

Product designation	Rotary cam switches	
Product type designation	7GN20	
General characteristics		
Switching diagram	110 - Multi-step 0-1-2-3-4-5 1 pole	
N° of elements	3	
Mounting form	O48 - Modular service cover for 35mm din rail mounting with black handle	
Contact characteristics		
Rated insulation voltage Ui	IEC/EN UL/CSA	V V
Rated impulse withstand voltage Uimp		kV
Conventional free air thermal current Ith	IEC/EN UL/CSA	A A
Rated operational voltage		V
Rated operational impulse voltage		kV
Maximum fuse size for short-circuit protection In (gG)	10kA 15kA 25kA	A A A
Rated short time current Icw	1s	kA
Conductivity		10/5 mA/V
Operational current Ie IEC/EN		
AC1/AC21A		A
AC15		20
	110V 220/230V 380/400V 660/690V	A A A A
Rated operational power in AC		
Three-phase AC-3	220/230V 380/440V 500/690V	kW
Single-phase AC-3	110V 220/230V 380/440V	kW
Three-phase AC23A	220/230V 380/440V 500/690V	kW
Single-phase AC23A	110V	kW

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 5x10⁶

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

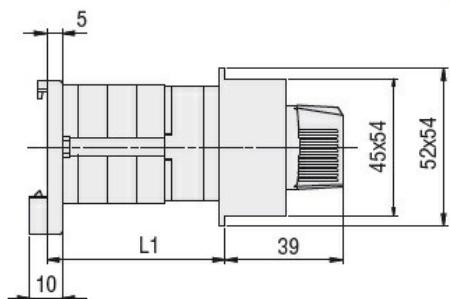
Ambient conditions

Temperature

Operating temperature

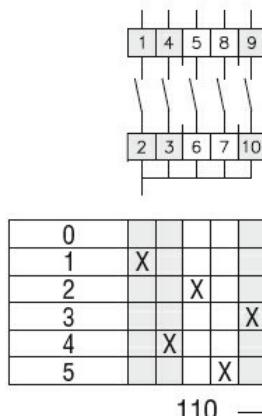
min	°C	-25
-----	----	-----

	max	°C	+55
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP00
Dimensions			



Series	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

