

7GN20135O48 ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2, 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

Control Gasgination Switches Switching diagram 135 - Multi-step 0-1-2 3 poles N° of elements 3 N° of elements 048 - Multi-step 0-1-2 3 poles Mounting form O48 - Multi-step 0-1-2 3 poles Contact characteristics 048 - Multi-step 0-1-2 3 poles Rated insulation voltage Uinp EC/EN V 690 UL/CSA V Conventional free air thermal current Ith EC/EN Eacted inpulse withstand voltage V Rated operational inpulse voltage V Rated operational inpulse voltage V Rated operational inpulse voltage KV Rated operational inpulse voltage KV Rated operational inpulse voltage KV Conductivity 10 KA Operational current Icw 1s Conductivity 10 S mA/V Operational current Icw 1s A 20 AC15 110V AC15 110V Single-phase AC-3 220/230V Single-phase AC-3 220/230V </th <th>Product designation</th> <th></th> <th></th> <th></th> <th>Rotary cam</th>	Product designation				Rotary cam
General Pharacteristics 135 - Multi-step 0-1-2.3 poles N° of elements 3 N° of elements 048 - Modular service cover for 335mm din rail mounting with black handle Contact characteristics 048 - Modular service cover for 345mm din rail mounting with black handle Contact characteristics 180 - Modular service cover for 345mm din rail mounting with black handle Contact characteristics 180 - Modular service cover for 345mm din rail mounting with black handle Contact characteristics V Rated insulation voltage Uimp KV Conventional free air thermal current Ith IEC/EN IEC/EN A Rated operational impulse voltage KV Maximum fuse size for short-circuit protection In (gG) 10kA Na A 16 Rated operational current Icw 1s A 20 Conductivity 10/5 mA/V Operational current Ic 10/5 mA/V Operational power in AC A Three-phase AC-3 10/7 M Single-phase AC-3 10/7 KW Single-phase AC23A 20/230V Single-phase AC23A	-	tion			
Switching diagram 135 - Multi-step 0-1-2 3 poles N° of elements 3 Mounting form Softmather service cover for 35mm din rail mounting with black handle Contact characteristics IEC/EN V Rated insulation voltage Uinp KV 6 Conventional free air thermal current ith IEC/EN X 6 Conventional free air thermal current ith IEC/EN A 20 Rated operational voltage V 480 480 Rated operational voltage kV 4 Maximum fuse size for short-circuit protection In (gG) 10KA A 20 15kA A 16 16 16 Rated operational current lew 1s A 20 15kA A 16 16 Rated short time current low 1s A 20 250/20020V A 8 380/400V A 660/680V A 1.5 1.5 Rated operational power in AC 20/20/20V KW 3 100/20/20/20					7GN20
N° of elements 3 Mounting form 35mm din rail 35mm din rail mounting with black handle Contact charactoristics 1EC/EN V Rated insulation voltage Ui 1EC/EN V Conventional free air thermal current th 1EC/EN X 1EC/EN X 6000 Rated operational voltage Uimp KV 6 Conventional free air thermal current th 1EC/EN A 1EC/EN X 4800 Rated operational voltage V 480 Rated operational voltage KV 4 Maximum fuse size for short-circuit protection in (gG) 10kA A 20 15kA A 16 16 Rated operational current lew 1s A 250 Conductivity 10/5 mAV 00/5 mAV 0/5 mAV Operational current le IEC/EN A 6 660/680V A 6 AC15 110V A 10 220/230V A 8 3040/40V A 6 55					
Mounting form 048 - Modular service cover for 35mm din rail mounting with black handle Contact characteristics IEC/EN V 690 Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uimp KV 6 Conventional free air thermal current Ith IEC/EN A 20 Rated operational voltage V 480 4 Rated operational impulse voltage KV 4 4 Maximum fuse size for short-orout protection In (gC) 10kA A 20 15kA A 16 250 16 Conductivity 10kA 20 15 A 20 15kA A 16 26 20 16 Rated short time current low 1s A 250 20 Act15 110V A 10 220/230V A 8 Act16 200/230V A 6 660/690V A 1.5 Rated operational power in AC 20/230V KW <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Conventional free air thermal current Ith IEC/EN A 20 Rated operational voltage V 480 480 Rated operational voltage KV 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 16kA A 16 16kA A 16 Rated operational impulse voltage KV 4 4 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 16kA A 16 Rated short time current Icw 1 10/5 mA/V 10/5 mA/V 0 220/230V A 8 380/400V A 6 660/690V KW 5 5 500/690V KW 5 5 5 5 5 5 380/440V KW <td></td> <td></td> <td></td> <td></td> <td>O48 - Modular service cover for 35mm din rail mounting with</td>					O48 - Modular service cover for 35mm din rail mounting with
IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Conventional free air thermal current Ith IEC/EN A 20 Rated operational voltage V 480 480 Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 15kA A 16 16 Rated short time current Icw 1s A 250 Conductivity 1s A 250 Conductivity 10/5 mA/V 00/5 mA/V Operational current Ie IEC/EN A 20 AC15 110V A 10 220/230V A 8 380/400V AC15 110V A 8 380/400V A 6 660/690V A 1.5 Rated operational power in AC 100/5 mA/V 380/40V Three-phase AC-3 220/230V kW 3.5 Single-phase AC-3 10V <td>Contact characteristic</td> <td>S</td> <td></td> <td></td> <td></td>	Contact characteristic	S			
UL/CSA V 600 Rated impulse withstand voltage Uimp kV 6 Conventional free air thermal current lth IEC/EN A 20 Rated operational voltage V 480 Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection ln (gG) 10kA A 20 15kA A 16 25kA A 16 25kA A 16 25kA A 16 Conductivity 1s A 250 20 Conductivity 1s A 250 20 Conductivity 1s A 250 20 Conductivity 10/5 mA/V 0perational current letteC/EN A 20 AC15 110V A 10 220/230V A 8 Rated operational power in AC 220/230V KW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 3 <td>Rated insulation voltage</td> <td>ge Ui</td> <td></td> <td></td> <td></td>	Rated insulation voltage	ge Ui			
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Rated operational voltage V 480 Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection ln (gG) 10kA A 20 15kA A 16 Rated short time current lcw 1s A 250 Conductivity 10/5 mA/V 10/5 mA/V Operational current le IEC/EN A 20 AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 A 20 A 3 Rated operational power in AC Three-phase AC-3 220/230V KW 3 380/400V KW 5.5 Single-phase AC-3 110V KW 0.8 220/230V KW 2.2 380/440V kW 2.2 380/440V kW 3.5 Single-phase AC-3 110V KW 0.8 220/230V kW 2.2 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Rated operational impulse voltage kV 4 Maximum fuse size for short-circuit protection In (gG) 10kA A 20 15kA A 16 25kA A 16 Rated short time current Icw 1s A 250 0 Conductivity 1s A 250 0 Operational current Ie IEC/EN 10/5 mA/V 10/5 mA/V 0 AC15 110V A 10 220/230V A 8 380/40V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 Single-phase AC-3 110V kW 0.8 220/230V kW 3 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 2.2 380/440V kW 2.2 Single-phase AC23A 10V kW 5.5 500/690V kW 5.5 Single-phase AC23A	Rated operational vol	tage			
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15kA A 16 25kA A 16 Rated short time current lcw 1s A 250 Conductivity 1s A 250 Operational current le IEC/EN 10/5 mA/V 10/5 mA/V AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 1.5 Rated operational power in AC 220/230V KW 3 Three-phase AC-3 220/230V KW 3 3 220/230V kW 2.2 380/40V KW 2.2 380/40V kW 2.2 380/40V KW 3 Three-phase AC-3 110V kW 2.2 380/40V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 Single-phase AC23A 220/230V kW 5 380/440V kW 7.5	Maximum fuse size fo	or short-circuit protection In (gG)			
25kA A 16 Rated short time current lcw 1s A 250 Conductivity 10/5 mA/V 10/5 mA/V Operational current le IEC/EN AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 1.5 1.5 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 5.5 Single-phase AC23A 110V kW 5.5 380/440V kW 3 Three-phase AC23A 220/230V kW 5.5 380/440V kW 5.5 Single-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 5 380/440V kW 7.5 Single-phase AC23A			-		
Rated short time current lcw 1s A 250 Conductivity 10/5 mA/V 00/5 mA/V Operational current le IEC/EN AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 1.5 1.5 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 380/440V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 5.5 Single-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.8 380/440V KW <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
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Conductivity 10/5 mA/V Operational current le IEC/EN AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 15 15 15 Rated operational power in AC Three-phase AC-3 220/230V KW 3 380/440V kW 5.5 Single-phase AC-3 110V KW 0.8 220/230V kW 2.2 380/440V kW 3 380/440V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 Single-phase AC23A 220/230V kW 5 500/690V kW 7.5 Single-phase AC23A 110V KW 0.8 200/690V <t< td=""><td>Rated short time curre</td><td></td><td>16</td><td>Δ</td><td>250</td></t<>	Rated short time curre		16	Δ	250
Operational current le IEC/EN A 20 AC1/AC21A A 20 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 380/440V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 110V KW 0.8 30/690V kW 7.5	Conductivity		15		
AC1/AC21A AC15 AC15 110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 3. 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 500/690V kW 7.5 500/690V kW 7.5 500/6	-	EIEC/EN			
AC15 110V A 10 220/230V A 8 380/400V A 6 380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3					
110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 2.2 380/440V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 5 380/440V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.8				А	20
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380/400V A 6 660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 110V kW 5 380/440V kW 5 380/440V kW 5 380/440V kW 5 Single-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.8 380/440V 1.08 380/440V 1.08					
660/690V A 1.5 Rated operational power in AC Three-phase AC-3 220/230V kW 3 220/230V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC-3 110V kW 0.8 220/230V kW 5 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.8					
Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC-33 Three-phase AC23A Z20/230V kW 5 Single-phase AC23A Single-phase AC23A Three AC23A					
Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC-3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 0.8	Rated operational pov	wer in AC	000/030 v	~	1.0
220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 5 380/440V kW 7.5 Single-phase AC23A 7.5 Single-phase AC23A 110V kW 0.8	rated operational per				
500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 Single-phase AC23A 110V kW 7.5		•	220/230V	kW	3
Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8			380/440V	kW	5.5
110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8			500/690V	kW	5.5
220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8		Single-phase AC-3			
380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8					
Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8					
220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8		Three-phase AC23A	500/440V	~ * *	5
380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A 110V kW 0.8			220/230V	kW	5
500/690V kW 7.5 Single-phase AC23A 110V kW 0.8					
110V kW 0.8					
		Single-phase AC23A			
220/230V kW 2.5					
			220/230V	kW	2.5

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		380/440V	kW	3.7
Rated operational cur	rent in DC			
	DC21A			
		48V	Α	20
		60V	A	20
		110V	A	4
		220V	A	0.6
		440V	A	0.25
	DC23A (poles in series)	<u> </u>		00 (1)
		24V	A	20 (1)
		48V	A	20 (2)
		60V	A	20 (3)
		110V	A	10 (3)
	DC12	220V	A	8 (4)
	DC13	24V	۸	20
		24 v 48 V	A	20 16
		48 v 60 V	A A	16
		110V	A	1
		220V	A	0.4
		440V	A	0.15
Power dissipation		0044	W	0.8
Mechanical features			••	0.0
Terminals screw				M3
Tightening torque for t	terminals max		Nm	0.5
Conductor size				0.0
	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
Mechanical life			cycles	5x10 ⁶
UL technical data				
Motor power for direct				
	for three-phase motor			
		120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
	for single phase with	600V	HP	10
	for single-phase motor	1001		0.75
		120V	HP	0.75
		240V	HP	2
Ambient conditions				
Temperature				
	Operating temperature		• •	05
		min	°C °C	-25
		max	°C	+55

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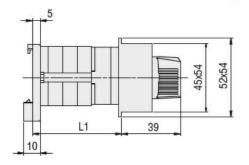
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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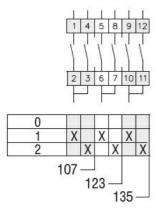
ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2, 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

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



Series	L1			
	1	2	3	
7GN12	38.1	47.8	57.5	
7GN20	38.1	47.8	57.5	
7GN25	42.5	56.1	69.7	

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

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