

Product designation			Rotary cam switches	
Product type designation			7GN20	
General characteristics				
Switching diagram			108 - Multi-step 0-1-2-3 1 pole	
N° of elements			2	
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 20 20
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 20 16 16
Rated short time current Icw			1s	kA 250
Conductivity			10/5 mA/V	
Operational current Ie IEC/EN				
AC1/AC21A			A	20
AC15			110V 220/230V 380/400V 660/690V	A A A A 10 8 6 1.5
Rated operational power in AC				
Three-phase AC-3			220/230V 380/440V 500/690V	kW kW kW 3 5.5 5.5
Single-phase AC-3			110V 220/230V 380/440V	kW kW kW 0.8 2.2 3
Three-phase AC23A			220/230V 380/440V 500/690V	kW kW kW 5 7.5 7.5
Single-phase AC23A			110V 220/230V	kW kW 0.8 2.5

		380/440V	kW	3.7
Rated operational current in DC				
DC21A				
		48V	A	20
		60V	A	20
		110V	A	4
		220V	A	0.6
		440V	A	0.25
DC23A (poles in series)				
		24V	A	20 (1)
		48V	A	20 (2)
		60V	A	20 (3)
		110V	A	10 (3)
		220V	A	8 (4)
DC13				
		24V	A	20
		48V	A	16
		60V	A	12
		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	5x10 ⁶
UL technical data				
Motor power for direct-on-line control				
for three-phase motor				
		120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
		600V	HP	10
for single-phase motor				
		120V	HP	0.75
		240V	HP	2
Ambient conditions				
Temperature				
Operating temperature				
		min	°C	-25
		max	°C	+55

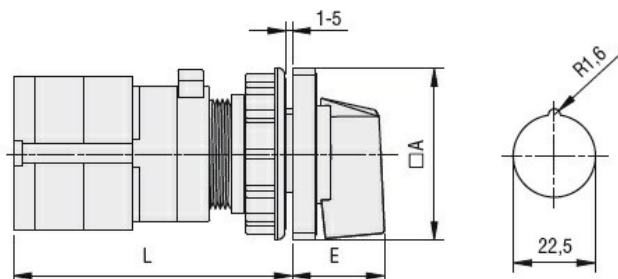
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

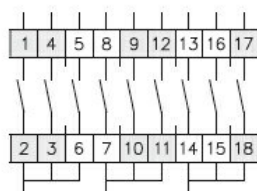
Frontal IP degree	IP40
Terminals IP degree	IP00

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				X		X										
2			X	X												X	
3		X				X		X									

108 — 124 — 136

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