

Product designation	Rotary cam switches	
Product type designation	7GN20	
<b>General characteristics</b>		
Switching diagram	26 - 3-phase motor reversing switch with spring return	
N° of elements	3	
Mounting form	O48 - Modular service cover for 35mm din rail mounting with black handle	
<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 le 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 <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>

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
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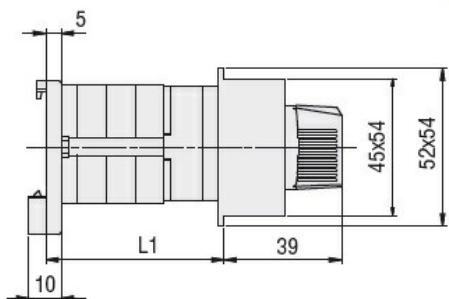
	max	°C	+55
Storage temperature			
	min	°C	-40
	max	°C	+70

### Resistance & Protection

Frontal IP degree IP40

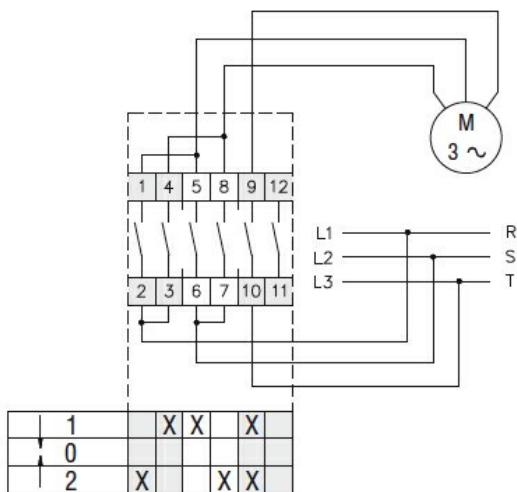
Terminals IP degree IP00

### Dimensions



Series	L1		
	1	2	3
7GN12	38.1	47.8	57.5
7GN20	38.1	47.8	57.5
7GN25	42.5	56.1	69.7

### 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