

Product designation				Enclosed rotary cam switch	
Product type designation				7GN12	
<b>General characteristics</b>					
Switching diagram				10 - ON/OFF switch 3 poles	
N° of elements				2	
Mounting form				P25 - Plastic enclosure with red/yellow handle	
<b>Contact characteristics</b>					
Rated insulation voltage $U_i$	IEC/EN	V	690		
	UL/CSA	V	600		
Rated impulse withstand voltage $U_{imp}$			kV	6	
Conventional free air thermal current $I_{th}$	IEC/EN	A	16		
	UL/CSA	A	15		
Rated operational voltage			V	480	
Rated operational impulse voltage			kV	4	
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	16		
	15kA	A	10		
	25kA	A	10		
Rated short time current $I_{cw}$			1s	A	
				200	
Conductivity				10/5 mA/V	
Operational current $I_e$ IEC/EN	AC1/AC21A		A	16	
	AC15				
		110V	A	10	
		220/230V	A	8	
		380/400V	A	4	
		660/690V	A	1.5	
Rated operational power in AC	Three-phase AC-3				
			220/230V	kW	2.5
			380/440V	kW	4
			500/690V	kW	5.5
	Single-phase AC-3				
			110V	kW	0.8
			220/230V	kW	1.5
			380/440V	kW	2.2
	Three-phase AC23A				
			220/230V	kW	3
			380/440V	kW	5.5
			500/690V	kW	7.5
Single-phase AC23A					
		110V	kW	0.8	
		220/230V	kW	1.7	
		380/440V	kW	3	
Rated operational current in DC					

DC21A	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
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DC23A (poles in series)	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
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DC13	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
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Power dissipation		W	0.8

**Mechanical features**

Terminals screw M3

Tightening torque for terminals max Nm 0.5

Conductor size

AWG - Rigid cable	min	AWG	20
	Max	AWG	12

AWG - Flexible cable	min	AWG	20
	Max	AWG	14

Conductor size (IEC) - Flexible cable	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5

Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5

Mechanical life cycles 3x10<sup>6</sup>

**UL technical data**

Motor power for direct-on-line control for three-phase motor	120V	HP	1.5
	240V	HP	3

for single-phase motor	120V	HP	0.5
	240V	HP	1

**Ambient conditions**

Temperature

Operating temperature	min	°C	-25
	max	°C	+55

Storage temperature	min	°C	-40
	max	°C	+70

**Resistance & Protection**

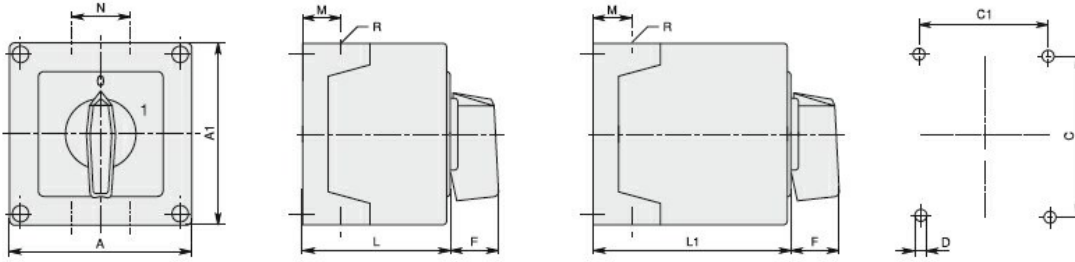
Frontal IP degree

IP65

Terminals IP degree

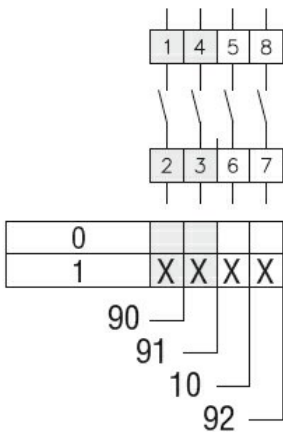
IP00

**Dimensions**



Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12	75x75	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20		1-2	3-4												
7GN25		1	2-3												
7GN12	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20		1-3	4-6												
7GN25		1-2	3-4												
7GN32		1-2	3-4												
7GN40		1	2-3												
7GN12	110x110	1-4	5-8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1-4	5-8												
7GN25		1-3	4-5												
7GN32		1-3	4-5												
7GN40		1-2	3-5												
7GN63		1-2	3-4												
7GN32	125x175	1-3	4-5	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40		1-2	3-4												
7GN63		1-2	3-4												
7GN125		1	2												
7GN32	180x254	1-5	6-8	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65
7GN40		1-4	5-7												
7GN63		1-3	4-6												
7GN125		1-2	3-4												

**Wiring diagrams**



**Certifications and compliance**

Compliance

- IEC/EN/BS 60947-1
- IEC/EN/BS 60947-3
- IEC/EN/BS 60947-5-1

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete