

Product designation	Rotary cam switches	
Product type designation	7GN12	
General characteristics		
Switching diagram	25 - 1-phase motor reversing switch with spring return	
N° of elements	2	
Mounting form	U47 - Snap on front mounting with black handle for hole diam. 22mm fixng	
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 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 kA 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	

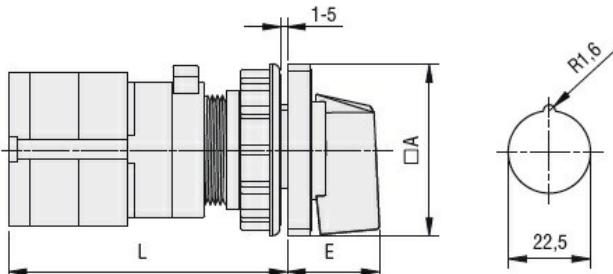
	220/230V	kW	1.7
	380/440V	kW	3
Rated operational current in DC			
DC21A			
	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
DC13			
	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
	440V	A	0.15
Power 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 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	3x10 ⁶
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

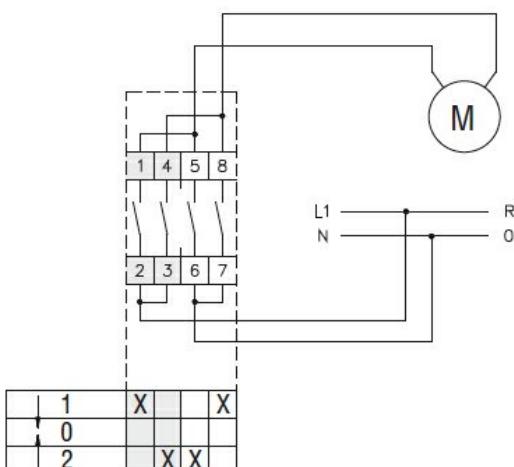
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	Dimensions		L			
	□A	E	1	2	3.....8	
7GN12	48	26.5	58	67.7	77.4	125.9
7GN20	48	26.5	58	67.7	77.4	125.9
7GN25	48	26.5	62.4	76	89.6	157.6

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete