

Product designation			Rotary cam switches		
Product type designation			7GN12		
General characteristics					
Switching diagram			85 - Multi-step 1-2-3-4-6 1 pole		
N° of elements			3		
Mounting form			U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing		
Contact characteristics					
Rated insulation voltage Ui			IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp				kV	6
Conventional free air thermal current Ith			IEC/EN UL/CSA	A A	16 15
Rated operational voltage				V	480
Rated operational impulse voltage				kV	4
Maximum fuse size for short-circuit protection In (gG)			10kA 15kA 25kA	A A A	16 10 10
Rated short time current Icw			1s	kA	200
Conductivity			10/5 mA/V		
Operational current Ie IEC/EN					
AC1/AC21A				A	16
AC15			110V 220/230V 380/400V 660/690V	A A A A	10 8 4 1.5
Rated operational power in AC					
Three-phase AC-3			220/230V 380/440V 500/690V	kW kW kW	2.5 4 5.5
Single-phase AC-3			110V 220/230V 380/440V	kW kW kW	0.8 1.5 2.2
Three-phase AC23A			220/230V 380/440V 500/690V	kW kW kW	3 5.5 7.5
Single-phase AC23A			110V 220/230V	kW kW	0.8 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

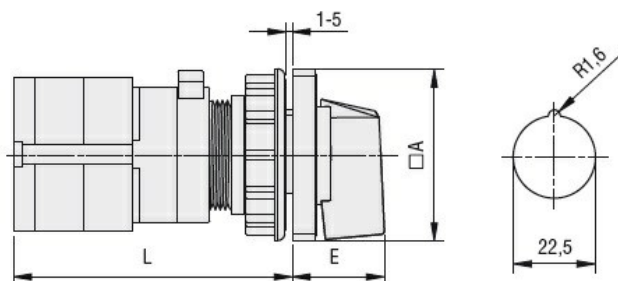
max °C +70

Resistance & Protection

Frontal IP degree IP40

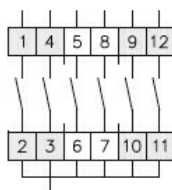
Terminals IP degree IP00

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



1	X				
2			X		
3				X	
4		X			
5			X		
6					X

85

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