

General characteristics

Switching diagram	12 - Star-delta motor starter switch
N° of elements	4
Mounting form	P - Plastic enclosure with black handle

Contact characteristics

Rated insulation voltage Ui	IEC/EN	V	690	
	UL/CSA	V	600	
Rated impulse withstand voltage Uimp		kV	6	
Conventional free air thermal current Ith	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 In (gG)	10kA	A	40	
	15kA	A	40	
	25kA	A	40	
	50kA	A	40	
	63kA	A	40	
Rated short time current Icw	1s	kA	1000	
			10/5 mA/V	
Conductivity				
Operational current Ie 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, STAR-DELTA MOTOR STARTER SWITCH
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

Mechanical features

Terminals screw M4

Tightening torque for terminals max Nm 1.2

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 ²	1.5
Max	mm ²	6

Conductor size (IEC) - Rigid cable

min	mm ²	1.5
Max	mm ²	10

Mechanical life cycles 5x10⁶

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

Terminals IP degree

IP00

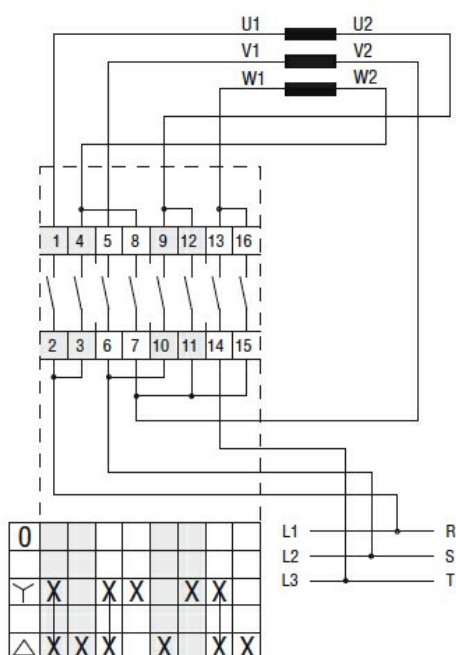
Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12 ^①	75x75 ^②	1 - 2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20 ^①		1 - 2	3 - 4												
7GN25 ^①		1	2 - 3												
7GN12 ^②	90x90	1 - 3	4 - 6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20 ^②		1 - 3	4 - 6												
7GN25 ^②		1 - 2	3 - 4												
7GN32 ^②		1	2 - 3												
7GN40 ^②	110x110	1	2 - 3	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN12 ^②		1 - 4	5 - 8												
7GN20 ^②		1 - 4	5 - 8												
7GN25 ^②		1 - 3	4 - 5												
7GN32 ^②		1 - 2	3 - 5												
7GN40 ^②		1 - 2	3 - 5												
7GN63 ^②	125x175	1 - 2	3 - 4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN32 ^②		1 - 2	3 - 4												
7GN40 ^②		1 - 2	3 - 4												
7GN63 ^②		1 - 2	3 - 4												
7GN125 ^②	198x248	1	2	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN32 ^②		-	1 - 7												
7GN40 ^②		-	1 - 7												
7GN63 ^②		-	1 - 6												
7GN125 ^②		-	1 - 4												

① Standard dimensions for cam switch in plastic enclosure with black handle (P).

② 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