

**ENERGY AND AUTOMATION** 

ROTARY CAM SWITCH 7GN SERIES, 3-PHASE MOTOR REVERSING SWITCH WITH SPRING RETURN 16A, MODULAR SERVICE COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation				Rotary cam
_				switches
Product type designation				7GN12
General characteristics Switching diagram				26 - 3-phase motor reversing switch with spring
N° of elements				return 3
Mounting form  Contact characteristics				U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing
Rated insulation voltage				
		IEC/EN UL/CSA	V V	690 600
Rated impulse withstar Conventional free air th			kV	6
Conventional nee all ti	lermai current iui	IEC/EN UL/CSA	A A	16 15
Rated operational volta			V	480
Rated operational impu	<u> </u>		kV	4
Maximum fuse size for	short-circuit protection In (gG)	10kA 15kA 25kA	A A A	16 10 10
Rated short time currer	nt Icw	20101		
		1s	Α	200
Conductivity				10/5 mA/V
Operational current le	IEC/EN			_
	AC1/AC21A		Α	16
	AC15	110V	A	10
		220/230V 380/400V	A A	8 4
Rated operational pow	er in AC	660/690V	Α	1.5
rated operational pow	Three-phase AC-3			
	Tillee phase Ao s	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
	Three-phase AC23A	380/440V	kW	2.2
	Tillee-pilase AO23A	220/230V	kW	3
		380/440V	kW	5.5
	Single-phase AC22A	500/690V	kW	7.5
	Single-phase AC23A	110V	kW	0.8



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Rated operational current in DC					
Rated operational current in DC   DC21A			220/230V	kW	1.7
DC21A			380/440V	kW	3
Max	Rated operational cur				
Conductor size   Cond		DC21A			
1100					
Part					
DC23A (poles in series)					
DC23A (poles in series)					
A			440V	A	0.25
A		DC23A (poles in series)			
Conductor size   Cond				Α	
110V				Α	10 (2)
DC13			60V	Α	10 (3)
DC13			110V	Α	5 (3)
DC13			220V	Α	5 (4)
A		DC13			• • • • • • • • • • • • • • • • • • • •
A			24V	Α	12
Conductor size (IEC) - Flexible cable   Max			48V		
110V					
Power dissipation					
Power dissipation   W   0.8					
Power dissipation   W					
Mechanical features	Dawer dissination		440 V		
Terminals screw				VV	0.8
Tightening torque for terminals max					MO
AWG - Rigid cable		Construction of the constr		N. I	
AWG - Rigid cable    min   AWG   20     Max   AWG   12     AWG - Flexible cable     min   AWG   20     Max   AWG   14     Conductor size (IEC) - Flexible cable     min   mm²   0.5     Max   mm²   2.5     Conductor size (IEC) - Rigid cable     min   mm²   0.5     Max   mm²   2.5     Conductor size (IEC) - Rigid cable     min   mm²   0.5     Max   mm²   2.5     Mechanical life   cycles   3x10°     UL technical data     Motor power for direct-on-line control     for three-phase motor     120V   HP   1.5     240V   HP   3     for single-phase motor     120V   HP   0.5     240V   HP   1.5     240V   HP		terminais max		NM	0.5
Max AWG   12	Conductor size				
Max AWG   12   AWG - Flexible cable     min   AWG   20   Max   AWG   14   AWG		AWG - Rigid cable			
AWG - Flexible cable    min   Max   AWG   20     Max   AWG   14     Conductor size (IEC) - Flexible cable     min   mm²   0.5     Max   mm²   2.5     Conductor size (IEC) - Rigid cable     min   mm²   0.5     Max   mm²   2.5     Mechanical life   cycles   3x106     UL technical data     Motor power for direct-on-line control     for three-phase motor     120V					
Max AWG 20   Max AWG 14			Max	AWG	12
Max		AWG - Flexible cable			
Conductor size (IEC) - Flexible cable			min	AWG	20
Max min mm² 0.5   Max mm² 2.5			Max	AWG	14
Max min mm² 0.5   Max mm² 2.5		Conductor size (IEC) - Flexible cable			
Conductor size (IEC) - Rigid cable			min	mm²	0.5
Conductor size (IEC) - Rigid cable			Max	mm²	2.5
Mechanical life         cycles         3x10°           UL technical data           Motor power for direct-on-line control for three-phase motor         120V         HP         1.5           240V         HP         3           for single-phase motor         120V         HP         0.5           240V         HP         1           Ambient conditions         240V         HP         1           Temperature         Operating temperature         min         °C         -25           max         °C         +55		Conductor size (IEC) - Rigid cable			
Mechanical life         cycles         3x10°           UL technical data           Motor power for direct-on-line control           for three-phase motor         120V         HP         1.5           240V         HP         3           for single-phase motor         120V         HP         0.5           240V         HP         1           Ambient conditions           Temperature           Operating temperature         min         °C         -25           max         °C         +55			min	mm²	0.5
Mechanical life         cycles         3x10 <sup>6</sup> UL technical data           Motor power for direct-on-line control           120V HP 1.5           240V HP 3           for single-phase motor           120V HP 0.5           240V HP 1           Ambient conditions           Temperature           Operating temperature           min °C -25           max °C +55					
Motor power for direct-on-line control	Mechanical life		man		
Motor power for direct-on-line control for three-phase motor    120V				3,0100	
for three-phase motor    120V		t-on-line control			
120V	oto: powor for difeo				
240V   HP   3		ioi tiliee-pilase iliotoi	4001/	Пυ	1 5
To single-phase motor					
120V		for about all and accounts	240V	нР	<b>3</b>
Ambient conditions   240V   HP   1		ror single-phase motor			o =
Ambient conditions  Temperature  Operating temperature  min °C -25  max °C +55					
Temperature  Operating temperature  min °C -25  max °C +55			240V	HP	1
Operating temperature  min °C -25  max °C +55					
min °C -25 max °C +55	Temperature				
max °C +55		Operating temperature			
			min	°C	-25
			max	°C	+55
		Storage temperature			





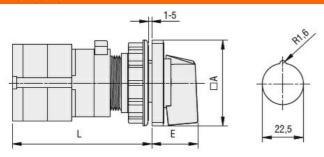
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min	°C	-40
max	°C	+70

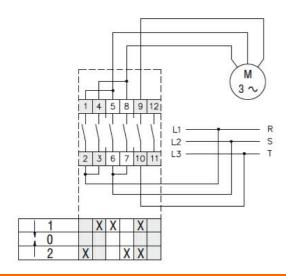
Resistance & Protection	
Frontal IP degree	IP40
Terminals IP degree	IP00

# Dimensions



Series	Dimer	Dimensions		L		
	□A	Е	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

cCSAus

**EAC** 

UL

### ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete