

Product designation	Rotary cam switches
Product type designation	7GN12
General characteristics	
Switching diagram	54 - Changeover switch without 0 1 pole
N° of elements	1
Mounting form	U11 - Front mounting with black handle without front plate for hole diam. 22mm fixing
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 16 UL/CSA A 15
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection In (gG)	10kA A 16 15kA A 10 25kA A 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 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
	480V	HP	50
	600V	HP	40
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

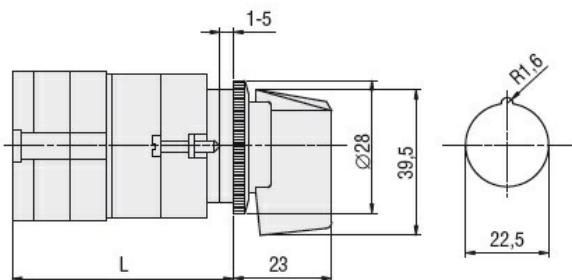
Frontal IP degree

IP40

Terminals IP degree

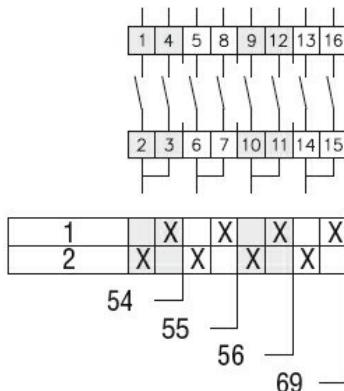
IP00

Dimensions



Series	L			
	1	2	3.....8	
7GN12	47	56.7	66.4	114.9
7GN20	47	56.7	66.4	114.9
7GN25	51.4	65	78.6	146.6

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

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete