43	32	110	147,5	IP65	6 x Pg16 ili/or 6 x Pg21 ili/or 6 x Pg29	--

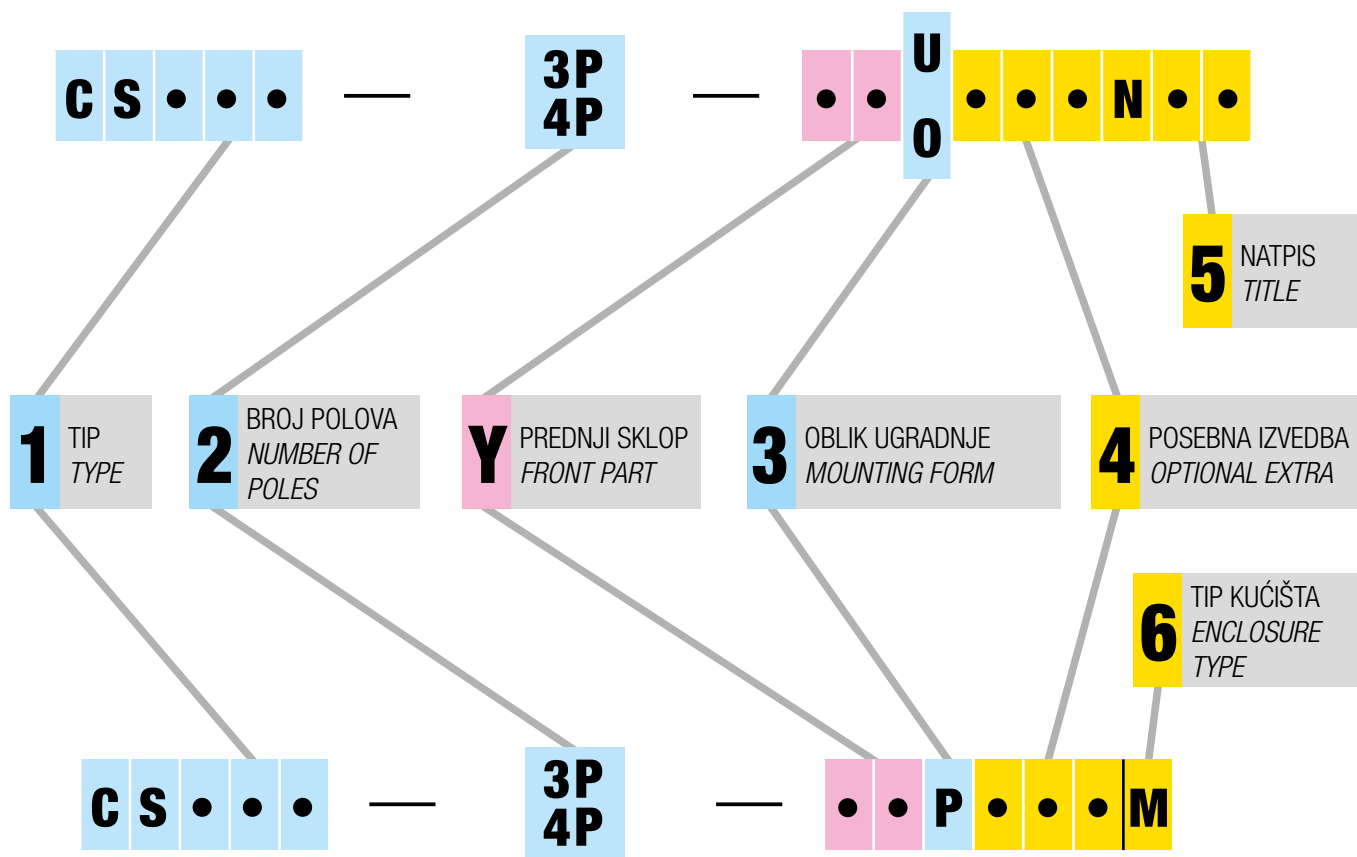
NARUDŽBENI KOD ORDERING CODE

Prilikom naručivanja sklopke potrebno je definirati:

- za **standardnu rastavnu sklopku** 3 tipa podataka **1 2 3**
- za sklopke s **posebnom izvedbom** maksimalno 5 tipova podataka **1 2 3 4 5** ili **1 2 3 4 6**
- za sklopku sa **specijalnim zahtjevima** maksimalno 6 tipova podataka **1 2 3 4 5 Y** ili **1 2 3 4 6 Y**

When ordering please define:

- for **standard switch disconnecter** three data types **1 2 3**
- for switch with an **optional extra** max. 5 data types **1 2 3 4 5** or **1 2 3 4 6**
- for switch with **special requests** max. 6 data types **1 2 3 4 5 Y** or **1 2 3 4 6 Y**



OPIS

DESCRIPTION

1	Tip sklopke. Odabire se prema tehničkim zahtjevima i ugradbenoj veličini (vidi stranicu 117).	Switch type. To be chosen in accordance with the technical requests and mounting size (see page 117).
2	Broj polova	Number of poles
Y	Prednji sklop. Upisuje se samo ako se traži nestandardna kombinacija boja i oblika prednjeg sklopa. Kod standardne izvedbe ručica, prednja ploča i tekst na sivoj podlozi su crni.	Front part. To be marked only when non-standard front part colour and form combination is required. For standard form - handle, front plate and text on the silver escutcheon plate are black.
3	Standardni oblici ugradnje (vidi stranicu 121) U - ugradna O - odvojena ugradnja P - plastično kućište	Standard mounting forms (see page 121) U - front mounting O - rear mounting P - plastic enclosure
4	Upisuje se ako se traži posebna izvedba (vidi stranice 122 - 133).	To be marked when an optional extra is required (see pages 122 - 133).
5	"N" se upisuje ako se traži prednja ploča s natpisom.	"N" is to be written when the front plate with a title is required.
6	Kućišta se standardno isporučuju za kabelaške uvodnice tipa Pg. Za metričke kabelaške uvodnice potrebno je upisati "M".	Enclosures are supplied as standard for cable glands type Pg. For metric cable glands is necessary to enter "M".

Y - PREDNJI SKLOP *FRONT PART*

Tablice prikazuju moguće kombinacije boja prednjeg sklopa i pripadajuće kodne oznake. Prva linija odnosi se na **standardnu** kombinaciju za koju nije potrebno upisivati kod.

The tables show possible front part colour combinations and corresponding codes to be marked. The first line refers to the **standard** combination for which no code is to be marked.

1. OBLIK UGRADNJE:

Ugradna sklopka (U) ili sklopka za odvojenu ugradnju (O).

1. MOUNTING FORM:

Front mounting (U) or rear mounting (O).

				KOD / CODE		
Ručica Handle	Prednja ploča Front plate	Podloga Escutch. plate	Tekst Text	Y	Prednji sklop Front part	3 Oblik ugradnje Mounting form
crna black	crna black	siva grey	crna black			
crna black	crna black	bijela white	crna black		10	U ili / or O
crna black	crna black	crna black	bijela white		20	
siva grey	siva grey	siva grey	crna black		30	
siva grey	siva grey	bijela white	crna black		40	

PRIMJER: Za troliniju rastavnu sklopku CS16, standardna kombinacija boja, ugradna, narudžbena oznaka glasi:

EXAMPLE: For 3 poles switch disconnector CS16, standard colour combination, front mounting, the ordering code is:

CS16 - 3P - U

Ista rastavna sklopka, ali sa sivom ručicom, sivom prednjom pločom, bijelom podlogom i crnim tekstom ima narudžbenu oznaku:




The same switch disconnector but with grey handle, grey front plate, white escutcheon plate, black text, has the ordering code:

CS16 - 3P - 40 U

NAPOMENA: za specijalne izvedbe 06, 06D, 41/42, 41D, 48/48D, 56, 71/72, 76/77, 85 i 87 kombinacije boja su opisane u poglavlju POSEBNE IZVEDBE

REMARK: for optional extras 06, 06D, 41/42, 41D, 48/48D, 56, 71/72, 76/77, 85 and 87 combination of colours are described in the head OPTIONAL EXTRAS

STANDARDNI OBLICI UGRADNJE *STANDARD MOUNTING FORMS*

Oblik ugradnje Mounting form	Oznaka Marking	Zaštita Protection		Tip Type	Izgled Outlook
		Prednja Front	Stražnja Rear		
Ugradna sklopka <i>Front mounting</i>	U	IP 65	IP 20	CS16 CS16H CS25 CS25H CS32 CS32H CS40R CS40RH	
			IP 00	CS40 CS63 CS80 CS100 CS125 CS160 CS200	
Sklopka za odvojenu ugradnju <i>Rear mounting</i>	O	IP 65	IP 20	CS16 CS16H CS25 CS25H CS32 CS32H CS40R CS40RH	
			IP 00	CS40 CS63 CS80 CS100 CS125 CS160 CS200	
Sklopka u plastičnom kućištu <i>Switch in plastic enclosure</i>	P	IP65 IP65 IP65 IP65 IP65 IP65 IP65		CS16 CS16H CS25 CS25H CS32 CS32H CS40R CS40RH CS40 CS63 CS80 CS100 CS125 CS160 CS200	

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SKLOPKE SA ZAKLJUČAVANJEM LOKOTOM *SWITCH DISCONNECTORS WITH PADLOCK*



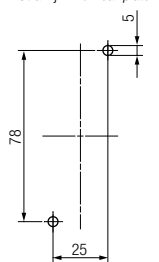
56

Standardno zaključavanje u "0". Moguća zaključavanja s 1 - 3 lokota.

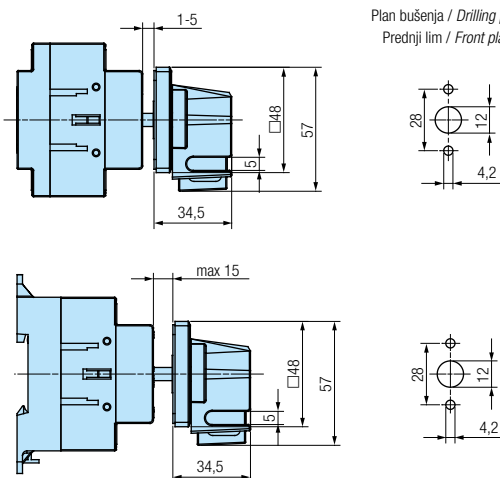
In standard manner locking is in "0". It is possible to use 1 - 3 padlocks.

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	siva / grey	
siva / grey	siva / grey	siva / grey	20
crvena - žuta / red - yellow	žuta / yellow	žuta / yellow	40

Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Plan bušenja / Drilling plan
Prednji lim / Front plate



Ugradna sklopka / Front mounting - U

Tip sklopke
Switch type

CS16
CS25
CS32
CS40R

Sklopka za odvojenu ugradnju / Rear mounting - O

Tip sklopke
Switch type

CS16
CS25
CS32
CS40R



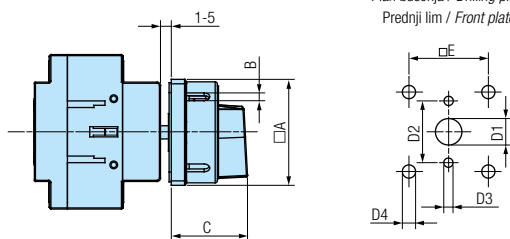
06

Standardno zaključavanje u "0"

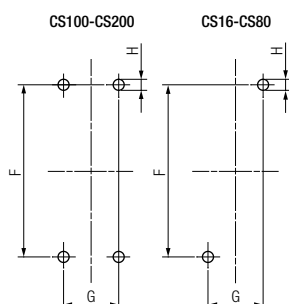
In standard manner locking is in "0"

RUČICA HANDLE	ČEONA PLOČA COVER PLATE	PREDNJA PLOČA FRONT PLATE	Y KOD / CODE
crna / black	crna / black	crna / black	
siva / grey	siva / grey	siva / grey	20
crvena / red	žuta / yellow	žuta / yellow	40

Plan bušenja / Drilling plan
Prednji lim / Front plate



Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Ugradna sklopka / Front mounting - U

Tip sklopke Switch type	□A	B	C	D1	D2	D3	D4	□E
CS16	48	5	34,2	12	28	4,2	-	-
CS16H	65	6	38	12	28	4,2	-	-
CS25	48	5	34,2	12	28	4,2	-	-
CS25H	65	6	38	12	28	4,2	-	-
CS32	48	5	34,2	12	28	4,2	-	-
CS32H	65	6	38	12	28	4,2	-	-
CS40R	48	5	34,2	12	28	4,2	-	-
CS40RH	65	6	38	12	28	4,2	-	-
CS40	65	6	38	12	28	4,2	-	-
CS63	65	6	38	12	28	4,2	-	-
CS80	65	6	38	12	28	4,2	-	-
CS100	90	7	49	16	-	-	6	68
CS125	90	7	49	16	-	-	6	68
CS160	90	7	49	16	-	-	6	68
CS200	90	7	49	16	-	-	6	68

Sklopka za odvojenu ugradnju / Rear mounting - O

Tip sklopke Switch type	□A	B	C	D1	D2	D3	D4	□E	F	G	H
CS16	48	5	34,2	12	28	4,2	-	-	78	25	5
CS16H	65	6	38	12	28	4,2	-	-	78	25	5
CS25	48	5	34,2	12	28	4,2	-	-	78	25	5
CS25H	65	6	38	12	28	4,2	-	-	78	25	5
CS32	48	5	34,2	12	28	4,2	-	-	78	25	5
CS32H	65	6	38	12	28	4,2	-	-	78	25	5
CS40R	48	5	34,2	12	28	4,2	-	-	78	25	5
CS40RH	65	6	38	12	28	4,2	-	-	78	25	5
CS40	65	6	38	12	28	4,2	-	-	88	40	6
CS63	65	6	38	12	28	4,2	-	-	88	40	6
CS80	65	6	38	12	28	4,2	-	-	88	40	6
CS100	90	7	49	16	-	-	6	68	113,5	35	5
CS125	90	7	49	16	-	-	6	68	113,5	35	5
CS160	90	7	49	16	-	-	6	68	113,5	35	5
CS200	90	7	49	16	-	-	6	68	113,5	35	5

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

SKLOPKE SA ZAKLJUČAVANJEM LOKOTOM *SWITCH DISCONNECTORS WITH PADLOCK*



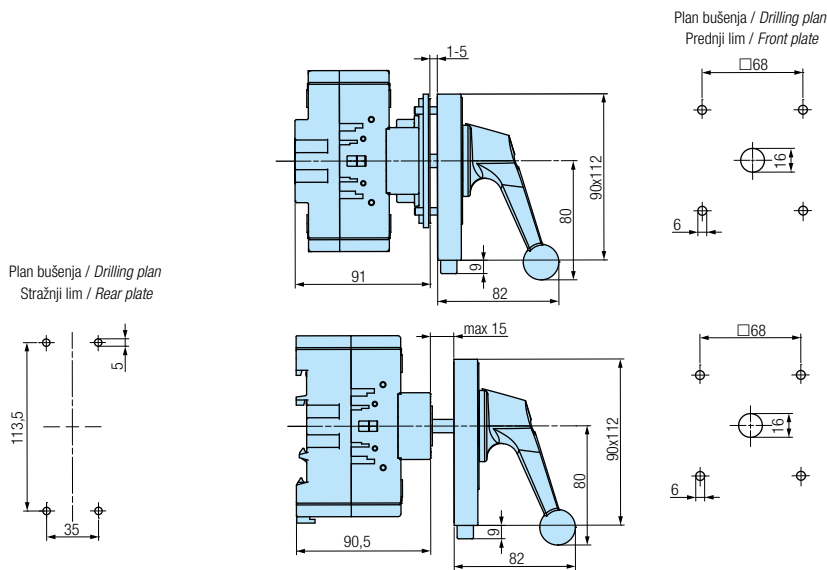
06D

Standardno zaključavanje u "0". Moguća zaključavanja s 1 - 4 lokota.

In standard manner locking is in "0". It is possible to use 1 - 4 padlocks

IP40

RUČICA HANDLE	PREDNJA PLOČA FRONT PLATE	PODLOGA ESCUTCH. PLATE	Y KOD / CODE
crna / black	crna / black	siva / grey	
siva / grey	siva / grey	siva / grey	20
crvena / red	žuta / yellow	žuta / yellow	40



Ugradna sklopka / *Front mounting - U*

Tip sklopke Switch type
CS100
CS125
CS160
CS200

Sklopka za odvojenu ugradnju / *Rear mounting - O*

Tip sklopke Switch type
CS100
CS125
CS160
CS200

GLAVNA SKLOPKA *MAIN SWITCH* GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*



**23
25**

Zaključavanje samo u "0".
Zaštita od slučajnog dodira dovodnih priključnih stezaljki pod naponom.

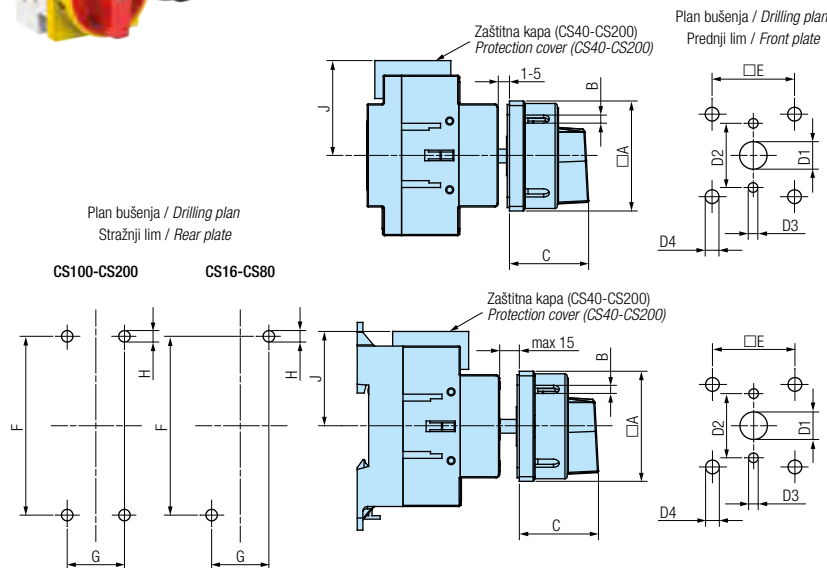
*Locking only in "0".
Protection against an accidental contact with the supplying terminals under voltage.*

Ugradna sklopka / *Front mounting - U*

Tip sklopke Switch type	□A	B	C	D1	D2	D3	D4	□E	J
CS16	48	5	34,2	12	28	4,2	-	-	-
CS16H	65	6	38	12	28	4,2	-	-	-
CS25	48	5	34,2	12	28	4,2	-	-	-
CS25H	65	6	38	12	28	4,2	-	-	-
CS32	48	5	34,2	12	28	4,2	-	-	-
CS32H	65	6	38	12	28	4,2	-	-	-
CS40R	48	5	34,2	12	28	4,2	-	-	-
CS40RH	65	6	38	12	28	4,2	-	-	-
CS40	65	6	38	12	28	4,2	-	-	50
CS63	65	6	38	12	28	4,2	-	-	50
CS80	65	6	38	12	28	4,2	-	-	50
CS100	90	7	49	16	-	-	6	68	76
CS125	90	7	49	16	-	-	6	68	76
CS160	90	7	49	16	-	-	6	68	76
CS200	90	7	49	16	-	-	6	68	76

Sklopka za odvojenu ugradnju / *Rear mounting - O*

Tip sklopke Switch type	□A	B	C	D1	D2	D3	D4	□E	F	G	H	J
CS16	48	5	34,2	12	28	4,2	-	-	78	25	5	-
CS16H	65	6	38	12	28	4,2	-	-	78	25	5	-
CS25	48	5	34,2	12	28	4,2	-	-	78	25	5	-
CS25H	65	6	38	12	28	4,2	-	-	78	25	5	-
CS32	48	5	34,2	12	28	4,2	-	-	78	25	5	-
CS32H	65	6	38	12	28	4,2	-	-	78	25	5	-
CS40R	48	5	34,2	12	28	4,2	-	-	78	25	5	-
CS40RH	65	6	38	12	28	4,2	-	-	78	25	5	-
CS40	65	6	38	12	28	4,2	-	-	88	40	6	50
CS63	65	6	38	12	28	4,2	-	-	88	40	6	50
CS80	65	6	38	12	28	4,2	-	-	88	40	6	50
CS100	90	7	49	16	-	-	6	68	113,5	35	5	76
CS125	90	7	49	16	-	-	6	68	113,5	35	5	76
CS160	90	7	49	16	-	-	6	68	113,5	35	5	76
CS200	90	7	49	16	-	-	6	68	113,5	35	5	150



POSEBNE IZVEDBE *OPTIONAL EXTRAS*

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

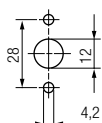
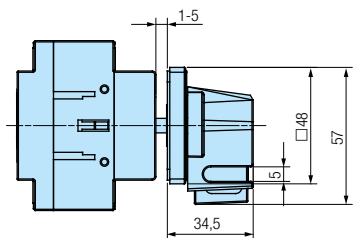


73
75

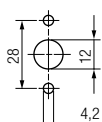
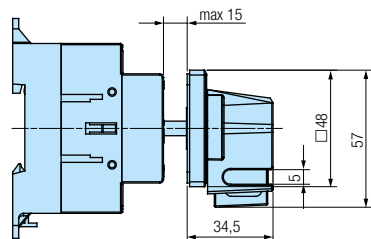
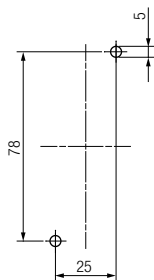
Zaključavanje (1 - 3 lokota) samo u "0". Zaštita od slučajnog dodira dovodnih stezaljki pod naponom.

Locking (1 - 3) only in "0". Protection against an accidental contact with the supplying terminals under voltage.

Plan bušenja / Drilling plan
Prednji lim / Front plate



Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Ugradna sklopka Front mounting - U

Tip sklopke
Switch type

CS16
CS25
CS32
CS40R

Sklopka za odvojenu ugradnju Rear mounting - O

Tip sklopke
Switch type

CS16
CS25
CS32
CS40R

GLAVNA SKLOPKA *MAIN SWITCH*

GLAVNA SKLOPKA UJEDNO I SKLOPKA ZA NUŽNO ISKLAPANJE *MAIN SWITCH WITH EMERGENCY*

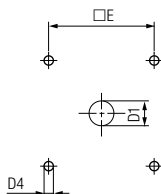
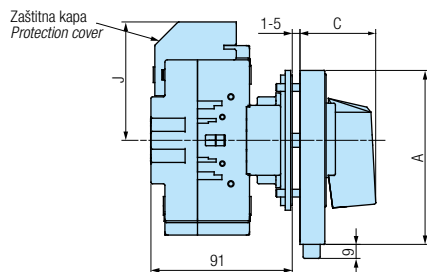


63D
65D

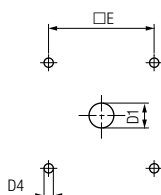
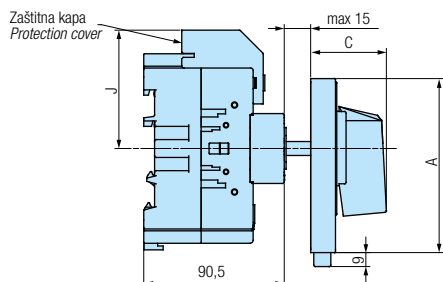
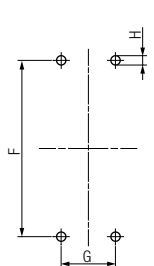
Standardno zaključavanje u "0". Zaštita od slučajnog dodira dovodnih stezaljki pod naponom.

In standard manner locking is in "0". Protection against an accidental contact with the supplying terminals under voltage.

Prednji lim / Front plate
Plan bušenja / Drilling plan



Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Ugradna sklopka / Front mounting - U

Tip sklopke Switch type	A	B	C	D1	D4	□E	J
CS100	90x112	5	48	16	6	68	76
CS125	90x112	5	48	16	6	68	76
CS160	90x112	5	48	16	6	68	76
CS200	90x112	5	48	16	6	68	150

Sklopka za odvojenu ugradnju / Rear mounting - O

Tip sklopke Switch type	A	B	C	D1	D4	□E	F	G	H	J
CS100	90x112	5	48	16	6	68	113,5	35	5	76
CS125	90x112	5	48	16	6	68	113,5	35	5	76
CS160	90x112	5	48	16	6	68	113,5	35	5	76
CS200	90x112	5	48	16	6	68	113,5	35	5	150

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

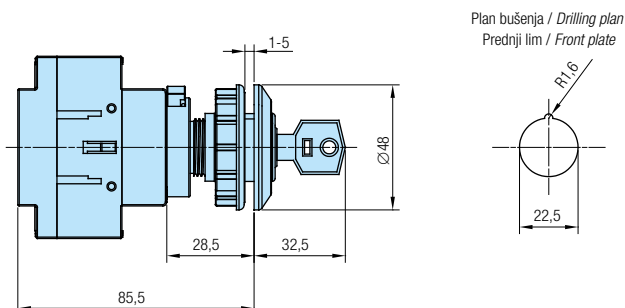
CENTRALNA UGRADNJA CENTRAL MOUNTING



29K

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa.

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part.



Ugradna sklopka
Front mounting - U

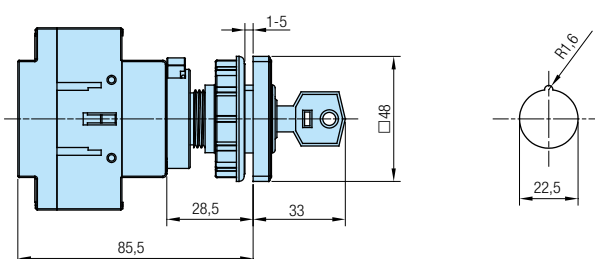
Tip sklopke Switch type
CS16
CS25
CS32
CS40R



29D

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa.

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part.



Ugradna sklopka
Front mounting - U

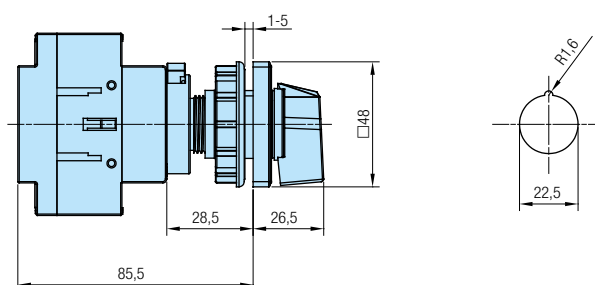
Tip sklopke Switch type
CS16
CS25
CS32
CS40R



47

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa.

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part.



Ugradna sklopka
Front mounting - U

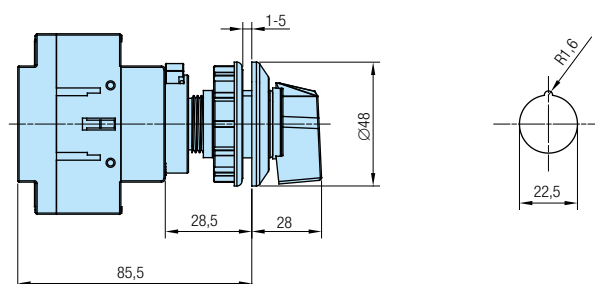
Tip sklopke Switch type
CS16
CS25
CS32
CS40R



67

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa.

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part.



Ugradna sklopka
Front mounting - U

Tip sklopke Switch type
CS16
CS25
CS32
CS40R

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

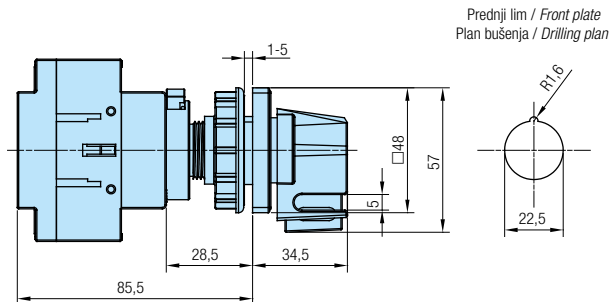
CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*



41D

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa. Zaključavanje (1 - 3 lokota) u "0".

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part. Padlocking (1 - 3) in "0".



Prednji lim / Front plate
Plan bušenja / Drilling plan

Ugradna sklopka
Front mounting - U

Tip sklopke <i>Switch type</i>
CS16
CS25
CS32
CS40R

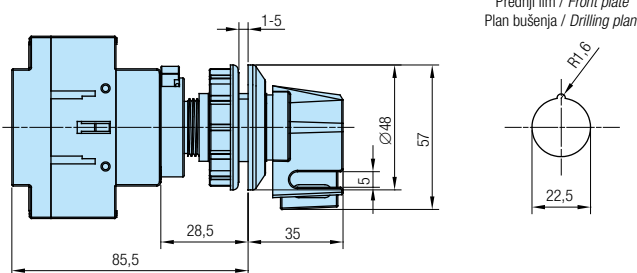
RUČICA <i>HANDLE</i>	PREDNJA PLOČA <i>FRONT PLATE</i>	PODLOGA <i>ESCUTCH. PLATE</i>	Y KOD / CODE
crna / black	crna / black	siva / gray	20
siva / grey	siva / grey	siva / gray	40
crvena - žuta / red - yellow	žuta / yellow	žuta / yellow	



41K

Ugradnja u Ø22 mm. Utična montaža rastavne sklopke i prednjeg sklopa. Zaključavanje (1 - 3 lokota) u položaju "0".

Mounting into Ø22 mm. Snap-on mounting of switch-disconnector with front part. Padlocking (1 - 3) in "0".



Prednji lim / Front plate
Plan bušenja / Drilling plan

Ugradna sklopka
Front mounting - U

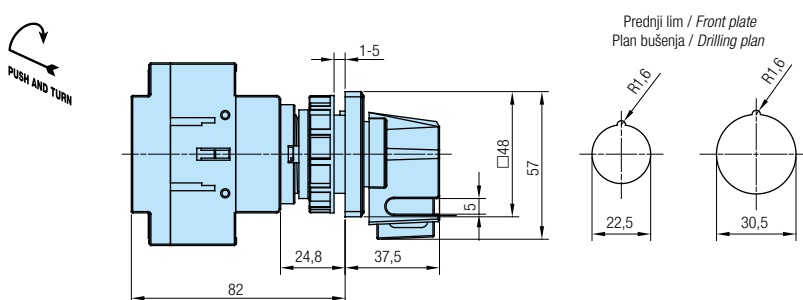
Tip sklopke <i>Switch type</i>
CS16
CS25
CS32
CS40R



71
72

Ugradnja u Ø22 mm (izvedba 71) odnosno Ø30 mm (izvedba 72). Zaključavanje (1 - 3 lokota) u položaju "0".

Mounting into Ø22 mm (optional extra 71) or Ø30 mm (optional extra 72). Padlocking (1 - 3) in "0".



Prednji lim / Front plate
Plan bušenja / Drilling plan

Ugradna sklopka
Front mounting - U

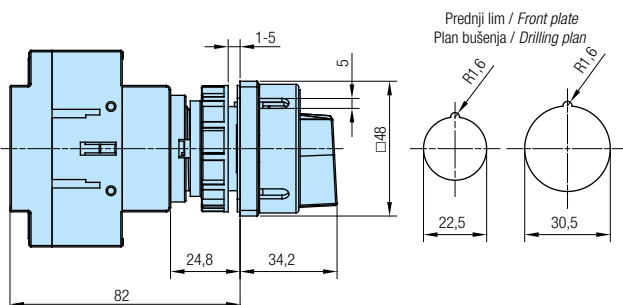
Tip sklopke <i>Switch type</i>
CS16
CS25
CS32
CS40R



76
77

Ugradnja u Ø22 mm (izvedba 76) odnosno Ø30 mm (izvedba 77). Zaključavanje (1 - 3 lokota) u položaju "0".

Mounting into Ø22 mm (optional extra 76) or Ø30 mm (optional extra 77). Padlocking (1 - 3) in "0".



Prednji lim / Front plate
Plan bušenja / Drilling plan

Ugradna sklopka
Front mounting - U

Tip sklopke <i>Switch type</i>
CS16
CS25
CS32
CS40R

RUČICA <i>HANDLE</i>	ČEONA PLOČA <i>COVER PLATE</i>	PREDNJA PLOČA <i>FRONT PLATE</i>	Y KOD / CODE
crna / black	crna / black	crna / black	20
siva / grey	siva / grey	siva / grey	40
crvena / red	žuta / yellow	žuta / yellow	

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

CENTRALNA UGRADNJA - SKLOPKE SA ZAKLJUČAVANJEM *CENTRAL MOUNTING - SWITCHES WITH LOCKING*

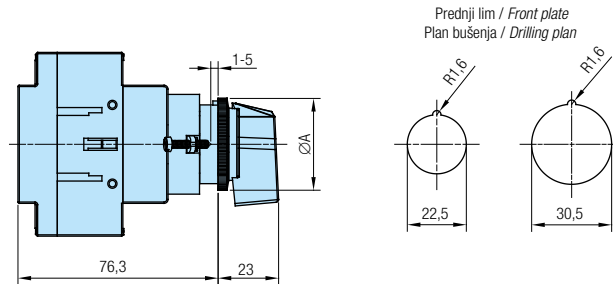


11
09

Ugradnja u Ø22 mm (izvedba 11) odnosno Ø30 mm (izvedba 09).

Mounting into Ø22 mm (optional extra 11) or Ø30 mm (optional extra 09).

IP40



**Ugradna sklopka
Front mounting - U**

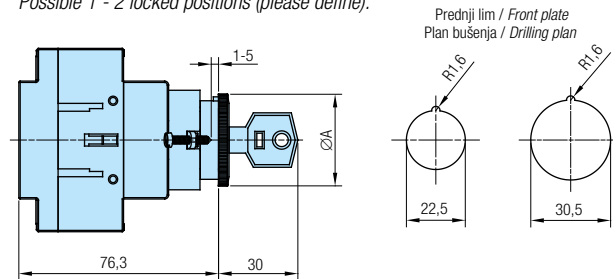
Tip sklopke Switch type	ØA	
	11	09
CS16	28	35
CS25	28	35
CS32	28	35
CS40R	28	35



12
10

Ugradnja u Ø22 mm (izvedba 12) odnosno Ø30 mm (izvedba 10). Standardno zaključavanje odnosno vađenje ključa u položaju "0". Na zahtjev moguća 1 - 2 zaključana položaja (vađenje ključa) - potrebno definirati.

Mounting into Ø22 mm (optional extra 12) or Ø30 mm (optional extra 10). Locking and pull-out of the key in "0". Possible 1 - 2 locked positions (please define).



**Ugradna sklopka
Front mounting - U**

Tip sklopke Switch type	ØA	
	12	10
CS16	28	35
CS25	28	35
CS32	28	35
CS40R	28	35

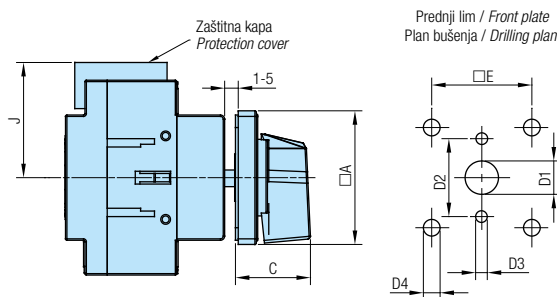
ZAŠTITNA KAPA *PROTECTION COVER*



69

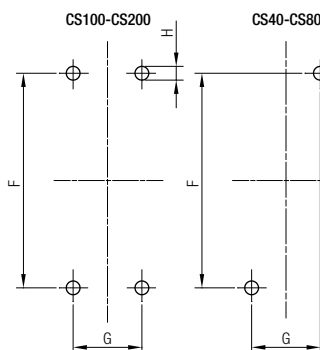
Zaštita od slučajnog dodira dovodnih priključnih stezaljki. Standardno - zaštita dovodnih priključnih stezaljki (gornja strana).

Protection against an accidental contact with the supplying terminals. Standard manner supplying terminals are protected (top side).



Ugradna sklopka / Front mounting - U

Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E	J
CS40	65	38	12	28	4,2	-	-	50
CS63	65	38	12	28	4,2	-	-	50
CS80	65	38	12	28	4,2	-	-	50
CS100	90	49	16	-	-	6	68	76
CS125	90	49	16	-	-	6	68	76
CS160	90	49	16	-	-	6	68	76
CS200	90	49	16	-	-	6	68	150



Sklopka za odvojenu ugradnju / Rear mounting - O

Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E	F	G	H	J
CS40	65	38	12	28	4,2	-	-	88	40	6	50
CS63	65	38	12	28	4,2	-	-	88	40	6	50
CS80	65	38	12	28	4,2	-	-	88	40	6	50
CS100	90	49	16	-	-	6	68	113,5	35	5	76
CS125	90	49	16	-	-	6	68	113,5	35	5	76
CS160	90	49	16	-	-	6	68	113,5	35	5	76
CS200	90	49	16	-	-	6	68	113,5	35	5	150

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

INSTALACIONA KAPA *SERVICE COVER*

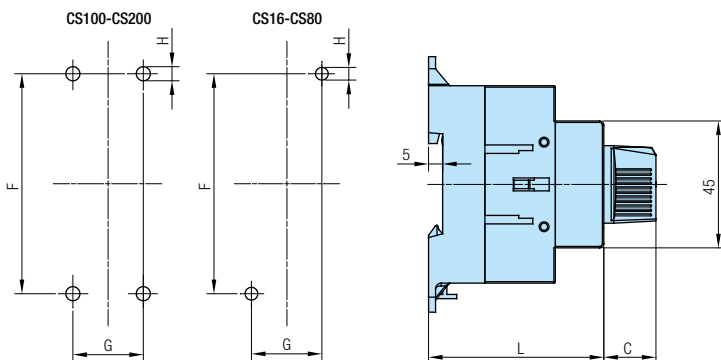


48D

Montaža na šinu 35 EN 50022 s instalacionom kapom za ugradnju u standardni otvor 45 mm.

Snap-on base mounting for the rail 35 EN 50022 for 45 mm standard knock-out.

Stražnji lim / Rear plate
Plan bušenja / Drilling plan



Sklopka za odvojenu ugradnju *Rear mounting - O*

Tip sklopke Switch type	C	G	F	H	L
CS16	16	25	78	5	62
CS25	16	25	78	5	62
CS32	16	25	78	5	62
CS40R	16	25	78	5	62
CS40	26	40	88	6	62
CS63	26	40	88	6	62
CS80	26	40	88	6	62
CS100	23	35	113,5	5	90,5
CS125	23	35	113,5	5	90,5
CS160	23	35	113,5	5	90,5
CS200	23	35	113,5	5	90,5

RUČICA HANDLE	Y KOD / CODE
crna / black	
crvena / red	40

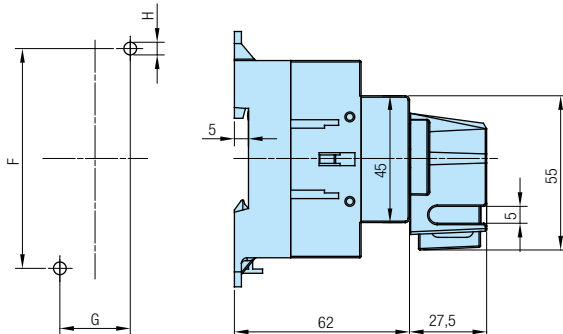


48D, 56

Standardno zaključavanje u "0". Moguće zaključavanje s 1 - 3 lokota.

In standard manner locking is in "0". It is possible to use 1 - 3 padlocks.

Stražnji lim / Rear plate
Plan bušenja / Drilling plan



Sklopka za odvojenu ugradnju *Rear mounting - O*

Tip sklopke Switch type	F	G	H
CS16	78	25	5
CS25	78	25	5
CS32	78	25	5
CS40R	78	25	5
CS40	88	40	6
CS63	88	40	6
CS80	88	40	6

RUČICA HANDLE	Y KOD / CODE
crna / black	
siva / grey	20
crvena - žuta red - yellow	40

SIGNALNE SVJETILJKE *SIGNAL LAMPS*



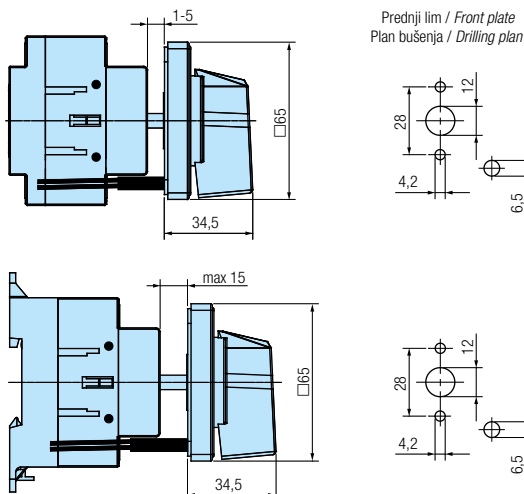
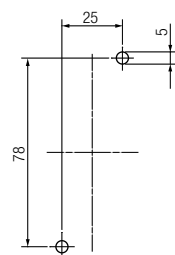
15

Standardno se ugrađuje crvena svjetiljka (230 V), desno dolje. Mogući naponi 110 i 400 V kao i zelena boja svjetiljke (potrebno definirati). Na poseban zahtjev ugrađujemo i drugu svjetiljku lijevo dolje.

In a standard manner, the red lamp (230 V) is built in the right bottom corner. Possible voltages are 110 and 400 V and green lamp, too (please define). On special request second lamp can be built in the left bottom corner.

IP40

Stražnji lim / Rear plate
Plan bušenja / Drilling plan



Prednji lim / Front plate
Plan bušenja / Drilling plan



Ugradna sklopka *Front mounting - U*

Tip sklopke Switch type
CS16
CS25
CS32
CS40R

Sklopka za odvojenu ugradnju *Rear mounting - O*

Tip sklopke Switch type
CS16
CS25
CS32
CS40R

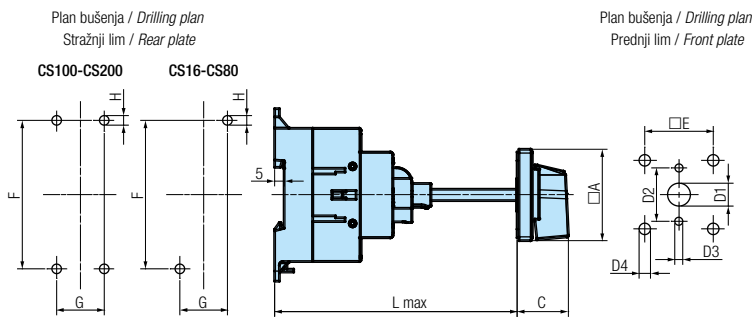
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PRODUŽENJE OSOVINE *EXTENSION SHAFT*



02

Standardna izvedba podrazumijeva da je $L = 250$ mm (300 mm za veličinu A2). Drugačiju dubinu ormara potrebno je definirati narudžbom.
Standard version includes the $L = 250$ mm (300 mm for size A2). For special version it is necessary to define board depth.



Sklopka za odvojenu ugradnju / *Rear mounting - 0*

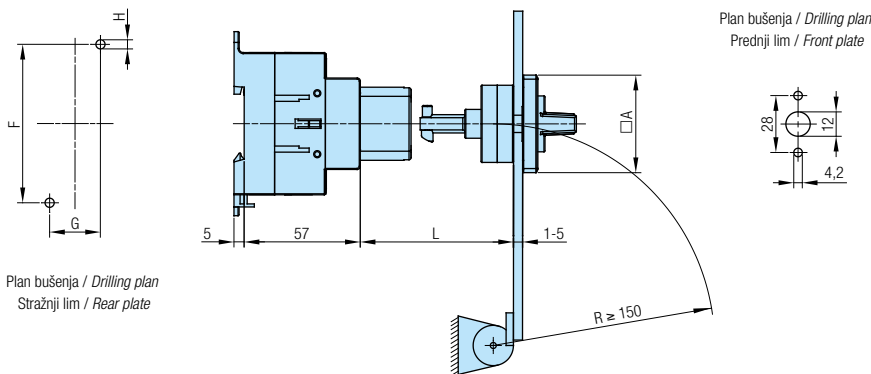
Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E	F	G	H	L _{max}
CS16	48	26,5	12	28	4,2	-	-	78	25	5	250
CS16H	65	34,5	12	28	4,2	-	-	78	25	5	250
CS25	48	26,5	12	28	4,2	-	-	78	25	5	250
CS25H	65	34,5	12	28	4,2	-	-	78	25	5	250
CS32	48	26,5	12	28	4,2	-	-	78	25	5	250
CS32H	65	34,5	12	28	4,2	-	-	78	25	5	250
CS40R	48	26,5	12	28	4,2	-	-	78	25	5	250
CS40RH	65	34,5	12	28	4,2	-	-	78	25	5	250
CS40	65	34,5	12	28	4,2	-	-	88	40	6	250
CS63	65	34,5	12	28	4,2	-	-	88	40	6	250
CS80	65	34,5	12	28	4,2	-	-	88	40	6	250
CS100	90	41,5	16	-	-	6	68	113,5	35	5	300
CS125	90	41,5	16	-	-	6	68	113,5	35	5	300
CS160	90	41,5	16	-	-	6	68	113,5	35	5	300
CS200	90	41,5	16	-	-	6	68	113,5	35	5	300

SPOJKA ZA VRATA *DOOR COUPLING*



57D
58D

Otvaranje vrata u bilo kojem položaju (izvedba 57D) ili samo u "0" (izvedba 58D). Minimalna udaljenost od šarke 150 mm.
Door opening in any position (57D) or only in "0" (58D). Minimal distance to the door-hinge 150 mm.



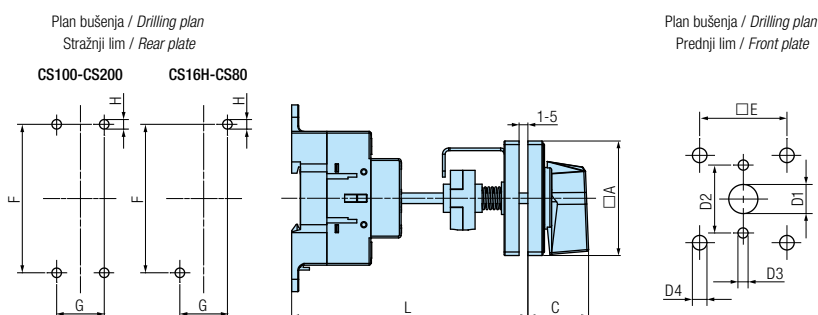
Sklopka za odvojenu ugradnju *Rear mounting - 0*

Tip sklopke Switch type	□A	F	G	H	L
CS16	48	78	25	5	45 - 55
CS16H	65	78	25	5	45 - 55
CS25	48	78	25	5	45 - 55
CS25H	65	78	25	5	45 - 55
CS32	48	78	25	5	45 - 55
CS32H	65	78	25	5	45 - 55
CS40R	48	78	25	5	45 - 55
CS40RH	65	78	25	5	45 - 55
CS40	65	88	40	6	45 - 55
CS63	65	88	40	6	45 - 55
CS80	65	88	40	6	45 - 55



07
08

Otvaranje vrata u bilo kojem položaju (izvedba 07) ili samo u "0" (izvedba 08). Minimalna udaljenost od šarke 150 mm.
Door opening in any position (07) or only in "0" (08). Minimal distance to the door-hinge 150 mm.

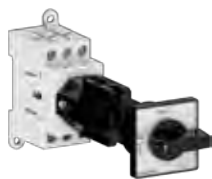


Sklopka za odvojenu ugradnju / *Rear mounting - 0*

Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E	F	G	H	L _{max}
CS16H	65	34,5	12	28	4,2	-	48	78	25	5	126
CS25H	65	34,5	12	28	4,2	-	48	78	25	5	126
CS32H	65	34,5	12	28	4,2	-	48	78	25	5	126
CS40RH	65	34,5	12	28	4,2	-	48	78	25	5	126
CS40	65	34,5	12	28	4,2	-	48	88	40	6	126
CS63	65	34,5	12	28	4,2	-	48	88	40	6	126
CS80	65	34,5	12	28	4,2	-	48	88	40	6	126
CS100	90	41,5	16	-	-	6	68	113,5	35	5	210
CS125	90	41,5	16	-	-	6	68	113,5	35	5	210
CS160	90	41,5	16	-	-	6	68	113,5	35	5	210
CS200	90	41,5	16	-	-	6	68	113,5	35	5	210

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PRODUŽENJE OSOVINE I SPOJKA ZA VRATA *EXTENSION SHAFT AND DOOR COUPLING*

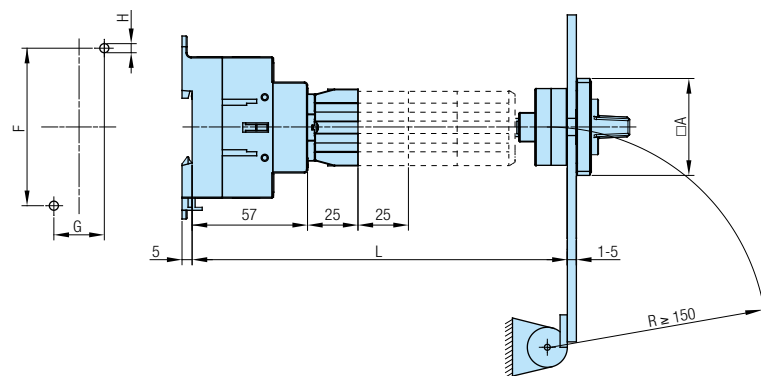


108D

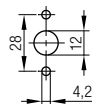
Upotreba kod rastavnih sklopki odvojene ugradnje, omogućava prilagodbu različitim dubinama ugradnje. Otvaranje vrata u položaju "0". Standardno se isporučuje s jednim modulom.

Used to adapt switch disconnectors with base mounting to different mounting depths. Door opening in position "0". Standard version with one module.

Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Plan bušenja / Drilling plan
Prednji lim / Front plate



Sklopka za odvojenu ugradnju *Rear mounting - 0*

Tip sklopke Switch type	□A	F	G	H
CS16	48	78	25	5
CS16H	65	78	25	5
CS25	48	78	25	5
CS25H	65	78	25	5
CS32	48	78	25	5
CS32H	65	78	25	5
CS40R	48	78	25	5
CS40RH	65	78	25	5
CS40	65	88	40	6
CS63	65	88	40	6
CS80	65	88	40	6

Kod Codes	Broj modula No. of modules	L min max	
108D	1	110	120
108D-2	2	135	145
108D-3	3	160	170
108D-4	4	185	195

KOD / CODE	IZVEDBA / VERSION
108D	Standardna izvedba s jednim modulom <i>Standard version with one module</i>
108D - 2	Izvedba s dva modula <i>Version with two modules</i>
108D - 3	Izvedba s tri modula <i>Version with three modules</i>
108D - 4	Izvedba s četiri modula <i>Version with four modules</i>

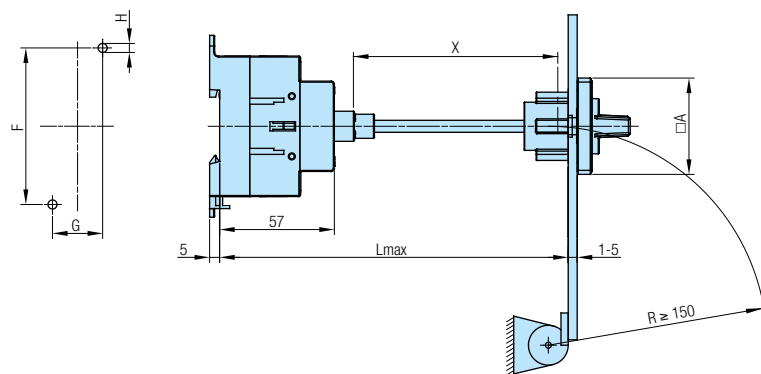


102

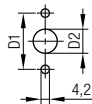
Otvaranje vrata u položaju "0". Standardno se isporučuje s osovinom dužine 100 mm.

Door-opening in position "0". Standard version with 100 mm shaft.

Plan bušenja / Drilling plan
Stražnji lim / Rear plate



Plan bušenja / Drilling plan
Prednji lim / Front plate



Sklopka za odvojenu ugradnju *Rear mounting - 0*

Tip sklopke Switch type	□A	D1	D2	F	G	H
CS16	48	28	12	78	25	5
CS16H	65	28	12	78	25	5
CS25	48	28	12	78	25	5
CS25H	65	28	12	78	25	5
CS32	48	28	12	78	25	5
CS32H	65	28	12	78	25	5
CS40R	48	28	12	78	25	5
CS40RH	65	28	12	78	25	5
CS40	65	28	12	88	40	6
CS63	65	28	12	88	40	6
CS80	65	28	12	88	40	6
CS100	90	39	21	113,5	35	5
CS125	90	39	21	113,5	35	5
CS160	90	39	21	113,5	35	5
CS200	90	39	21	113,5	35	5

Kod Code	X	L _{max}	
		CS16-80	CS100-200
102	100	175	155
102 - 200	200	275	255

KOD / CODE	IZVEDBA / VERSION
102	Standardna izvedba - osovina 100 mm <i>Standard version - shaft 100 mm</i>
102 - 200	Osovina 200 mm <i>Shaft 200 mm</i>

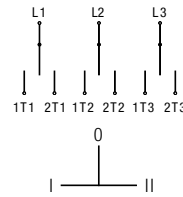
POSEBNE IZVEDBE *OPTIONAL EXTRAS*

PREKLOPKA CHANGEOVER



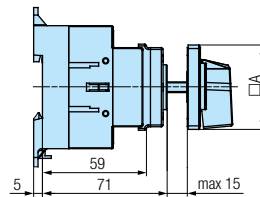
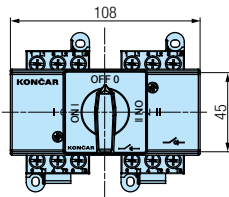
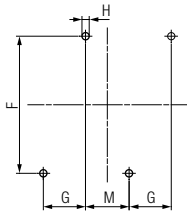
153

3-polna ili 4-polna preklopka s "0" položajem (I-0-II)
3-pole or 4-pole changeover with "0" position (I-0-II)



Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS16-CS80



Plan bušenja / Drilling plan
Prednji lim / Front plate



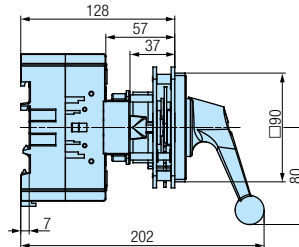
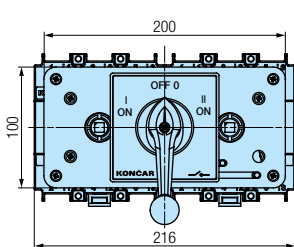
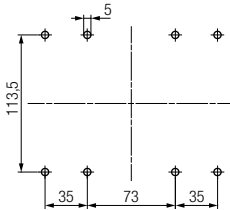
Sklopka za odvojenu ugradnju
Rear mounting - 0

Tip sklopke Switch type	□A	F	G	H	M
CS16	48	78	25	5	28
CS16H	65	78	25	5	28
CS25	48	78	25	5	28
CS25H	65	78	25	5	28
CS32	48	78	25	5	28
CS32H	65	78	25	5	28
CS40R	48	78	25	5	28
CS40RH	65	78	25	5	28
CS40	65	88	40	6	14
CS63	65	88	40	6	14
CS80	65	88	40	6	14



Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS100-CS200



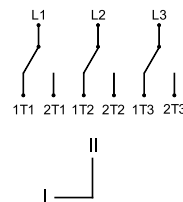
Sklopka za odvojenu ugradnju
Rear mounting - 0

Tip sklopke Switch type
CS100
CS125
CS160
CS200



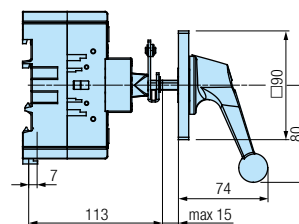
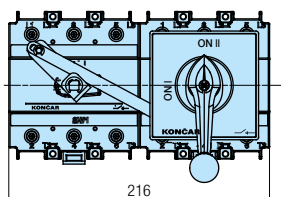
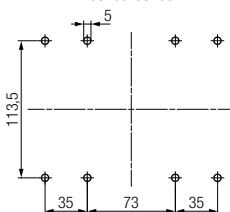
153D

3-polna ili 4-polna preklopka bez "0" položaja (I-II).
3-pole or 4-pole changeover without "0" position (I-II).

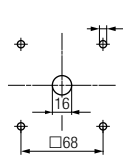


Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS100-CS200



Plan bušenja / Drilling plan
Prednji lim / Front plate



Sklopka za odvojenu ugradnju
Rear mounting - 0

Tip sklopke Switch type
CS100
CS125
CS160
CS200

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

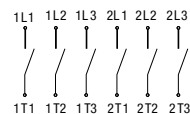
PARALELNI POGON DVIJE RASTAVNE SKLOPKE *TANDEM DRIVE OF TWO SWITCH-DISCONNECTORS*



134

Paralelni pogon dvije rastavne sklopke (6-polna ili 8-polna rastavna sklopka).

Tandem drive of two switch-disconnectors (6-poles or 8-poles switch-disconnectors).

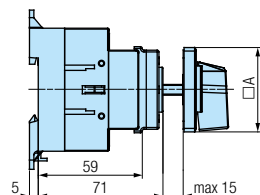
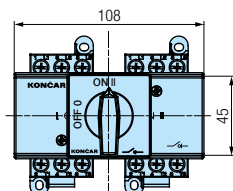
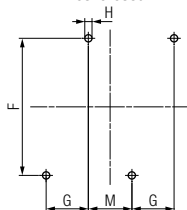


Sklopka za odvojenu ugradnju
Rear mounting - O

Tip sklopke Switch type	□A	F	G	H	M
CS16	48	78	25	5	28
CS16H	65	78	25	5	28
CS25	48	78	25	5	28
CS25H	65	78	25	5	28
CS32	48	78	25	5	28
CS32H	65	78	25	5	28
CS40R	48	78	25	5	28
CS40RH	65	78	25	5	28
CS40	65	88	40	6	14
CS63	65	88	40	6	14
CS80	65	88	40	6	14

Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS16-CS80

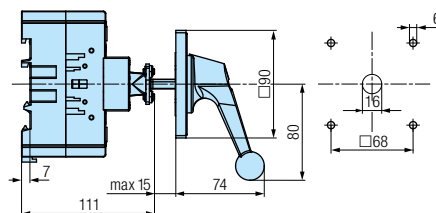
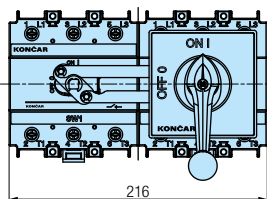
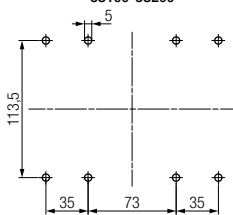


Plan bušenja / Drilling plan
Prednji lim / Front plate

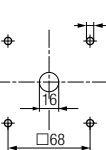


Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS100-CS200



Plan bušenja / Drilling plan
Prednji lim / Front plate



Sklopka za odvojenu ugradnju
Rear mounting - O

Tip sklopke Switch type
CS100
CS125
CS160
CS200

SKLOPKA ZA NUŽNO ISKLAPANJE *EMERGENCY OFF SWITCH*

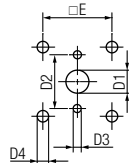
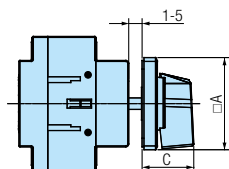


24

Standardna rastavna sklopka sa žutom prednjom pločom, žutom podlogom i crvenom ručicom.

Standard switch-disconnector with yellow front plate, yellow escutcheon plate and red handle.

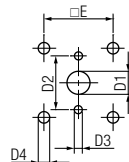
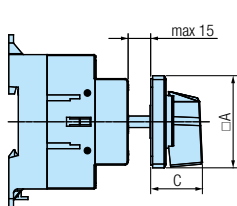
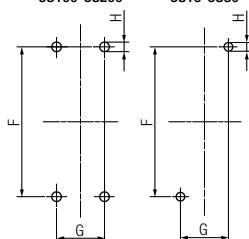
Plan bušenja / Drilling plan
Prednji lim / Front plate



Plan bušenja / Drilling plan
Stražnji lim / Rear plate

CS100-CS200

CS16-CS80



Ugradna sklopka / *Front mounting - U*

Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E
CS16	48	34,2	12	28	4,2	-	-
CS16H	65	38	12	28	4,2	-	-
CS25	48	34,2	12	28	4,2	-	-
CS25H	65	38	12	28	4,2	-	-
CS32	48	34,2	12	28	4,2	-	-
CS32H	65	38	12	28	4,2	-	-
CS40R	48	34,2	12	28	4,2	-	-
CS40RH	65	38	12	28	4,2	-	-
CS40	65	38	12	28	4,2	-	-
CS63	65	38	12	28	4,2	-	-
CS80	65	38	12	28	4,2	-	-
CS100	90	49	16	-	-	6	68
CS125	90	49	16	-	-	6	68
CS160	90	49	16	-	-	6	68
CS200	90	49	16	-	-	6	68

Sklopka za odvojenu ugradnju / *Rear mounting - O*

Tip sklopke Switch type	□A	C	D1	D2	D3	D4	□E	F	G	H
CS16	48	34,2	12	28	4,2	-	-	78	25	5
CS16H	65	38	12	28	4,2	-	-	78	25	5
CS25	48	34,2	12	28	4,2	-	-	78	25	5
CS25H	65	38	12	28	4,2	-	-	78	25	5
CS32	48	34,2	12	28	4,2	-	-	78	25	5
CS32H	65	38	12	28	4,2	-	-	78	25	5
CS40R	48	34,2	12	28	4,2	-	-	78	25	5
CS40RH	65	38	12	28	4,2	-	-	78	25	5
CS40	65	38	12	28	4,2	-	-	88	40	6
CS63	65	38	12	28	4,2	-	-	88	40	6
CS80	65	38	12	28	4,2	-	-	88	40	6
CS100	90	49	16	-	-	6	68	113,5	35	5
CS125	90	49	16	-	-	6	68	113,5	35	5
CS160	90	49	16	-	-	6	68	113,5	35	5
CS200	90	49	16	-	-	6	68	113,5	35	5

POSEBNE IZVEDBE *OPTIONAL EXTRAS*

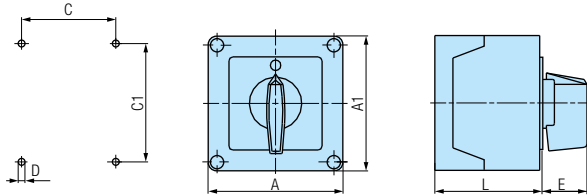
PLASTIČNO KUĆIŠTE *PLASTIC ENCLOSURE*



24

Standardna sklopka sa žutom podlogom i crvenom ručicom

Standard switch with yellow escutcheon plate and red handle



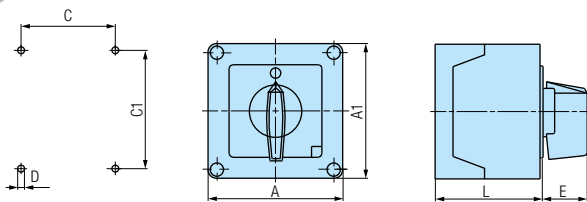
Tip sklopke Switch type	Veličina kućišta Enclosure size	A	A1	C	C1	D	E	L
CS16 CS25 CS32 CS40R	110 x 110	110	110	83	98,4	4,5	32	85,5
CS40 CS63 CS80	125 x 175	125	175	112	146	5,5	32	84,3
CS100 CS125 CS160 CS200	215 x 295	210	290	160	240	5,5	41,5	147,5



15

Standardno se ugrađuje crvena svjetiljka (230 V), desno dolje. Mogući naponi 110 i 400 V kao i zelena boja svjetiljke (potrebno definirati). Na poseban zahtjev ugrađujemo i drugu svjetiljku lijevo dolje.

In a standard manner, the red lamp (230 V) is built in the right bottom corner. Possible voltages are 110 and 400 V and green lamp, too (please define). On special request second lamp can be built in the left bottom corner.



Tip sklopke Switch type	Veličina kućišta Enclosure size	A	A1	C	C1	D	E	L
CS16 CS25 CS32 CS40R	110 x 110	110	110	83	98,4	4,5	32	85,5
CS40 CS63 CS80	125 x 175	125	175	112	146	5,5	32	84,3
CS100 CS125 CS160 CS200	215 x 295	210	290	160	240	5,5	41,5	147,5



06

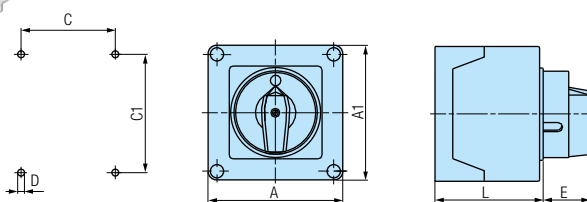
Zaključavanje samo u "0" / *Locking only in "0"*.

23

Glavna sklopka / *Main switch*

25

Glavna sklopka ujedno i sklopka za nužno isklapanje
Main switch with emergency.



	Ručica Handle	Čeona ploča Cover plate	Kućište Enclosure
06	siva / grey	siva / grey	siva / grey
23	crna / black	crna / black	siva / grey
25	crvena / red	žuta / yellow	siva / grey

Tip sklopke Switch type	Veličina kućišta Enclosure size	A	A1	C	C1	D	E	L
CS16 CS25 CS32 CS40R	110 x 110	110	110	83	98,4	4,5	38,5	85,5
CS40 CS63 CS80	125 x 175	125	175	112	146	5,5	38,5	84,3
CS100 CS125 CS160 CS200	215 x 295	210	290	160	240	5,5	49	147,5



56

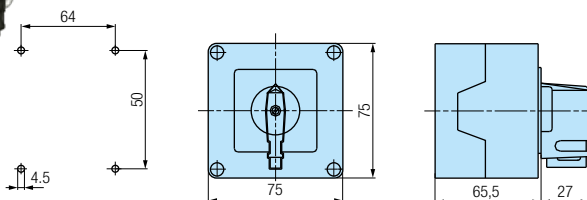
Zaključavanje samo u "0" (1 - 3 lokota) / *Locking only in "0" (1 - 3 padlocks)*

73

Glavna sklopka / *Main switch*

75

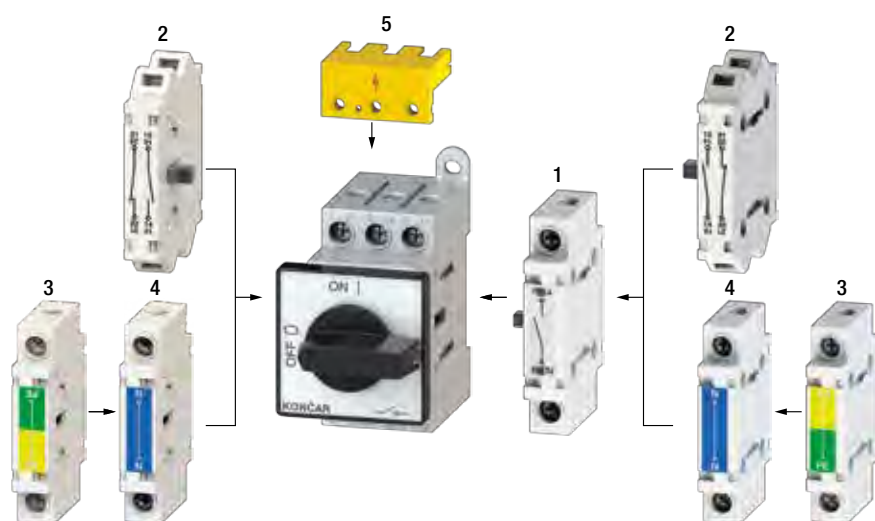
Glavna sklopka ujedno i sklopka za nužno isklapanje
Main switch with emergency.



	Ručica Handle	Podloga Escutch. plate	Kućište Enclosure	Y Kod / Code
56	crna / black	bijela / white	siva / grey	20
	siva / grey	bijela / white	siva / grey	
73	crna / black	crna / black	siva / grey	
75	crvena - žuta / red - yellow	žuta / yellow	siva / grey	

Tip sklopke Switch type
CS16
CS25
CS32
CS40R

PRIGRADNJE ACCESSORIES



- 1 - četvrti pol (N pol s prekidanjem)
fourth pole (switched neutral conductor)
- 2 - pomoćni kontakti (1NO+1NC ili 2NO)
auxiliary contacts (1NO+1NC or 2NO)
- 3 - PE stezaljka
PE terminal
- 4 - N stezaljka
N terminal
- 5 - zaštitna kapa
protection cover

Prigradnje se montiraju kada je rastavna sklopka u položaju "0".

Accessories must be mounted in position "0".

NARUDŽBENI KODOVI PRIGRADNJI ORDERING CODES FOR ACCESSORIES

4. POL 4. POLE



Tip sklopke Switch type	"U"	"0"
CS16	B71725	B71728
CS25	B71726	B71729
CS32	B71727	B71730
CS40R	B71761	B71762
CS40	B71745	B71748
CS63	B71746	B71749
CS80	B71747	B71750

raniji uklop - kasniji isklup
early make - late break



Tip sklopke Switch type	"U"	"0"
CS100	B72094	B72098
CS125	B72095	B72099
CS160	B72096	B72100
CS200	B72097	B72101

raniji uklop - kasniji isklup
early make - late break

PE STEZALJKA PE TERMINAL



Tip sklopke Switch type	"U"	"0"
CS16/CS25/CS32/CS40R	B71737	B71738
CS40/CS63/CS80	B71753	B71754



Tip sklopke Switch type	"U"	"0"
CS100/125/160	B72102	B72104
CS200	B72103	B72105

N STEZALJKA N TERMINAL



Tip sklopke Switch type	"U"	"0"
CS16/CS25/CS32/CS40R	B71735	B71736
CS40/CS63/CS80	B71751	B71752



Tip sklopke Switch type	"U"	"0"
CS100/125/160	B72106	B72108
CS200	B72107	B72109

NARUDŽBENI KODOVI PRIGRADNJI ORDERING CODES FOR ACCESSORIES

POMOĆNI KONTAKTI AUXILIARY CONTACTS

1NO+1NC

2NO



Vrsta pom. kontakata Type of aux. contacts	"U"	"O"
1NO+1NC	B71731	B71732
2NO	B71733	B71734

NO kontakt: kasniji uklop - raniji isklop
NO contact: late make - early break

ZAŠTITNA KAPA PROTECTION COVER



1P



3P

Broj polova Number of poles	"U" ili / or "O"		
	CS40 - CS80	CS100 - CS160	CS200
1P	B71755	B72110	B72473
3P	B71756	B72111	3x B72473

KUĆIŠTE ENCLOSURE



Veličina kućišta Enclosure size	Tip sklopke Switch type	Pg	M
110 x 110	CS16/25/32/40R	B71767	B71768
125 x 175	CS40/63/80	B71769	B71770
215 x 295	CS100/125/160/200	B72112	-

Plastično kućište se standardno isporučuje s priključcima za zemlju i nulu te standardnom ručicom.

Plastic enclosure is equipped with the earth and neutral terminals in addition to the standard handle.

MEHANIZAM MECHANISM

ZA 6/8 - POLNU RASTAVNU SKLOPKU
FOR 6/8 - POLE SWITCH DISCONNECTOR



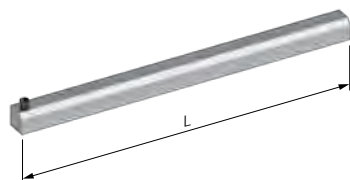
Tip sklopke Switch type	Narudžbeni broj Ordering code
CS16/25/32/40R CS40/63/80	B71766

ZA PREKLOPKU
FOR CHANGEOVER



Tip sklopke Switch type	Narudžbeni broj Ordering code
CS16/25/32/40R CS40/63/80	B71765

OSOVINA ZA POSEBNU IZVEDBU "102"
SHAFT FOR OPTIONAL EXTRA "102"



Tip sklopke Switch type	L [mm]	Narudžbeni broj Ordering code
CS16/25/32/40R/40/63/80	100	B71840
	200	B71841
CS100/125/160/200	100	B72516
	200	B72517



MODUL ZA POSEBNU IZVEDBU "108D"
MODULE FOR OPTIONAL EXTRA "108D"



Tip sklopke Switch type	Narudžbeni broj Ordering code
CS16/25/32/40R/40/63/80	B71717

REZERVNI DIJELOVI ACCESSORIES

RUČICE HANDLES

	Boja / Colour	NARUŽBENI KOD / ORDERING CODE					
		Veličina / Size					
		A0	A1	A2			
	siva / grey	R011-6	R111-6	R211-6	R211-7	R211-8	R211-9
	crvena / red	R012-6	R112-6	R212-6	R212-7	R212-8	R212-9
	crna / black	R014-6	R114-6	R214-6	R214-7	R214-8	R214-9
	žuta / yellow	R015-6	R115-6	R215-6	R215-7	R215-8	R215-9
	siva / grey		R121-6	R221-6	R221-7	R221-8	R221-9
	crvena / red		R122-6	R222-6	R222-7	R222-8	R222-9
	crna / black		R124-6	R224-6	R224-7	R224-8	R224-9
	žuta / yellow		R125-6	R225-6	R225-7	R225-8	R225-9

Zadnji broj u kodu ručice (6, 7, 8 ili 9) označava kvadrat osovine na koju se ručica montira.
Last number in ordering code (6, 7, 8 or 9) means the shaft square required for requested handle.
■ - standardna ručica za određenu ugradnu veličinu / standard handle for defined mounting size

PREDNJE PLOČE FRONT PLATES



Prednja ploča standardnog oblika. Moguća za sve veličine (A0, A1, A2).
Izrađuje se standardno u crnoj boji, a prema narudžbi u sivoj i žutoj.

Front plate - standard form. Available at all sizes (A0, A1, A2).
In a standard manner it is being produced in black colour; grey and yellow colour available on request.



Prednja ploča s natpisom. Moguća za sve veličine (A0, A1, A2).
Izrađuje se standardno u crnoj boji, a prema narudžbi u sivoj i žutoj.
Standardne podloge natpisa (N) vidi na stranici 138.

Front plate with title. Available at all sizes (A0, A1, A2).
In a standard manner it is being produced in black colour; grey and yellow colour available on request.
Standard escutcheon plates (N) see on page 138.

RUČICA SA ZAKLJUČAVANJEM PADLOCKABLE HANDLE



Zaključavanje samo u "0"
Padlocking in "0"

	NARUŽBENI KOD / ORDERING CODE			
	Veličina / Size			
	A0	A1	A2	
Boja / Colour	□6	□6	□8	□9
crna / black	610264	610607	B93921	B93645
siva / grey	610267	610282	B93922	B93647
crvena - žuta / red - yellow	610382	610386	B93920	B93646

GUMENA BRTVA RUBBER GASKET



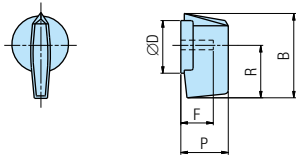
Ugradna veličina Mounting size	Narudžbeni kod Ordering code
A0 (□6)	602773
A1 (□6)	B71707
A2 (□9)	B93514

Napomena:
Za ostale kvadratne osovine, na upit.

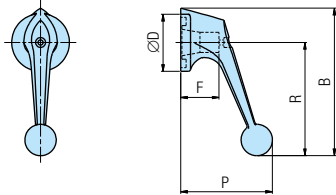
Remark:
For other shaft squers, on request.

REZERVNI DIJELOVI ACCESSORIES

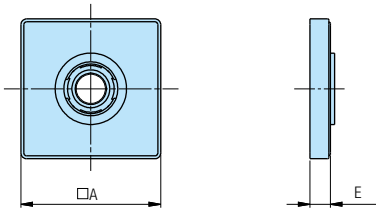
MJERNE SKICE DIMENSIONAL DRAWINGS (mm)



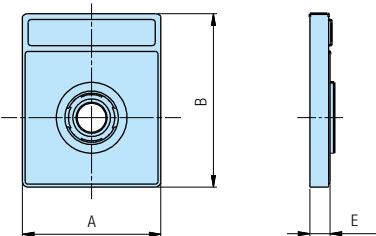
Ugradna veličina Mounting size	Oznaka / Marking				
	B	ØD	F	P	R
A0	39,5	27,5	16	19	23,5
A1	53	35	20	25	32
A2	70,5	48	26,5	32	43,5



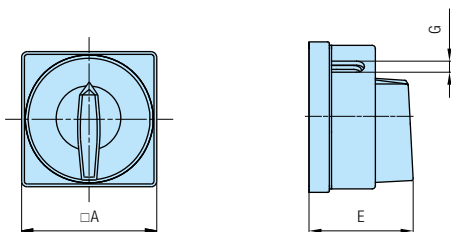
Ugradna veličina Mounting size	Oznaka / Marking				
	B	ØD	F	P	R
A1	81,5	35	23	52	61,5
A2	105,5	48	26,5	65	79,5



Ugradna veličina Mounting size	Oznaka / Marking	
	□A	E
A0	48	7,5
A1	65	9,5
A2	90	9,5



Ugradna veličina Mounting size	Oznaka / Marking		
	A	B	E
A0	48	60	7,5
A1	65	80,5	9,5
A2	90	110	9,5



Ugradna veličina Mounting size	Oznaka / Marking		
	□A	E	G
A0	48	34,2	5
A1	65	38	6
A2	90	49	8

PODLOGE *ESCUTCHEON PLATES*

PODLOGA "N" *ESCUTCHEON PLATE "N"*

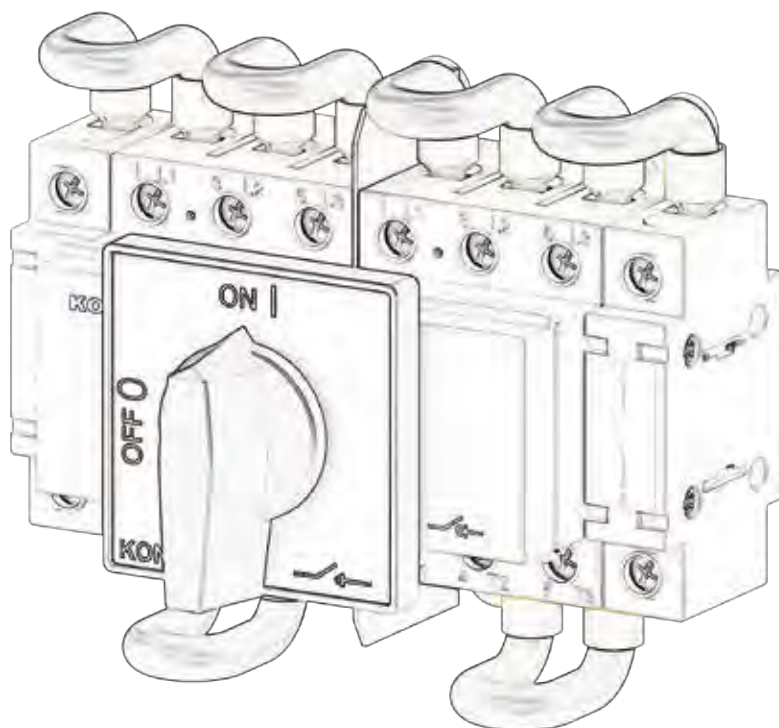
GLAVNA SKLOPKA N 01	MAIN SWITCH N 02	HAUPTSCHALTER N 03	NUŽNO ISKLAPANJE N 04	EMERGENCY OFF N 05	NOT-AUS N 06	MOTOR N 14	MOTOR CONTROL N 15	PUMPA N 16	PUMP N 17
PUMPE N 18	GRIJANJE N 19	HEIZUNG N 20	HLADENJE N 21	VENTILATOR N 22	RASVJETA N 23	BIRAČ N 24	WAHLSCHALTER N 25	SELECTOR N 26	N 31

PREGLED POSEBNIH IZVEDBI PO STRANICAMA *OPTIONAL EXTRAS - REVIEW*

POSEBNA IZVEDBA <i>OPTIONAL EXTRA</i>	Stranica <i>Page</i>	Prednja ploča s natpisom <i>Front plate with title</i> (N)	POSEBNA IZVEDBA <i>OPTIONAL EXTRA</i>	Stranica <i>Page</i>	Prednja ploča s natpisom <i>Front plate with title</i> (N)
02	129	+	48D,56	128	
06	122	+	56	122	+
06D	123		57D	129	+
07	129	+	58D	129	+
08	129	+	63D	124	
09	127		65D	124	
10	127		67	125	
11	127		69	127	+
12	127		71	126	
15	128	+	72	126	
23	123	+	73	124	+
24	132	+	75	124	+
25	123	+	76	126	+
29D	125		77	126	+
29K	125		102	130	+
41D	126		108D	130	+
41K	126		134	132	+
47	125		153	131	+
48D	128		153D	131	+

Rastavne sklopke za fotonaponske sustave

Switch-disconnectors for Photovoltaic Loads



Razvoj obnovljivih izvora energije na osnovi fotonaponskih panela ima za posljedicu razvoj rastavnih sklopki koje služe za sklanjanje istosmjernih krugova.

Prema normi IEC 60364-7-712 za fotonaponske instalacije, mora se osigurati izoliranje što rastavne sklopke serija PV i CSP, u potpunosti zadovoljavaju.

Sa nazivnim pogonskim strujama do 80A u kategoriji upotrebe DC21B, te nazivnim pogonskim naponom do 1500V DC (1200V DC), ove rastavne sklopke mogu ispuniti sve zahtjeve izolacija.

Rastavne sklopke serija PV i CSP konstruirane su tako da se mogu postaviti između fotonaponskih ćelija i DC/AC pretvarača.

Osim kao standardne izvedbe, mogu se isporučiti s čitavim nizom posebnih izvedbi (na upit).

The development of renewable energy sources on the basis of photovoltaic panels has resulted with the development of switch-disconnectors which are used for switching off DC circuit.

Switch-disconnectors series PV and CSP completely fulfil requirements for isolation according to IEC 60364-7-712 for photovoltaic installations.

PV and CSP series of switch-disconnectors can meet all requirements of installation with rated operational voltage up to 1500V DC (1200V DC) and operational currents up to 80A in utilization category DC21B. Switch-disconnectors are designed to be placed between photovoltaic cells and DC/AC inverter.

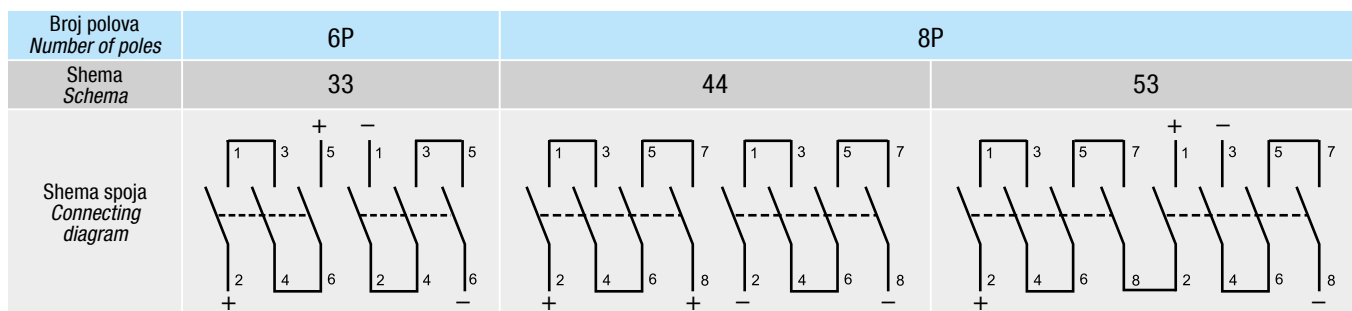
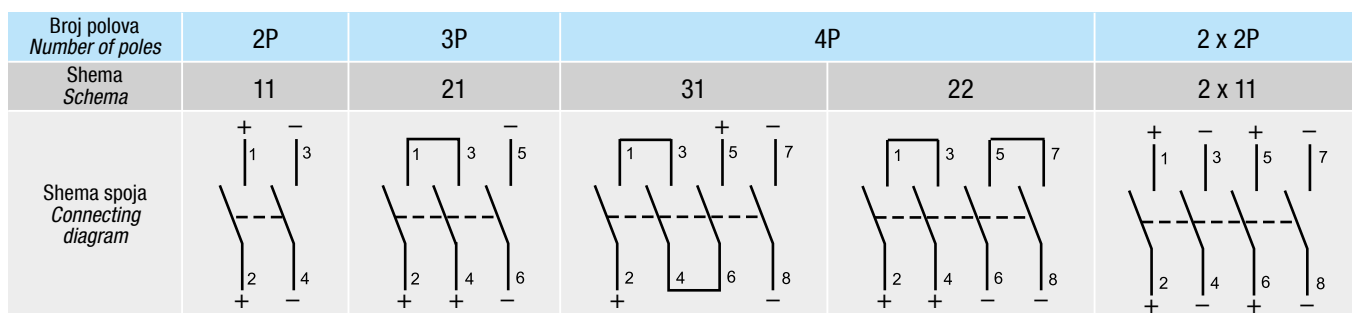
Besides the standard mounting forms, they are available with a large number of optional extras (on request).

TEHNIČKE KARAKTERISTIKE TECHNICAL DATA				PV25	PV32	PV40	CSP80	
Nazivni izolacijski napon Rated insulation voltage	U_i	IEC/EN 60947 UL 508i	V	1000 (1500*) 600	1000 (1500*) 600	1000 (1500*) 600	1200 -	
Nazivni udarni podnosivi napon Rated impulse withstand voltage	U_{imp}	IEC/EN 60947	kV	8	8	8	8	
Nazivna termička struja Rated thermal current	I_{th}	IEC/EN 60947 UL 508i	A	25 25	32 32	40 40	80 -	
Nazivna kratkotrajno podnosiva struja Rated short-time withstand current	I_{cw}	IEC/EN 60947	1 sec A	500	500	500	-	
Nazivna pogonska struja Rated operational current								
			300 V 400 V 600 V 800 V 1000 V 1200 V 1500 V	A A A A A A A	25/2p 25/2p 25/2p 25/2p 16/2p; 25/3p 20/4p 20/4p	32/2p 32/2p 32/2p 32/3p 32/3p 25/4p 20/4p	40/2p 40/2p 40/3p 40/3p 40/4p 32/4p 25/4p	50/3p; 80/4p** 63/4p; 80/6p 45/6p; 65/8p 45/6p; 50/8p*** - - -
Mehanička trajnost Mechanical durability			Broj uklopa Switching cycles	$1,5 \times 10^4$	$1,5 \times 10^4$	$1,5 \times 10^4$	$1,5 \times 10^4$	
Stupanj mehaničke zaštite IP Rating		S prednje strane / Front protection Sa stražnje strane / Rear protection		IP65 IP20	IP65 IP20	IP65 IP20	IP65 IP00	
Priključni vijak Terminal screw			M	4	4	4	4	
Moment pritezanja priključnog vijka Terminal tightening torque		(IEC/EN)	Nm	1,2	1,2	1,2	1,2	
Presjek vodiča Conductor size		max. r/f	$2 \times \frac{mm^2}{AWG}$	10/6 8/10	10/6 8/10	10/6 8/10	25/16 4/6	
r = kruti, višezilni / rigid f = finožičani / flexible		min. r/f	$2 \times \frac{mm^2}{AWG}$	1,5/1,5 16/16	1,5/1,5 16/16	1,5/1,5 16/16	1,5/1,5 16/16	

*stupanj zagađenja 2 / pollution degree 2

**pri 220 V DC / at 220 V DC

***pri 750 V DC / at 750 V DC

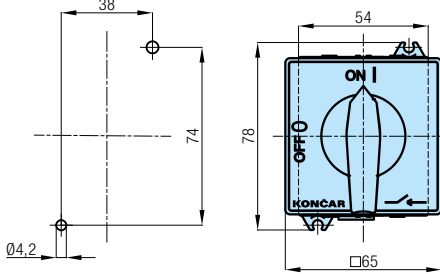


MJERNE SKICE DIMENSIONAL DRAWINGS (mm)

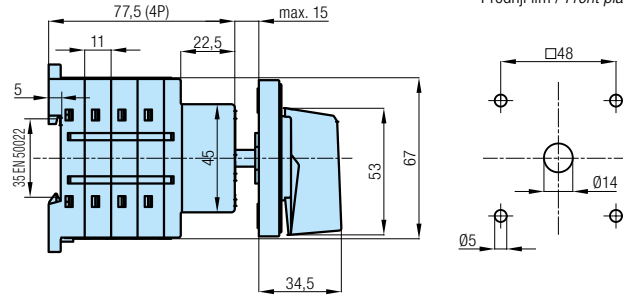
0 - Rastavna sklopka za odvojenu ugradnju Rear mounting

Seriya PV Series PV

Plan bušenja / Drilling plan
Stražnji lim / Rear plate

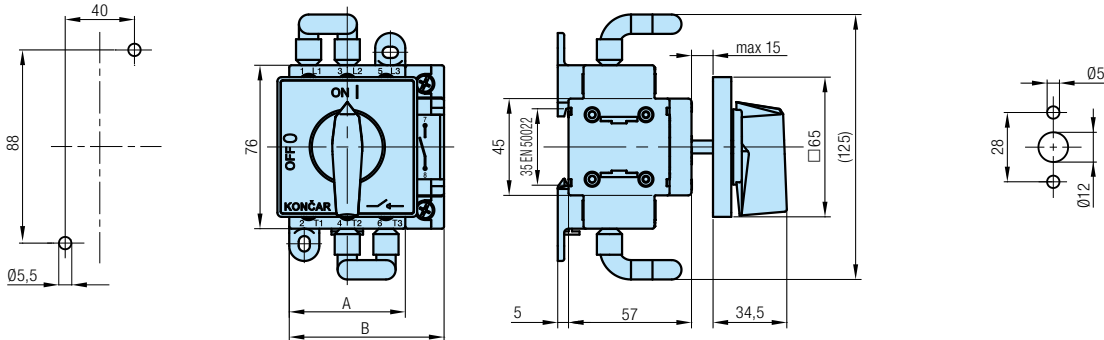


Plan bušenja / Drilling plan
Prednji lim / Front plate



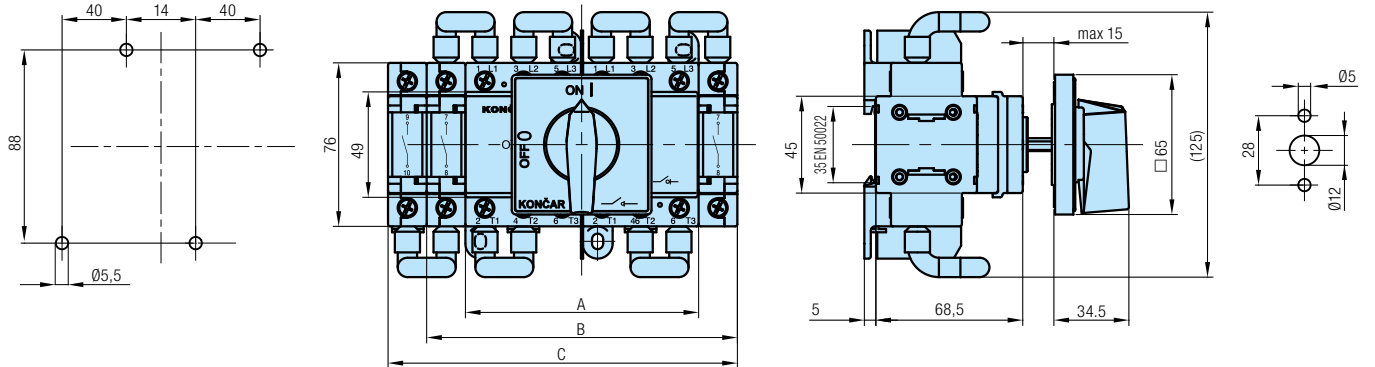
Seriya CSP Series CSP

Sheme spajanja 21, 22, 31 / Connection diagrams 21, 22, 31



Shema Conn. diag.	A	B	C
21	54	-	-
22	-	72	-
31	-	72	-
33	108,5	-	-
44	-	144,5	-
53	-	-	162,5

Sheme spajanja 33, 44, 53 / Connection diagrams 33, 44, 53



PV40-21-0

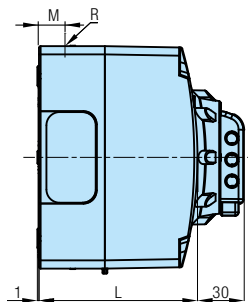
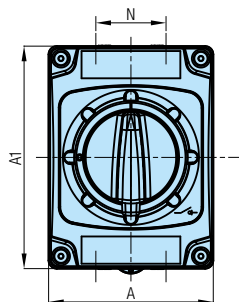
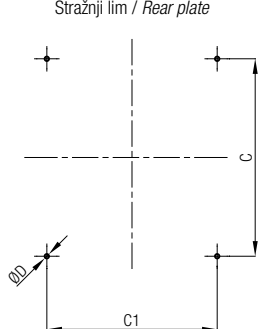


CSP80-53-153

P - Rastavna sklopka u plastičnom kućištu *Switch-disconnector in plastic enclosure*

Seriya PV *Series PV*

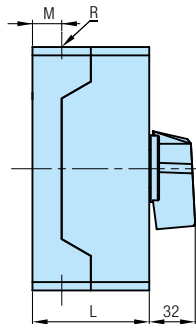
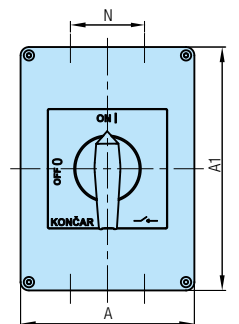
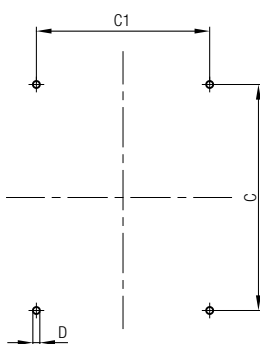
Plan bušenja / *Drilling plan*
Stražnji lim / *Rear plate*



Veličina kućišta <i>Enclosure size</i>	Broj polova <i>Number of poles</i>	A	A1	C	C1	D	L	M	N	Zaštita <i>Protection</i>	Uvodnice <i>Conduit entries</i>
135x100	2 - 3	100	135	98,5	85	5,5	95	20,5	32	IP65	4 x M20
175x130	4	130	175	135,5	115	5,5	115	23	40	IP65	4 x M20/M25

Seriya CSP *Series CSP*

Plan bušenja / *Drilling plan*
Stražnji lim / *Rear plate*



Tip <i>Type</i>	Tip Kućišta <i>Enclosure size</i>	A	A1	C	C1	D	L	M	N	Zaštita <i>Protection</i>	R(Pg)	Uvodnice <i>Conduit entries</i>	R(M...x 1,5)
CSP80-21 CSP80-22 CSP80-31	125 x 175	125	175	146	112	5,5	84	21	68	IP65	4 x Pg21 + 2 x Pg11	ili / or	4 x M25 + 2 x M16
CSP80-33	140 x 210	149	218	111,5	200,5	5,5	146,5	31,5	69	IP65	8 x Pg(16-29) + 4 x Pg11	ili / or	8 x M(20-32) + 4 x M16
CSP80-44 CSP80-53	210 x 210	218	218	200	180	5,5	146,5	31,5	109	IP65	12 x Pg(16 - 29)	ili / or	12 x M(20 - 32)

POTVRDE *APPROVALS*

	KEMA EUR	RU	UL C US
PV25	■	■	■
PV32	■	■	■
PV40	■	■	■
CSP80			



PV40-21-0102

NARUDŽBENI KOD *ORDERING CODE*

Primjer narudžbenog koda za rastavnu sklopku PV40, odvojena ugradnja, shema 21, specijalna izvedba 102:

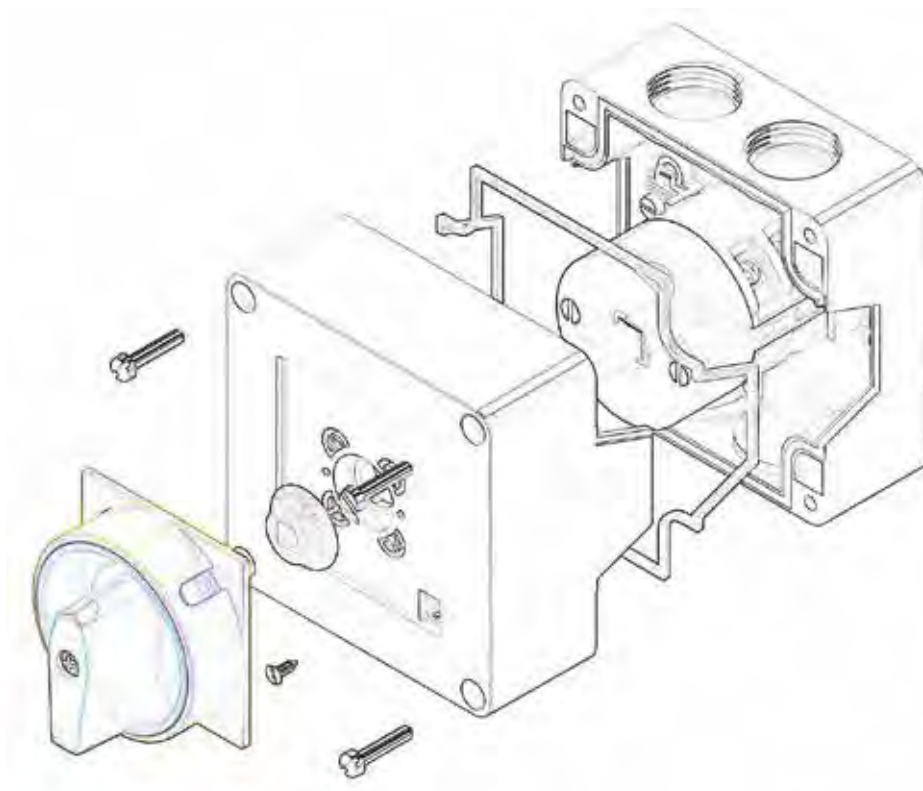
PV40-21-0102

Ordering code example for switch-disconnector PV40, rear mounting, scheme 21, optional extra 102:

PV40-21-0102

Tehničke informacije

*Technical
information*



TEHNIČKE INFORMACIJE *TECHNICAL INFORMATION*

STUPANJ MEHANIČKE ZAŠTITE *IP RATING*

Zaštita od nečistoća i dodira (prva brojka) <i>Protection against dirt nad touching (first digit)</i>			Zaštita od vode (druga brojka) <i>Protection against water (second digit)</i>								
Osoba od dodira s ožiljivima pod naponom <i>Person protection against touching</i>	Električnih uređaja od prodora stranih tijela <i>Electrical devices protection against touching</i>	Brojka <i>Number</i>	<div style="display: flex; justify-content: space-between; font-size: 8px;"> bez zaštite <i>no protection</i> vertikalnog kapanja <i>against vertically falling drops of water</i> vertikalnog kapanja s dopuštenim nagibom kućišta od 15° <i>prema vodoravnom podlozi dripping water, when enclosure tilted up to 15°</i> prskanja s dopuštenim otklonom od 60° vertikalne <i>against direct sprays of water up to 60° from the vertical</i> štrcanja iz svih smjerova <i>against water splashed from all directions</i> od štrcanja u mlazu iz svih smjerova <i>against low pressure jets of water from all directions</i> zapljuskivanja morskim vodom i jakih mlazova <i>against strong jets of water e.g. on ships deck</i> prodora vode u uređaj urojen između 15 cm i 1 m ispod površine u trajanju od 30 min <i>between 15 cm and 1 m, duration of test 30 min</i> uređaj je sposoban za trajni rad pod vodom pod jednakim uvjetima koje je odredio proizvođač <i>protected against long periods of immersion under pressure</i> </div>								
			0	1	2	3	4	5	6	7	8
Bez zaštite <i>No protection</i>		0	IP00	–	IP02	–	–	–	–	–	–
Rukom <i>Hand</i>	>50mm	1	IP10	IP11	IP12	IP13	–	IP15	–	–	–
Prstima <i>Fingers</i>	>12mm	2	IP20	IP21	IP22	IP23	–	–	–	–	–
Alatima <i>Tool</i>	>2.5mm	3	IP30	IP31	IP32	IP33	IP34	–	–	–	–
Žicom <i>Wire</i>	>1mm	4	IP40	IP41	IP42	IP43	IP44	–	–	–	–
Potpuna <i>Complete</i>	Zaštita od taloženja prašine u unutrašnjost <i>Protected against dust limited ingress</i>	5	IP50	–	–	–	IP54	IP55	IP56	–	–
Potpuna <i>Complete</i>	Ni prašina ne ulazi <i>Totally protected against dust</i>	6	IP60	–	–	–	–	IP65	IP66	IP67	IP68

KABELSKE UVODNICE *CABLE GLANDS*

Pg	9	11	13,5	16	21	29	36	42	48
Vanjski promjer kabela / žice od-do <i>Outside diameter of cables / lines from-to</i>	[mm] 4,5 - 7	6 - 9	9 - 12	11 - 14	14 - 18	18 - 25	25 - 32	30 - 38	34 - 42
M...x 1,5	12	16	20	25	32	40	50	63	
Vanjski promjer kabela / žice od-do <i>Outside diameter of cables / lines from-to</i>	[mm] 3 - 6,5	5 - 10	6 - 12	11 - 16	15 - 20	19 - 27	26 - 34	32 - 44	

VANJSKI PROMJERI KABELA *OUTSIDE DIAMETER OF CABLES*

Broj žila i presjek <i>Number cores and cross-section</i>	Približni vanjski promjer <i>Approximate outside diameter</i>				Broj žila i presjek <i>Number cores and cross-section</i>	Približni vanjski promjer <i>Approximate outside diameter</i>			
	NYM	NYV	NYVY	H07RN-F		NYM	NYV	NYVY	H07RN-F
mm ²	mm	mm	mm	mm	mm ²	mm	mm	mm	mm
3 x 1,05	10	11	13	12,5	4 x 50	-	35	34	48
3 x 2,5	11	13	14	14,5	4 x 70	-	40	37	54
3 x 4	12,5	15	16	16	4 x 95	-	45	42	60
3 x 6	14	16	17	20	4 x 120	-	50	47	65,5
3 x 10	17	19	18	25,5	4 x 150	-	53	52	-
3 x 16	20	21	21	29	4 x 185	-	60	60	-
4 x 1,5	10,5	13	14	13,5	5 x 240	-	71	70	-
4 x 2,5	12	14	15	15,5	5 x 1,5	11	13,5	15	15
4 x 4	14	16	17	18	5 x 2,5	13	16,5	17	17
4 x 6	15	17	18	22	5 x 4	15	19	18	19
4 x 10	18	20	20	23	5 x 6	18	19	20	24
4 x 16	23	23	23	32	5 x 10	20	21	-	30
4 x 25	27,5	27	28	37	5 x 16	24	23	-	35
4 x 35	31	30	29	42	5 x 25	31	-	-	41

NYM - PVC-om izoliran i oplašten instalacijski kabel / *Light PVC-sheathed cable*
 NYV - Kabel s PVC omotačem / *Cable with PVC sheath*

NYVY - Kabel s koncentričnim vodičima i PVC omotačem / *Cable with concentric conductor and PVC sheath*
 H07RN-F - Fleksibilni gumom izolirani kabel za srednje jaka mehanička opterećenja / *Rubber insulated flexible cable for medium mechanical loading*

TEHNIČKE INFORMACIJE *TECHNICAL INFORMATION*

PREPORUČLJIVE VRIJEDNOSTI ZA TROFAZNE KAVEZNE MOTORE SA 1500 o/min PRI 50 Hz

RECOMMENDED VALUES FOR THREE-PHASE SQUIRREL-CAGE MOTORS WITH 1500 rpm AT 50 Hz

Snaga motora <i>Motor power</i>			220 V - 230 V			380 V / 400 V			500 V			660 V / 690 V						
			Nazivna struja motora <i>Rated motor power</i>		Osigurač za pokretanje <i>Fuse for startup</i>		Nazivna struja motora <i>Rated motor power</i>		Osigurač za pokretanje <i>Fuse for startup</i>		Nazivna struja motora <i>Rated motor power</i>		Osigurač za pokretanje <i>Fuse for startup</i>		Nazivna struja motora <i>Rated motor power</i>		Osigurač za pokretanje <i>Fuse for startup</i>	
			kW	cosφ	η%	A	direk./direc.	Y/Δ	A	direk./direc.	Y/Δ	A	direk./direc.	Y/Δ	A	direk./direc.	Y/Δ	A
0,25	0,69	68	1,4	4	2	0,8	2	2	0,6	2	2	0,5	2	2				
0,37	0,71	72	1,9	4	2	1,1	4	2	0,8	2	2	0,6	2	2				
0,55	0,75	74	2,6	6	4	1,5	4	2	1,2	4	2	0,9	2	2				
0,75	0,77	75	3,5	6	4	2	4	2	1,5	4	4	1,1	4	2				
1,1	0,8	77	4,7	10	6	2,7	6	4	2,1	6	4	1,6	4	2				
1,5	0,8	79	6,2	16	10	3,6	10	4	2,8	6	4	2,1	6	4				
2,2	0,81	81	8,8	20	16	5,1	10	6	3,9	10	6	2,9	6	4				
3	0,82	83	11,6	25	16	6,7	16	10	5,1	10	10	3,9	10	6				
4	0,83	84,5	15	25	20	8,7	20	16	6,6	16	10	5	10	6				
5,5	0,84	86	20	35	25	11,6	25	20	8,8	20	16	6,7	16	10				
7,5	0,85	87	26,6	50	35	15,4	35	25	11,7	25	20	8,9	16	10				
11	0,85	88	39	63	50	22,4	35	35	17	35	25	12,9	25	16				
15	0,86	89	51,5	80	63	29,8	50	35	22,8	35	35	17,1	35	20				
18,5	90	90	63	100	80	36,5	63	50	27,8	50	35	21	35	25				
22	90,5	90,5	75	100	80	43	63	50	32,8	63	50	25	50	35				
30	90,5	90,5	99	125	100	57	80	83	43,5	63	50	33	50	35				
37	92,5	92,5	121	160	160	70	100	80	53	80	63	40	63	50				
45	92,5	92,5	147	200	200	85	125	100	80	100	80	49	63	63				
55	92,5	92,5	180	250	200	104	160	125	79	125	100	60	100	80				
75	92	92	242	315	250	140	200	160	107	160	125	81	125	100				
90	92,5	92,5	-	-	-	167	200	200	127	200	160	97	160	100				
110	93	93	-	-	-	205	250	250	156	200	200	118	160	125				
132	93,5	93,5	-	-	-	245	315	250	187	250	200	140	200	160				

KATEGORIJE UPOTREBE *UTILIZATION CATEGORIES*

Kategorija upotrebe <i>Utilization category</i>	Tipična primjena <i>Typical application</i>
AC-1	Neinduktivni ili malo induktivni tereti, otporničke peći <i>Non-inductive or weakly inductive loads, resistance furnaces</i>
AC-2	Kolutni motori, pokretanje, reverziranje <i>Sliprings motors, startup, reversing</i>
AC-3	Kavezni motori, pokretanje, isklapanje u vrtnji <i>Squirrel-cage motors, startup, shut-down</i>
AC-4	Kavezni motori, pokretanje, reverziranje, impulsno pokretanje <i>Squirrel-cage motors, startup, reversing, inching</i>
AC-15	Upravljanje elektromagnetskim teretom pri izmjeničnom naponu <i>Control, electromagnetic loads with alternating-current voltage</i>
AC-20	Zatvaranje i otvaranje neopterećenih strujnih krugova <i>Switch-on and switch-off at no load</i>
AC-21	Uklapanje i prekidanje djelatnih opterećenja i umjerenih preopterećenja <i>Switching ohmic loads including moderate overload</i>
AC-22	Uklapanje i prekidanje kombiniranih djelatnih i induktivnih opterećenja, umjerenih preopterećenja <i>Switching mixed ohmic and inductive loads including moderate overload</i>
AC-23	Uklapanje i prekidanje struja motora ili drugih jako induktivnih opterećenja <i>Switching motor loads or other heavily loads</i>
DC-21	Uklapanje i prekidanje djelatnih opterećenja i umjerenih preopterećenja <i>Switching of resistive loads, including moderate overloads</i>
DC-23	Uklapanje i prekidanje induktivnih opterećenja <i>Switching of highly inductive loads</i>

Sklopka

Switch

Sklopka je mehanički sklopni aparat koji može uklapati, voditi i prekidati struju normalnog pogona (pod kojima se podrazumijevaju eventualno i određeni uvjeti preopterećenja) i u određenom vremenu podnositi struje nenormalnog pogona, kao što su struje kratkog spoja. Sklopka može uklapati, ali ne i prekidati struje kratkog spoja.

Switch is a mechanical switching device capable of making, carrying and breaking currents under normal circuit conditions which may include specified operating overload conditions and also carrying for a specified time currents under specified abnormal circuit conditions such as those of short circuit.

Rastavna sklopka

Switch - disconnector

Rastavna sklopka je mehanički sklopni aparat koji može uklapati, voditi i prekidati struju normalnog pogona te preopterećenja. U isklapljenom položaju kontakti moraju zadovoljiti izolacijske zahtjeve određene za rastavljač.

Switch disconnector is mechanically operated switch in a circuit which is able to make, carry and break under normal operating conditions. In the open position the contacts fulfil the requirements of a disconnector.

Kompaktna rastavna sklopka

Compact switch - disconnector

Kompaktna rastavna sklopka je u osnovi rastavna sklopka izuzetno kompaktne konstrukcije.

Compact switch - disconnector is basically a switch - disconnector compact design.

Preklopka

Changeover switch

Preklopka je sklopni aparat koji služi za preklapanje dva nezavisna potrošača ili preklapanje dva nezavisna sustava napajanja prema jednom potrošaču.

Tipični primjer za to je preklopka Mreža - Generator koja isklapa glavni sustav napajanja (mrežu) a zatim uklapa generatorski sustav.

Changeover switch is the switching device which is applicable to connect one source with two independent consumers or to connect two independent sources with one consumer. A typical representative of the second category is the „Net-0-Generator“ switch, which is at first disconnecting the main power supply in case of power breakdown safely from the internal net and then switching over to an independent external power generator.

Sklopka za nužni isklap

Emergency stop switch

Sklopka za nužni isklap je sklopka koja mora imati crvenu ručicu i žutu podlogu. Ovakva sklopka mora osigurati pozitivno otvaranje kontakata.

The emergency stop switch is the switch that must have red handle and yellow escutcheon plate. The switching contacts must be positively driven.

Glavna sklopka

Main switch

U skladu s IEC/EN 60204-1 glavna sklopka osigurava sigurnost električnih uređaja i strojeva.

Ručno upravljane glavne sklopke sposobne su za uklapanje i isklapanje glavnih strujnih krugova.

Rastavne sklopke moraju zadovoljiti kategoriju upotrebe AC23 i sljedeće zahtjeve:

- rastavljanje potrošača od glavnog napajanja što se prikazuje jasnim položajem ručice u isklapljenom položaju. U slučaju da aparat ima okidač, okinuta pozicija mora biti jasno prikazana
- isklapljeni položaj mora jasno označavati da su glavni kontakti u otvorenom položaju. U slučaju da se glavna sklopka ne koristi kao sklopka za sklapanje u slučaju nužde, označava se crnom bojom. Mora biti sposobna za zaključavanje u isklapljenom položaju
- svi vodovi koji mogu doći pod napon moraju biti odvojeni od glavnog kruga
- prekidna moć mora biti takva da je sklopka sposobna isklapati struju najvećeg zakočenog motora i zbroj svih ostalih pogonskih struja, s time da se ne smije prijeći vrijednost nazivne termičke struje.

Kada se glavna sklopka koristi kao sklopka za nužno isklapanje, mora imati crvenu ručicu i žutu podlogu.

According to IEC/EN 60204-1 main switch provides safety and electrical equipment of machinery.

A manually operated main switch has to be provided for every mains supply.

As switch-disconnector it must comply with utilization category AC23 and fulfil the following requirements:

- *disconnecting the electric device of the mains, showing a single ON and OFF position each only, clearly marked*
- *visible isolating distance or position indicator showing the OFF position only in case all contacts are opened in fact and a sufficient clearance according to the normatives is achieved. In case the main switch is not used as an emergency-off switch at the same time, red is excluded as its handle colour. Than black is recommended colour. It has to be lockable in OFF-Position*
- *all active conductors have to be disconnected of the mains*
- *the rated breaking capacity has to be sufficient to break the current of the biggest motor in blocked state together with the sum of all operational currents of all other motors/consumers. However, the admitted rated thermal current has not to be exceeded.*

When the main switch is used as an emergency stop switch, it must have a red handle and yellow escutcheon plate.

Nazivna trajna struja $I_u(I_n)$ ***Rated uninterrupted current $I_u(I_n)$***

Nazivna trajna struja je efektivna vrijednost struje, definirana od strane proizvođača, koju sklopni aparat mora moći trajno voditi pod točno specificiranim uvjetima.

The rated uninterrupted current of an equipment is a value of current, stated by the manufacturer, which the equipment can carry in uninterrupted duty.

Nazivna termička struja I_{th} ***Conventional free air thermal current I_{th}***

Nazivna termička struja je najveća vrijednost struje koju uređaj može voditi u trajanju od 8 sati, a da zagrijavanje pojedinih dijelova ne prijeđe granice navedene u normi IEC 60947.

The conventional free air thermal current is the maximum value of test current to be used for temperature-rise tests of unenclosed equipment in free air. The value of the conventional free air thermal current shall be at least equal to the maximum value of the rated operational current (refer to IEC 60947) of the unenclosed equipment in eight-hour duty.

Nazivna pogonska struja I_e ***Rated operational current I_e***

Nazivna pogonska struja je struja koju uređaj može trajno voditi s obzirom na nazivni pogonski napon, nazivnu frekvenciju, kategoriju upotrebe i temperaturu okoline.

A rated operational current of an equipment is stated by the manufacturer and takes into account the rated operational voltage, the rated frequency, the rated duty and utilization category.

Nazivni pogonski napon U_e ***Rated operational voltage U_e***

Nazivni pogonski napon je napon koji označava gornju granicu najvišeg linijskog napona za koji je uređaj namijenjen. Zajedno sa nazivnom pogonskom strujom određuje primjenu uređaja kao i kategoriju upotrebe.

A rated operational voltage of an equipment is a value of voltage which, combined with a rated operational current, determines the application of the equipment and to which the relevant tests and the utilization categories are referred.

Nazivni udarni podnosivi napon U_{imp} ***Rated impulse withstand voltage U_{imp}***

Nazivni udarni podnosivi napon je vršna vrijednost udarnog napona koju oprema podnosi bez greške pod određenim ispitnim uvjetima i čijom vrijednošću su definirani izolacijski razmaci.

The peak value of an impulse voltage of prescribed form and polarity which the equipment is capable of withstanding without failure under specified conditions of test and to which the values of the clearances are referred.

Nazivni izolacijski napon U_i ***Rated insulation voltage U_i***

Nazivni izolacijski napon je vrijednost napona na koji se odnose dielektrična ispitivanja, izolacijski razmaci i klizne staze. Maksimalna vrijednost nazivnog pogonskog napona ne smije biti veća od nazivnog izolacijskog napona. Za opremu koja nema definirani izolacijski napon, uzima se da je nazivni izolacijski napon jednak najvišoj vrijednosti nazivnog pogonskog napona opreme.

The rated insulation voltage of an equipment is the value of voltage to which dielectric tests and creepage distances are referred. In no case shall the maximum value of the rated operational voltage exceed that of the rated insulation voltage. For equipment not having a specified rated insulation voltage, the highest value of the rated operational voltage is considered to be the rated insulation voltage.

Nazivni kratkotrajno podnosiva struja I_{cw} ***Rated short time withstand current I_{cw}***

Nazivna kratkotrajno podnosiva struja je efektivna vrijednost struje koju sklopni aparat može voditi u zatvorenom položaju točno propisano vrijeme i pod točno propisanim uvjetima upotrebe (nazivni pogonski napon, nazivna pogonska struja).

The rated short-time withstand current of an equipment is the value of short-time withstand current, assigned to the equipment by the manufacturer, that the equipment can carry without damage, under the test conditions specified in the relevant product standard.

Stupanj mehaničke zaštite IP *IP Rating*

Ovisno o primjeni sklopnih aparata u različitim uvjetima okoline, definiraju se različiti stupnjevi mehaničke zaštite označeni sa IP (International Protection ili Ingress Protection). Vidi tablicu na stranici 144.

Relative to suitability for various ambient conditions electrical devices are classified in different degrees of protection, so-called IP-codes (International Protection). See table on page 144.

Pozitivno otvaranje kontakata *Positively driven operation*

U skladu sa IEC/EN 60947-5-1 pozitivno otvaranje kontakata garantira da će glavni kontakti biti potpuno otvoreni kada je ručica (izvršni član) u isklupljenom položaju.

According to IEC/EN 60947-5-1 positively driven contacts must guarantee, that the contacts are completely opened when the handle (switch actuator) is in OFF position.

Pomoćni kontakti tipa NO (normal open) **- uklopni kontakti** *Auxiliary contacts type NO*

Označavaju pomoćne kontakte koji su u istom položaju kao i glavni kontakti uređaja (kada su glavni kontakti uređaja u otvorenom položaju i pomoćni kontakti su u otvorenom položaju).

Auxiliary contact which is closed when the main contacts of the mechanical switching device are closed and open when they are opened.

Pomoćni kontakti tipa NC (normal closed) **- isklopni kontakti** *Auxiliary contacts type NC*

Označavaju pomoćne kontakte koji su u suprotnom položaju od glavnih kontakata uređaja (kada su glavni kontakti uređaja u otvorenom položaju pomoćni kontakti su u zatvorenom položaju).

Auxiliary contact which is opened when the main contacts of the mechanical switching device are closed and closed when they are opened.

■ ROTARY CAM SWITCHES AND SWITCH DISCONNECTORS



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