**ENERGY AND AUTOMATION** 

# ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 16A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM



Product designation			Rotary cam
•			switches
Product type designation			7GN12
General characteristics			90 - ON/OFF
Switching diagram			switch 1 pole
N° of elements			1
			U - Front
Mounting form			mounting with
			black handle
Contact characteristics			
Rated insulation voltage Ui	150/5N		000
	IEC/EN	V	690
Rated impulse withstand voltage Uimp	UL/CSA	V kV	600
Conventional free air thermal current Ith		KV	0
Conventional nee all thermal current fur	IEC/EN	Α	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	Α	16
	15kA	Α	10
	25kA	Α	10
Rated short time current lcw		_	
	1s	A	200
Conductivity			10/5 mA/V
Operational current le IEC/EN  AC1/AC21A			
ACT/ACZTA		Α	16
AC15			10
7.010	110V	Α	10
	220/230V	Α	8
	380/400V	Α	4
	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	2.5
	380/440V	kW	4
Single-phase AC-3	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



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		380/440V	kW	5.5
		500/690V	kW	7.5
	Single-phase AC23A			
	emgie phace riezeri	110V	kW	0.8
		220/230V	kW	1.7
		380/440V	kW	3
Detect on a retional cur	rout in DC	360/4401	N V V	3
Rated operational cur				
	DC21A		_	
		48V	Α	12
		60V	Α	12
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)			
	, , , , , , , , , , , , , , , , , , , ,	24V	Α	10 (1)
		48V	A	10 (2)
		60V	A	10 (3)
		110V		
			A	5 (3)
	7040	220V	Α	5 (4)
	DC13			
		24V	Α	12
		48V	Α	10
		60V	Α	8
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
			• • • • • • • • • • • • • • • • • • • •	0.0
Mechanical teatures				
Mechanical features				M3
Terminals screw	terminale may		Nim	M3
Terminals screw Tightening torque for	terminals max		Nm	M3 0.5
Terminals screw			Nm	
Terminals screw Tightening torque for	terminals max  AWG - Rigid cable			0.5
Terminals screw Tightening torque for		min	Nm AWG	
Terminals screw Tightening torque for		min Max		0.5
Terminals screw Tightening torque for			AWG	20
Terminals screw Tightening torque for	AWG - Rigid cable		AWG	20
Terminals screw Tightening torque for	AWG - Rigid cable	Max	AWG AWG	0.5 20 12
Terminals screw Tightening torque for	AWG - Rigid cable  AWG - Flexible cable	Max min	AWG AWG	0.5 20 12 20
Terminals screw Tightening torque for	AWG - Rigid cable	Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14
Terminals screw Tightening torque for	AWG - Rigid cable  AWG - Flexible cable	Max min Max min	AWG AWG AWG AWG	0.5 20 12 20 14 0.5
Terminals screw Tightening torque for	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14
Terminals screw Tightening torque for	AWG - Rigid cable  AWG - Flexible cable	Max min Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14 0.5 2.5
Terminals screw Tightening torque for	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5 20 12 20 14 0.5 2.5 0.5
Terminals screw Tightening torque for the Conductor size	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	0.5  20 12  20 14  0.5 2.5
Terminals screw Tightening torque for to Conductor size  Mechanical life	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5 20 12 20 14 0.5 2.5 0.5
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5  20 12  20 14  0.5 2.5
Terminals screw Tightening torque for to Conductor size  Mechanical life	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5  20 12  20 14  0.5 2.5
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5  20 12  20 14  0.5 2.5
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5  20 12  20 14  0.5 2.5
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control	Max min Max min Max min Max	AWG AWG AWG AWG mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup>
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor	Max min Max min Max min Max	AWG AWG AWG Mm² mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup>
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control	Max min Max min Max min Max  120V 240V	AWG AWG AWG AWG mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup>
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor	Max min Max min Max  min Max  120V 240V	AWG AWG AWG Mm² mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup> 1.5 3
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data Motor power for direct	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor	Max min Max min Max min Max  120V 240V	AWG AWG AWG AWG mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup>
Terminals screw Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  t-on-line control for three-phase motor	Max min Max min Max  min Max  120V 240V	AWG AWG AWG Mm² mm² mm² cycles	0.5  20 12  20 14  0.5 2.5  0.5 2.5  3x10 <sup>6</sup> 1.5 3



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Operating	temperature

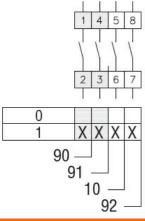
	min	°C	-25	
	max	°C	+55	
Storage temperature				
	min	°C	-40	
	max	°C	+70	
on				
			IP40	

Resistance & Protection
Frontal IP degree

Terminals IP degree IP00

### Dimensions

### 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