

Product designation	Rotary cam switches		
Product type designation	7GN12		
General characteristics			
Switching diagram	53 - Changeover switch 3 poles - 2 speed motor starting with separate windings		
N° of elements	3		
Mounting form	U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing		
Contact characteristics			
Rated insulation voltage Ui	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN UL/CSA	A A	16 15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA 15kA 25kA	A A A	16 10 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 220/230V 380/400V 660/690V	A A A A	10 8 4 1.5
Rated operational power in AC			
Three-phase AC-3	220/230V 380/440V 500/690V	kW kW kW	2.5 4 5.5
Single-phase AC-3	110V 220/230V 380/440V	kW kW kW	0.8 1.5 2.2
Three-phase AC23A	220/230V 380/440V 500/690V	kW kW kW	3 5.5 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 3x10⁶

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

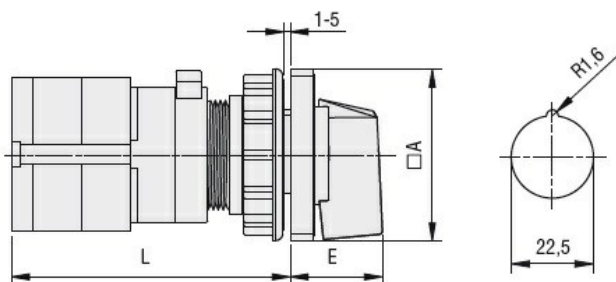
min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree IP40

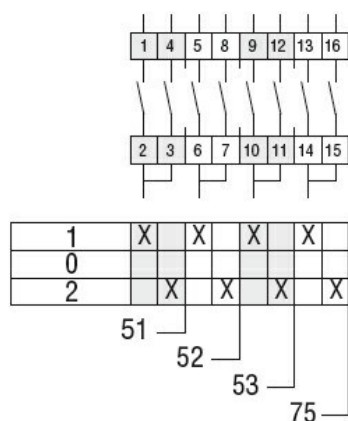
Terminals IP degree IP00

Dimensions



Series	Dimensions		L			
	□A	E	1	2	3.....8	
7GN12	48	26.5	58	67.7	77.4	125.9
7GN20	48	26.5	58	67.7	77.4	125.9
7GN25	48	26.5	62.4	76	89.6	157.6

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

