

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 front mounting with black handle for hole diam. 22mm fixing
Contact characteristics	
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 16
	UL/CSA A 15
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection In (gG)	
	10kA A 16
	15kA A 10
	25kA A 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 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
Three-phase AC23A	
	220/230V kW 3
	380/440V kW 5.5
	500/690V kW 7.5

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
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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 <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
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Conductor size (IEC) - Rigid cable			
	min	mm <sup>2</sup>	0.5
	Max	mm <sup>2</sup>	2.5
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Mechanical life		cycles	3x10 <sup>6</sup>
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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
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for single-phase motor			
	120V	HP	0.5
	240V	HP	1
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Ambient conditions			
Temperature			

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

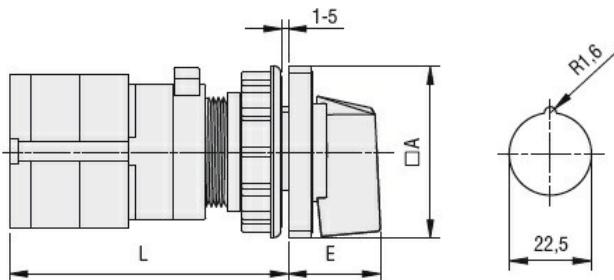
Frontal IP degree

IP40

Terminals IP degree

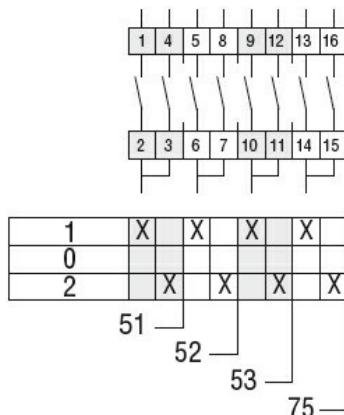
IP00

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

