

Product designation				Rotary cam switches	
Product type designation				7GN12	
General characteristics					
Switching diagram				110 - Multi-step 0-1-2-3-4-5 1 pole	
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	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			

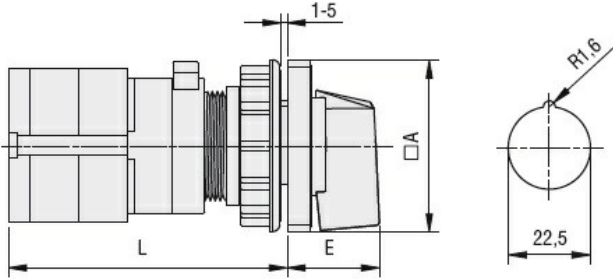
	380/440V	kW	3
Rated operational current in DC			
DC21A	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
DC13	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
	440V	A	0.15
Power dissipation		W	0.8
Mechanical 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

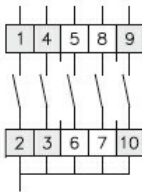
Frontal IP degree	IP40
Terminals IP degree	IP00

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



0					
1	X				
2			X		
3					X
4		X			
5				X	

110

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