



Product designation

Rotary cam
switches

Product type designation

7GN20

General characteristics

Switching diagram

90 - ON/OFF
switch 1 pole

N° of elements

1

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
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Conventional free air thermal current I_{th}

IEC/EN	A	20
UL/CSA	A	20

Rated operational voltage

V	480
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Rated operational impulse voltage

kV	4
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Maximum fuse size for short-circuit protection I_n (gG)

10kA	A	20
15kA	A	16
25kA	A	16

Rated short time current I_{cw}

1s	kA	250
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Conductivity

10/5 mA/V

Operational current I_e IEC/EN

AC1/AC21A

A	20
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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

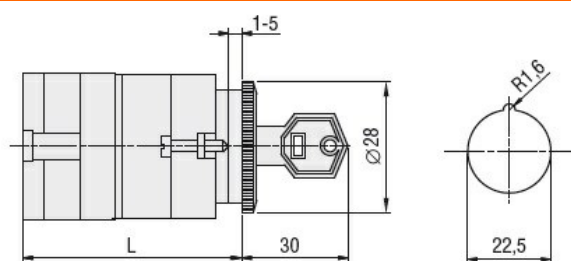
Frontal IP degree

IP40

Terminals IP degree

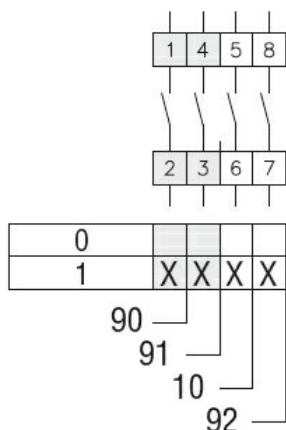
IP00

Dimensions



Series	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

EC001105 - Off-
load switch