

### General characteristics

Switching diagram	110 - Multi-step 0-1-2-3-4-5 1 pole
N° of elements	3
Mounting form	P - Plastic enclosure with black handle

### Contact characteristics

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	40	
	UL/CSA	A	50	
Rated operational voltage		V	480	
Rated operational impulse voltage		kV	4	
Maximum fuse size for short-circuit protection $I_n$ (gG)	10kA	A	40	
	15kA	A	40	
	25kA	A	40	
	50kA	A	40	
	63kA	A	40	
Rated short time current $I_{cw}$	1s	kA	1000	
			10/5 mA/V	
Conductivity			10/5 mA/V	
Operational current $I_e$ IEC/EN	AC1/AC21A	A	40	
	AC15			
	110V	A	25	
	220/230V	A	22	
	380/400V	A	12	
	660/690V	A	2	
Rated operational power in AC	Three-phase AC-3	220/230V	kW	8
		380/440V	kW	15
		500/690V	kW	15
	Single-phase AC-3	110V	kW	3
		220/230V	kW	6.5
		380/440V	kW	8
	Three-phase AC23A	220/230V	kW	8
		380/440V	kW	18.5
		500/690V	kW	22
	Single-phase AC23A	110V	kW	3
		220/230V	kW	6
		380/440V	kW	11
Rated operational current in DC				

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2-3-4-5, 1 POLE 40A IN PLASTIC ENCLOSURE 110X110MM WITH BLACK HANDLE

DC21A	48V	A	40
	60V	A	40
	110V	A	6
	220V	A	0.9

DC23A (poles in series)	24V	A	40 (1)
	48V	A	40 (2)
	60V	A	40 (3)
	110V	A	20 (3)
	220V	A	12 (4)

DC13	24V	A	40
	48V	A	32
	60V	A	16
	110V	A	3

Power dissipation	W	2.0
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**Mechanical features**

Terminals screw	M4
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Tightening torque for terminals max	Nm	1.2
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**Conductor size**

AWG - Rigid cable	min	AWG	16
	Max	AWG	8

AWG - Flexible cable	min	AWG	16
	Max	AWG	10

Conductor size (IEC) - Flexible cable	min	mm <sup>2</sup>	1.5
	Max	mm <sup>2</sup>	6

Conductor size (IEC) - Rigid cable	min	mm <sup>2</sup>	1.5
	Max	mm <sup>2</sup>	10

Mechanical life	cycles	5x10 <sup>6</sup>
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**UL technical data**

Motor power for direct-on-line control for three-phase motor	120V	HP	5
	240V	HP	10
	480V	HP	20
	600V	HP	20

for single-phase motor	120V	HP	2
	240V	HP	5

**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
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Terminals IP degree

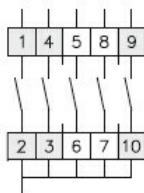
IP00

**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 <sup>Ⓟ</sup>	75x75 <sup>Ⓟ</sup>	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20 <sup>Ⓟ</sup>		1-2	3-4												
7GN25 <sup>Ⓟ</sup>		1	2-3												
7GN12 <sup>Ⓟ</sup>	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20 <sup>Ⓟ</sup>		1-3	4-6												
7GN25 <sup>Ⓟ</sup>		1-2	3-4												
7GN32		1	2-3												
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 <sup>Ⓟ</sup>		1-2	3-5												
7GN40 <sup>Ⓟ</sup>		1-2	3-5												
7GN63		1-2	3-4												
7GN32 <sup>Ⓟ</sup>	125x175	1-2	3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40 <sup>Ⓟ</sup>		1-2	3-4												
7GN63 <sup>Ⓟ</sup>		1-2	3-4												
7GN125		1	2												
7GN32	198x248	-	1-7	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN40		-	1-7												
7GN63 <sup>Ⓟ</sup>		-	1-6												
7GN125 <sup>Ⓟ</sup>		-	1-4												

- Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).
- Ⓟ D Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

**Wiring diagrams**



0				
1	X			
2			X	
3				X
4		X		
5			X	

110 —

**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