

**General characteristics**

Switching diagram	25 - 1-phase motor reversing switch with spring return
N° of elements	2
Mounting form	P25 - Plastic enclosure with red/yellow 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				
Rated operational power in AC	Three-phase AC-3	110V	A	25	
		220/230V	A	22	
		380/400V	A	12	
		660/690V	A	2	
		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**

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

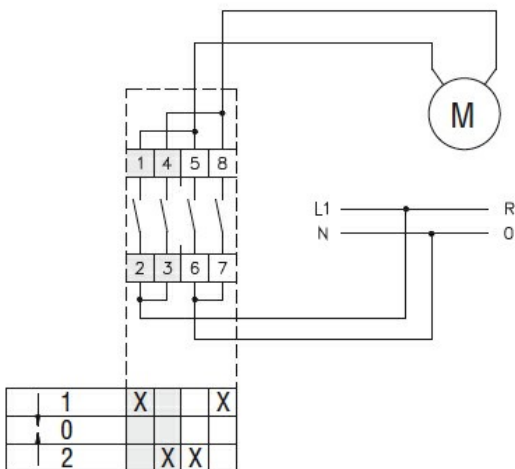
**Dimensions**

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12Ⓟ	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												
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Ⓟ		1-2	3-5												
7GN40Ⓟ		1-2	3-5												
7GN63		1-2	3-4												
7GN32Ⓟ	125x175	1-2	3-4	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	198x248	-	1-7	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN40		-	1-7												
7GN63Ⓟ		-	1-6												
7GN125ⓅⓅ		-	1-4												

Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).

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

**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