

Product designation				Rotary cam switches
Product type designation				7GN12
General characteristics				
Switching diagram				98 - Ammeter switch
N° of elements				3
Mounting form				U47 - Snap on front mounting with black handle for hole diam. 22mm fixing
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
				10/5 mA/V
Conductivity				10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A			A
	AC15			
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
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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	3x10 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

for single-phase motor

120V	HP	0.5
240V	HP	1

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

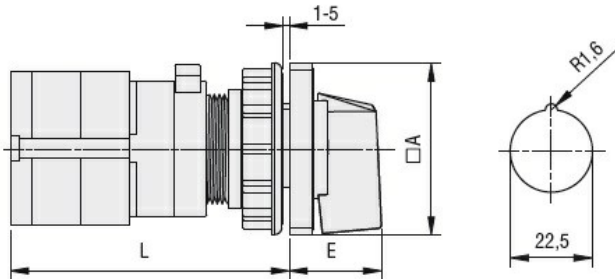
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

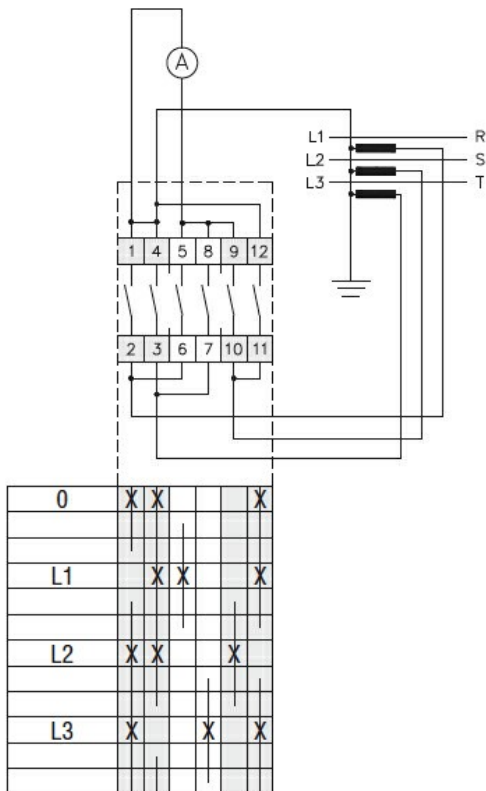
Frontal IP degree	IP40
Terminals IP degree	IP00

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