

General characteristics

Switching diagram	53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
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	20
	UL/CSA	A	20
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	20
	15kA	A	16
	25kA	A	16
Rated short time current I_{cw}	1s	kA	250
Conductivity			10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		
		A	20
	AC15		
	110V	A	10
	220/230V	A	8
	380/400V	A	6
	660/690V	A	1.5
	Rated operational power in AC		
	Three-phase AC-3		
	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	5.5
	Single-phase AC-3		
	110V	kW	0.8
	220/230V	kW	2.2
	380/440V	kW	3
Three-phase AC23A	Single-phase AC23A		
	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7
	Rated operational current in DC		

DC21A

48V	A	20
60V	A	20
110V	A	4
220V	A	0.6
440V	A	0.25

DC23A (poles in series)

24V	A	20 (1)
48V	A	20 (2)
60V	A	20 (3)
110V	A	10 (3)
220V	A	8 (4)

DC13

24V	A	20
48V	A	16
60V	A	12
110V	A	1
220V	A	0.4
440V	A	0.15

Power dissipation	W	0.8
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Mechanical features

Terminals screw	M3
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Tightening torque for terminals max	Nm	0.5
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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 ²	0.5
Max	mm ²	2.5

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	2.5

Mechanical life	cycles	5x10 ⁶
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UL technical data

Motor power for direct-on-line control

for three-phase motor

120V	HP	1.5
240V	HP	3
480V	HP	7.5
600V	HP	10

for single-phase motor

120V	HP	0.75
240V	HP	2

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
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max °C +70

Resistance & Protection

Frontal IP degree IP65

Terminals IP degree IP00

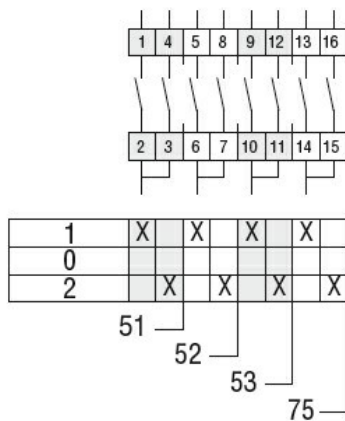
Dimensions

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												
7GN40	110x110	1	2 - 3	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN12		1 - 4	5 - 8												
7GN20		1 - 4	5 - 8												
7GN25		1 - 3	4 - 5												
7GN32Ⓟ		1 - 2	3 - 5												
7GN40Ⓟ		1 - 2	3 - 5												
7GN63	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN32Ⓟ		1 - 2	3 - 4												
7GN40Ⓟ		1 - 2	3 - 4												
7GN63Ⓟ		1	2												
7GN125	198x248	—	1 - 7	198	248	190-210	140-180	5.5	32	35	104	—	166.5	6xPG16- 21-29	IP65
7GN32		—	1 - 7												
7GN40		—	1 - 6												
7GN63Ⓟ		—	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

EC001105 - Off-load switch