



Product designation

Rotary cam switches

Product type designation

7GN12

General characteristics

Switching diagram

03 - ON/OFF spring return switch 3 poles

N° of elements

2

Mounting form

U12 - Front mounting without front plate with key operation for hole diam. 22mm fixing

Contact characteristics

Rated insulation voltage U_i

IEC/EN V 690

UL/CSA V 600

Rated impulse withstand voltage U_{imp}

kV 6

Conventional free air thermal current I_{th}

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 I_n (gG)

10kA A 16

15kA A 10

25kA A 10

Rated short time current I_{cw}

1s A 200

Conductivity

10/5 mA/V

Operational current I_e 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
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Three-phase AC23A	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	7.5
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Single-phase AC23A	110V	kW	0.8
	220/230V	kW	1.7
	380/440V	kW	3
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Rated operational current in DC			
DC21A	48V	A	12
	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
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DC23A (poles in series)	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
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DC13	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
	440V	A	0.15
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Power dissipation		W	0.8
Mechanical features			
Terminals screw			M3
Tightening torque for terminals max		Nm	0.5
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Conductor size			
AWG - Rigid cable	min	AWG	20
	Max	AWG	12
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AWG - Flexible cable	min	AWG	20
	Max	AWG	14
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Conductor size (IEC) - Flexible cable	min	mm ²	0.5
	Max	mm ²	2.5
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Conductor size (IEC) - Rigid cable	min	mm ²	0.5
	Max	mm ²	2.5
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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
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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

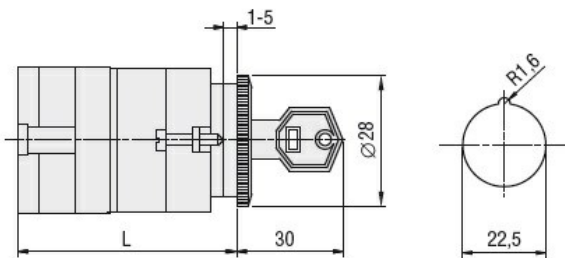
Frontal IP degree

IP40

Terminals IP degree

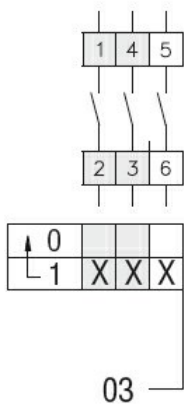
IP00

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

- cCSAus
- EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete