

**ENERGY AND AUTOMATION** 

ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 2 POLES 16A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 65X65MM

Product designation				Rotary cam
_	on.			switches 7GN12
Product type designation General characteristics				7 GN 12
Switching diagram				06 - ON/OFF switch 2 poles
N° of elements				1
Mounting form				O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers
Contact characteristics Rated insulation voltage	a Hi			
Trated insulation voitage	5 01	IEC/EN UL/CSA	V V	690 600
Rated impulse withstan			kV	6
Conventional free air th	ermal current Ith	IEC/EN UL/CSA	A A	16 15
Rated operational volta	ge	02/00/1	V	480
Rated operational impu			kV	4
	short-circuit protection In (gG)			
		10kA	Α	16
		15kA	Α	10
		25kA	Α	10
Rated short time currer	nt Icw	1s	kA	200
Conductivity				10/5 mA/V
Operational current le I	EC/EN AC1/AC21A		A	16
	AC15			
		110V	Α	10
		220/230V	Α	8
		380/400V	Α	4
<del></del>		660/690V	Α	1.5
Rated operational power				
	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
	Single-phase AC23A	500/690V	kW	7.5
	Single-phase ACZSA	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				5,0100	
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			



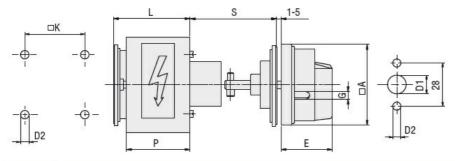
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min °C -40 max °C +70

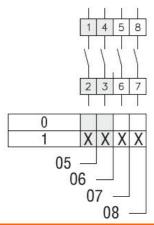
Resistance & Protection	
Frontal IP degree	IP40
Terminals IP degree	IP00

## **Dimensions**



Series	Dimensions								
	□A	D1	D2	Е	G	□K	S	Р	L
7GN12	65	12	5	34.2	5	36	45-55	43	51.3
7GN20	65	12	5	34.2	5	36	45-55	43	51.3
7GN25	65	12	5	34.2	5	36	45-55	51	59.6
7GN32	65	14	5	38	6	48	45-55	55	68.7
7GN40	65	14	5	38	6	48	45-55	55	68.7

# 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

## 7GN1206O88



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