

Product designation	Rotary cam switches		
Product type designation	7GN20		
<b>General characteristics</b>			
Switching diagram	94 - Multi-step 1-2-3-4 3 poles		
N° of elements	6		
Mounting form	U47 - Snap on front mounting with black handle for hole diam. 22mm fixing		
<b>Contact characteristics</b>			
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
<b>Mechanical features</b>			
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 <sup>2</sup>	0.5	
Max	mm <sup>2</sup>	2.5	
Conductor size (IEC) - Rigid cable			
min	mm <sup>2</sup>	0.5	
Max	mm <sup>2</sup>	2.5	
Mechanical life		cycles	5x10 <sup>6</sup>
<b>UL technical data</b>			
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	
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
min	°C	-25	
max	°C	+55	

Storage temperature

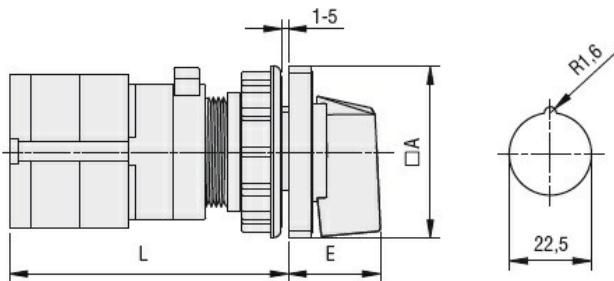
min °C -40  
max °C +70

Resistance & Protection

Frontal IP degree IP40

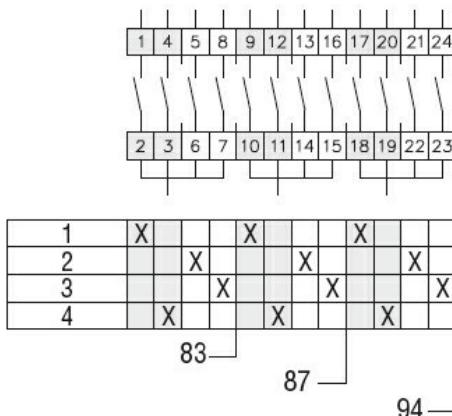
Terminals IP degree IP00

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