

Product designation	Rotary cam switches
Product type designation	7GN20
General characteristics	
Switching diagram	135 - Multi-step 0-1-2 3 poles
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 V 690 UL/CSA V 600
Rated impulse withstand voltage Uimp	kV 6
Conventional free air thermal current Ith	IEC/EN A 20 UL/CSA A 20
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection In (gG)	10kA A 20 15kA A 16 25kA A 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 A 10 220/230V A 8 380/400V A 6 660/690V A 1.5
Rated operational power in AC	
Three-phase AC-3	220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5
Single-phase AC-3	110V kW 0.8 220/230V kW 2.2 380/440V kW 3
Three-phase AC23A	220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5
Single-phase AC23A	110V kW 0.8 220/230V kW 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

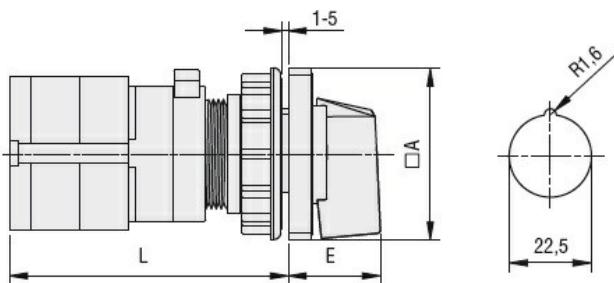
Frontal IP degree

IP40

Terminals IP degree

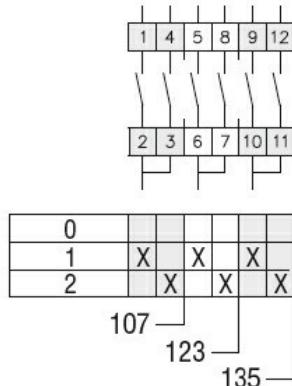
IP00

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



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