



Product designation			Rotary cam
Product type designation			switches 7GN12
General characteristics			
			03 - ON/OFF
Switching diagram			spring return
N° of elements			switch 3 poles
			O - Rear
Mounting form			mounting with
			black handle
Contact characteristics			
Rated insulation voltage Ui	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp	00000	kV	6
Conventional free air thermal current Ith			
	IEC/EN	А	16
	UL/CSA	А	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			10
	10kA 15kA	A A	16
	25kA	A	10 10
Rated short time current Icw	20174	Λ	10
	1s	kA	200
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		Α	16
AC15			4.0
	110V	A	10
	220/230V 380/400V	A A	8 4
	660/690V	A	4 1.5
Rated operational power in AC	000,000		
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 380/440V	kW kW	1.5 2.2
Three-phase AC23A	300/4401	IX V V	<i>L.L</i>

Three-phase AC23A

7GN12030



7GN12030 ROTARY CAM SWITCH 7GN SERIES, ON-OFF SPRING RETURN SWITCH 3 POLES 16A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

220/230V kW 3 380/440V kW 5.5 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 60/440V kW 3 DC21A 48V A 12 60/440V A 0.5 DC23A (poles in series) 24/V A 10 (1) 48/V A 10 (2) 60/V A 10 (2) 60/V A 10 (2) 60/V A 10 (2) 60/V A 10 (3) 110/V A 5 (3) 220/V A 10 (3) 110/V A 12 48/V A 10 (3) 110/V A 12 20/V A 10 60/V A 8 11/0/V A 1 220/V A 0.5 6 1 2					
Solviegov KW 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 60V A 12 10V A 4 220/V A 0.6 2202/V A 0.6 440V A 10 (1) 48V A 10 (2) 60V A 10 (3) 110V A 5 (3) 220V A 5 (4) 10 60V A 10 (3) 110V A 1 20V A 10 60V A 10 60V A 10 10 3 10V A 1 220V A 0.4 48V A 10 60V A 10 10			220/230V	kW	3
Single-phase AC23A 10V kW 0.8 220/230V kW 1.7 Rated operational current in DC 0C21A 48V A 12 60V A 12 10V A 4 2002 A 60V A 12 110V A 4 220V A 0.6 440V A 0.25 0 0 0 0 30 110V A 4 220V A 0.6 440V A 10 (2) 60V A 10 (3) 110V A 5 (3) 220V A 5 (4) 0 10 20 A 5 (4) 0 10 60V A 8 110V A 1 220V A 6 (4) A 10 6 (5) A 10 6 (5) A 10 6 (5) A 10 6 (5) A 1 220V A 0.4 440V A 0.15 A 10			380/440V	kW	5.5
110V KW 0.8 220(230) KW 1.7 380(440V kW 3 Rated operational current in DC 200(230) kW 1.7 DC21A 48V A 12 60V A 12 110V A 4 2202 A 0.6 220V A 0.6 440V A 10(1) 48V A 10(2) 60V A 10(3) 110V A 5 (3) DC13 24V A 10 60V A 8 DC13 24V A 10 60V A 8 110V A 1 220V A 0.4 48V A 10 60V A 8 110V A 1 220V A 0.4 Mechanical features M 10 10 10 Tightening forque for terminals max Nm 0.5			500/690V	kW	7.5
220/230V kW 1.7 380/440V kW 3 Rated operational current in DC DC21A 48V A 12 60V A 12 60V A 12 110V A 4 220V A 0.6 240V A 0.25 0.6 440V A 10(3) DC23A (poles in series) 24V A 10(3) 110V A 5 (3) DC13 220V A 10 60V A 1 Edward A 10 30V A 10 60V A 8 DC13 24V A 12 48V A 10 60V A 8 10V0 A 1 220V A 0.5 5 Power dissipation W 0.8 3 3 3 3 Power dissipation or registration target for terminals max Nm 0.5 3 3 3 <td< td=""><td></td><td>Single-phase AC23A</td><td></td><td></td><td></td></td<>		Single-phase AC23A			
380/440V kW 3 Rated operational current in DC U V 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 (2) 60V A 10 (3) 110V A 5 (3) DC13 24V A 12 48V A 10 (3) DC13 24V A 12 48V A 10 (3) Machanical features 220V A 5 (4) 220V A 8 Torninals screw W A 10 A 8 100V A 8 Tightening torque for terminals max Nm 0.5 MG 12 AWG - Rigid cable Min AWG 12 MWG 12 Mugd- Flexible cable Min MWG 20 </td <td></td> <td></td> <td>110V</td> <td>kW</td> <td>0.8</td>			110V	kW	0.8
Rated operational current in DC DC21A 48V A 12 60V A 12 60V A 12 110V A 4 220V A 0.6 24V A 10(1) 48V A 10(2) 60V A 10(2) 60V A 10(3) 110V A 5 (3) 220V A 5 (4) DC13 24V A 10 60V A 8 110V A 1 20V A 0.4 48V A 10 60V A 8 110V A 1 20V A 0.4 48V A 10 60V A 8 110V A 1 20V A 0.4 48V A 10 60V A 8 110V A 1 20V A 0.5 Conductorsize			220/230V	kW	1.7
Rated operational current in DC DC21A 48V A 12 60V A 12 60V A 12 110V A 4 220V A 0.6 220V A 0.6 440V A 0.25 DC23A (poles in series) 24V A 10 (3) 110V A 5 (3) 20V A 5 (3) 220V A 5 (4) DC13 24V A 10 (3) DC13 24V A 10 60V A 8 110V A 1 20V A 0.4 48V A 10 60V A 8 100V A 8 100V A 8 10V A 1 20V A 0.4 440V A 0.5 5 60V A 8 10V A 1 20V A 0.5 5 6 1 1 1			380/440V	kW	3
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Image: series					
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Intervention Interventin Intervention Intervention </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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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 220V A 0.4 Power dissipation W 0.8 Mechanical features M3 Terminals screw M3 11ghtening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 12 AWG - Flexible cable min AWG 12 AWG - Flexible cable min mm² 0.5 Conductor size (IEC) - Flexible cable min mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 2.5 Mechanical life cycles 3x10* 2.5 UL technical data min mm² 2.5 Motor power for direct-on-line control for single-phase motor 120V HP 3 for single-phase motor 120V HP 0.5 240V <td></td> <td></td> <td>110V</td> <td>Α</td> <td>5 (3)</td>			110V	Α	5 (3)
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 W 0.8 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 Max AWG 12 AWG - Flexible cable min AWG 20 Max MWG 14 Conductor size (IEC) - Flexible cable min mm² 0.5 Max Mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 2.5 Max m² 2.5 Mechanical life cycles 3x10° UL 1.5 240V HP 3 Motor power for direct-on-line control for three-phase motor 120V <t< td=""><td></td><td></td><td>220V</td><td>A</td><td>5 (4)</td></t<>			220V	A	5 (4)
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 W 0.8 Terminals screw M3 1 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable Max AWG AWG - Rigid cable min AWG 12 AWG - Flexible cable min MMX 20 Max AWG 14 20 Conductor size (IEC) - Flexible cable min mm² 0.5 Max MMG 2.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 3x10° UL technical data VL VL HP 1.5 240V HP		DC13			
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Power dissipation W 0.8 Mechanical features M3 Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Rigid cable min AWG 20 Max AWG 12 AWG - Rigid cable min AWG - 20 Max AWG - 12 AWG - Flexible cable min AWG - 20 Max AWG - 14 20 Max AWG - 14 20 Max AWG - 14 20 Max MWG - 20 Max MM2 - 20 S Max Mm2 - 2.5 Max Mm2 - 2.5 Max Mm2 -					
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Terminals screw M3 Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 Max AWG 12 Max AWG 12 AWG - Flexible 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 Mechanical life cycles 3x10 ^e UL technical data unth? 2.5 Motor power for direct-on-line control for three-phase motor 120V HP 3 for single-phase motor 120V HP 3 1 120V HP 0.5 240V HP 3				VV	0.8
Tightening torque for terminals max Nm 0.5 Conductor size AWG - Rigid cable min AWG 20 AWG - Rigid cable Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 0.5 Conductor size (IEC) - Flexible cable min mm² 0.5 Max mm² 2.5 0.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 0.5 Mechanical life cycles 3x10* 0.5 UL technical data mm² 2.5 0.5 Motor power for direct-on-line control for three-phase motor 120V HP 1.5 for single-phase motor 120V HP 0.5 240V HP 1 0.5					M3
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min AWG 20 Max AWG 12 AWG - Flexible cable min AWG Max AWG 14 Conductor size (IEC) - Flexible cable min mm² Max mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² UL technical life cycles 3x10° UL technical data utechnical data utechnical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 for single-phase motor 120V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 1	Conductor size				
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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 2.5 Mechanical life cycles 3x10° UL technical data cycles 3x10° Motor power for direct-on-line control 120V HP 1.5 240V HP 3 15 120V HP 0.5 120V HP 0.5 240V HP 1			min		
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MaxAWG14Conductor size (IEC) - Flexible cableminmm²0.5Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²2.5Maxmm²2.53x10°Mechanical lifecycles3x10°UL technical datattMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3120VHP1.5240VHP111		AWG - Flexible cable			
MaxAWG14Conductor size (IEC) - Flexible cableminmm²0.5Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²2.5Maxmm²2.53x10°Mechanical lifecycles3x10°UL technical datattMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3120VHP1.5240VHP111			min	AWG	20
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 3x10 ⁶ UL technical data cycles 3x10 ⁶ Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 120V HP 0.5 120V HP 0.5 240V HP 1			Max	AWG	14
$\begin{tabular}{ c c c c c } \hline min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline \hline Conductor size (IEC) - Rigid cable & & & & \\ \hline min & mm^2 & 0.5 \\ \hline Max & mm^2 & 2.5 \\ \hline Cycles & 3x10^6 \\ \hline UL technical data & & & \\ \hline UL technical data & & & \\ \hline UL technical data & & & \\ \hline Motor power for direct-on-line control & & & \\ for three-phase motor & & & \\ \hline for three-phase motor & & & \\ \hline 120V & HP & 1.5 \\ 240V & HP & 3 \\ \hline for single-phase motor & & & \\ \hline 120V & HP & 0.5 \\ 240V & HP & 1 \\ \hline \end{tabular}$		Conductor size (IEC) - Flexible cable	-		
Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²0.5Maxmm²2.50.5Maxmm²2.50.5Mechanical lifecycles3x10°UL technical dataMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP31.5120VHP3I 20VHP0.5120VHP0.5240VHP1			min	mm²	0.5
Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 3x10 ⁶ 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					
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Max mm² 2.5 Mechanical life cycles 3x10 ⁶ UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 3 3 for single-phase motor 120V HP 0.5 240V HP 1 1		CONTRACTOR SIZE (IEC) - RIGIN CADIE		mm ²	0.5
Mechanical life cycles 3x10 ⁶ UL technical data Image: state of the state of					
UL technical data Motor power for direct-on-line control for three-phase motor	Marchard		IVIAX		
Motor power for direct-on-line control for three-phase motor $\begin{array}{c c} 120V & HP & 1.5\\ 240V & HP & 3\\ \hline for single-phase motor\\ 120V & HP & 0.5\\ 240V & HP & 1\\ \end{array}$				cycles	3x10°
for three-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1					
120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1	Motor power for direc				
240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1		for three-phase motor			
for single-phase motor 120V HP 0.5 240V HP 1			120V	HP	1.5
for single-phase motor 120V HP 0.5 240V HP 1			240V	HP	3
120V HP 0.5 240V HP 1		for single-phase motor			
240V HP 1		U	120V	HP	0.5
	Ambient conditions		2+0 V		•

7GN1203O

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

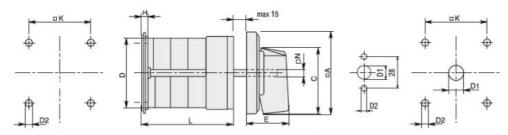


7GN12030 ROTARY CAM SWITCH 7GN SERIES, ON-OFF SPRING RETURN SWITCH 3 POLES 16A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Temperature

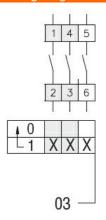
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP00
Dimensions			

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Series	Dimensions					L Number of elements														
Series	□A	С	ØD	ØD2	E	Н	۵K	۵N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	220.3	249.4	278.5	307.6	336.7	365.8	394.9

Wiring diagrams



Certifications and compliance

Compliance

Complianc		
	CSA C22.2 n° 14	
	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-3	
	IEC/EN/BS 60947-5-1	
	UL60947-4-1	
Certificate	3	
	cCSAus	
	EAC	
7GN1203O	The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustratives and instructions in this brochure are purely illustrative, and are consequently not contractually binding.	3 / 4



ENERGY AND AUTOMATION

7GN12030 ROTARY CAM SWITCH 7GN SERIES, ON-OFF SPRING RETURN SWITCH 3 POLES 16A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

UL

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete