

## **7GN2093O48** ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

Induct bools of the set of the	Product designation				<sup>a</sup> Rotary cam
General characteristics   93 - Multi-step 1     Switching diagram   03 - Multi-step 1     N° of elements   048 - Modular service cover for 35mm din rail mounting with black handle     Contact characteristics   048 - Modular service cover for 35mm din rail mounting with black handle     Contact characteristics   048 - Modular service cover for 35mm din rail mounting with black handle     Contact characteristics   048 - Modular service cover for 35mm din rail mounting with black handle     Contact characteristics   v     Rated insulation voltage UII   IEC/EN   V     Conventional free air thermal current Ith   IEC/EN   A     Rated operational voltage   kV   4     Rated operational impulse voltage   kV   4     Rated operational impulse voltage   kV   4     Rated short time current Icw   15 A   16     Conductivity   10/5 mA/V   0     Operational current Ie IEC/EN   A   20     AC15   110V   A   16     Rated operational power in AC   220/230V   KW   3     Rated operational power in AC   220/230V   KW	-	lion			
Switching Judgatin   2-3 3 poles     N° of elements   5     Mounting form   048 - Modular 36mm din rail mounting with black handle     Contact characteristics					7 GINZO
N° of elements   5     Mounting form   O48 - 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     Conventional free air thermal current Ith   IEC/EN   A   20     Rated operational voltage   V   480   Rated operational impulse voltage   KV   4     Maximum fuse size for short-circuit protection In (gG)   10kA   A   20   15kA   A   16     Rated short time current Icw   1s   A   250   Conductivity   10/5 mA/V     Operational current Ic IEC/EN   A   20   10/5 mA/V   20   220/230V   A   8     AC15   110V   A   10   220/230V   A   8   380/440V   KW   3.5     Rated operational power in AC   220/230V   KW   3.5   500/690V   A   6   6   6   6   6   6   6   6   6   6   6   5.5	Switching diagram				
Mounting form   service cover for 35mm din rail mounting with black handle     Contact characteristics   itex handle     Rated insulation voltage Ui   IEC/EN   V   690     Rated insulation voltage Uimp   KV   6   600     Rated insulation voltage Uimp   KV   6   600     Conventional free air thermal current Ith   IEC/EN   A   20     Rated operational voltage   V   480   8     Rated operational impulse voltage   KV   4     Maximum fuse size for short-circuit protection In (gG)   10kA   A   20     15kA   A   16   16kA   A   16     Rated short time current Icw   1s   A   250   20     Conductivity   1s   A   20   4     AC15   10V   N   10     220/230V   A   8   380/400V   A   6     Conductivity   10   220/230V   A   8   380/40V   A   6     Rated operational current Ic   22	N° of elements				
Rated insulation voltage Ui     IEC/EN   V   690     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     Rated operational impulse voltage   kV   4   4     Maximum fuse size for short-circuit protection ln (gG)   10kA   A   20     15kA   A   16   25.0   10/5 mA/V     Operational current low					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     18kA   A   16   16     Rated short time current lcw   1s   A   20     Conductivity   10/5 mA/V   0/5 mA/V   0/5 mA/V     Operational current le IEC/EN   A   20   10/5 mA/V     Quertivity   10/5 mA/V   0/5 mA/V   0/5 mA/V     Operational current le IEC/EN   A   20   10/5 mA/V     AC1/AC21A   A   10   220/230V   A   8     380/400V   A   6   660/690V   A   1.5     Rated operational power in AC   10/V   XW   5.5   500/690V   kW   5.5     Single-phase AC-3   20/230V   kW					
UL/CSA   V   600     Rated impulse withstand voltage Uimp   KV   6     Conventional free air thermal current Ith   IEC/EN   A   20     Rated operational voltage   KV   4   4     Maximum fuse size for short-circuit protection In (gG)   10kA   A   20     15kA   A   16   25kA   A   16     25kA   A   16   25kA   A   16     Rated short time current Icw   1s   A   250   10/5 mA/V     Operational current I IEC/EN   A   20   A   20     AC1/AC21A   A   20   A   8     AC15   110V   A   10   220/230V   A   8     AC16   20/400V   A   1.5   A   2.0     Rated operational power in AC   Three-phase AC-3   220/230V   KW   3   380/440V   kW   3.5     Single-phase AC-3   110V   KW   0.8   220/230V   KW   5.5	Rated insulation voltage	ge Ui			
Conventional free air thermal current lith   IEC/EN   A   20     Rated operational voltage   V   480     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   20     Conductivity   10/5 mA/V   00/5 mA/V   00/5 mA/V     Operational current le IEC/EN   AC1/AC21A   A   20     AC15   110/V   A   10   220/230V   A   8     380/400V   A   6   660/690V   A   1.5     Rated operational power in AC   Three-phase AC-3   110/V   KW   3     Single-phase AC-3   110/V   KW   3.8   220/230V   kW   3     220/230V   kW   3.8   380/440V   kW   3.5   5     Single-phase AC-3   110/V   kW   0.8   220/230V   kW				V	
IEC/EN   A   20     Rated operational voltage   V   480     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 lcw   1s   A   250   Conductivity   10/5 mA/V     Operational current le IEC/EN   AC1/AC21A   A   20   AC15   10/V   A   10     AC15   110V   A   10   220/230V   A   8   380/400V   A   6     Rated operational power in AC   10   220/230V   A   8   380/400V   A   6     Single-phase AC-3   110V   A   10   220/230V   KW   3     Single-phase AC-3   110V   KW   0.8   220/230V   KW   3     Actional power in AC   110V   KW   3.5   5   5   5     Single-phase AC-3   110V	-			kV	6
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     Rated short time current lcw   1s   A   250   0     Conductivity   1s   A   250   0     Conductivity   1s   A   250     Conductivity   1s   A   20     AC1/AC21A	Conventional free air t	hermal current Ith		А	
Rated operational impulse voltage   kV   4     Maximum fuse size for short-circuit protection In (gG)   10kA   A   20     15kA   A   16     Rated short time current Icw   1s   A   250     Conductivity   1s   A   250     Operational current Ie IEC/EN   10/5 mA/V   10/5 mA/V     Operational current Ie IEC/EN   A   20     AC15   110V   A   10     220/230V   A   8   380/400V   A     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   3     Three-phase AC-3   110V   kW   0.8   220/230V   kW   5     Single-phase AC23A   220/230V   kW   5   380/440V   kW   3     Three-phase AC23A   220/230V   kW   5 <t< td=""><td></td><td></td><td>UL/CSA</td><td></td><td></td></t<>			UL/CSA		
Maximum fuse size for short-circuit protection ln (gG) 10kA A 20   15kA A 16   25kA A 16   Rated short time current lcw   Is A   Quadratic colspan="2">Quadratic colspan="2"   Quadratic colspan="2" Quadratic colspan="2" </td <td></td> <td>-</td> <td></td> <td></td> <td></td>		-			
10kA   A   20     15kA   A   16     25kA   A   16     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   Rated operational power in AC   15   10/5 mA/V     Rated operational power in AC   Three-phase AC-3   220/230V   A   8     380/400V   KW   3   3   3   3     Single-phase AC-3   110V   kW   0.8   220/230V   kW   2.2     380/440V   kW   3   3   3   3     110V   kW   0.8   220/230V   kW   2.2     380/440V   kW   3   3   3   3     20/230V   kW   5   3	i			kV	4
1s   A   250     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   110V   A   6     Rated operational power in AC     Three-phase AC-3   220/230V   kW   3     380/400V   kW   5.5   5     Single-phase AC-3   110V   kW   3.8     220/230V   kW   3   2     380/440V   kW   3.5   3     Single-phase AC-3     110V   kW   0.8     220/230V   kW   3   3     Three-phase AC23A     110V   kW   7.5   3     200/230V   kW   7.5   3     Single-phase AC23A     Three-phase AC23A   3 <t< td=""><td></td><td></td><td>15kA</td><td>А</td><td>16</td></t<>			15kA	А	16
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   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   3     Three-phase AC-3   110V   kW   0.8   220/230V   kW   3     Single-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   380/440V   kW   7.5     Single-phase AC23A   110V   kW   0.8	Rated short time cure		15	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   1.5   1.5   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   500/690V   kW   2.2   380/440V   kW   0.8   220/230V   kW   2.2   380/440V   kW   3 <td>Conductivity</td> <td></td> <td>15</td> <td></td> <td></td>	Conductivity		15		
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   220/230V   kW   5.5   500/690V   kW   2.2     380/440V   kW   0.8   220/230V   kW   2.2     380/440V   kW   3   380/440V   kW   5     Three-phase AC23A     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 AC23A		IEC/EN			
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   500/690V   kW   5.5     Single-phase AC-3     110V   kW   0.8   220/230V   kW   2.2     380/440V   kW   3   3   3   3     Three-phase AC-3   110V   kW   0.8     220/230V   kW   2.2     380/440V   kW   3   3     Three-phase AC23A     220/230V   kW   5     380/440V   kW   5     380/440V   kW   7.5   5   500/690V   kW   7.5     Single-phase AC23A   110V   kW   0.8   3		AC1/AC21A		А	20
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   3   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   7.5   500/690V   kW   7.5		AC15			
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     Three-phase AC-3     110V   kW   0.8   220/230V   kW   3     Three-phase AC23A     220/230V   kW   5   380/440V   kW   5     380/440V   kW   7.5   500/690V   kW   7.5     Single-phase AC23A     110V   kW   0.8			110V	А	10
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     Three-phase AC-3     110V   kW   0.8     220/230V   kW   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 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-3   Three-phase AC23A   220/230V kW 5   380/440V kW 5   380/440V kW 5   Single-phase AC23A   Three-phase AC23A   220/230V kW 5   380/440V kW 5   380/440V kW 7.5   Single-phase AC23A   110V kW 0.8					
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	Deted energtional new		660/690V	A	1.5
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 7.5   Single-phase AC23A 7.5   Single-phase AC23A 110V kW 0.8	Nateu operational pov				
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 7.5   Single-phase AC23A 110V kW 7.5   Single-phase AC23A 110V kW 0.8			220/230V	kW	3
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 7.5   500/690V kW 7.5   Single-phase AC23A 110V kW 0.8					
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   380/440V kW 7.5   Single-phase AC23A 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		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 ACCOA	380/440V	kW	3
380/440V kW 7.5   500/690V kW 7.5   Single-phase AC23A 110V kW 0.8		inree-phase AC23A	220/2201/	F/V1	5
500/690V kW 7.5 Single-phase AC23A 110V kW 0.8					
Single-phase AC23A 110V kW 0.8					
110V kW 0.8		Single-phase AC23A	000,000		
220/230V kW 2.5		<b>~</b> ,	110V	kW	0.8
			220/230V	kW	2.5

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**7GN2093O48** ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

		380/440V	kW	3.7
Rated operational curr	rent in DC			
	DC21A			
		48V	А	20
		60V	А	20
		110V	А	4
		220V	А	0.6
		440V	А	0.25
	DC23A (poles in series)			
		24V	А	20 (1)
		48V	А	20 (2)
		60V	А	20 (3)
		110V	А	10 (3)
		220V	А	8 (4)
	DC13			
		24V	А	20
		48V	А	16
		60V	A	12
		110V	A	1
		220V	A	0.4
		440V	A	0.15
Power dissipation		1101	W	0.8
Mechanical features				0.0
Terminals screw				M3
Tightening torque for t	erminals may		Nm	0.5
Conductor size			1 111	0.0
	AWG Bigid coblo			
	AWG - Rigid cable	min	AWG	20
		min		
		Max	AWG	12
	AWG - Flexible cable			20
		min	AWG	20
	Openductor size (IEO) Elevible poble	Max	AWG	14
	Conductor size (IEC) - Flexible cable			0.5
		min	mm²	0.5
		Max	mm²	2.5
	Conductor size (IEC) - Rigid cable		2	o <b>-</b>
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	5x10 <sup>6</sup>
UL technical data				
Motor power for direct				
	for three-phase motor			
		120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
		600V	HP	10
	for single-phase motor			
		120V	HP	0.75
		240V	HP	2
Ambient conditions				
Temperature				_
	Operating temperature			
		min	°C	-25
		max	°C	+55

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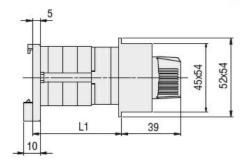
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



## **7GN2093O48** ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3, 3 POLES 20A, MODULAR SERVICE

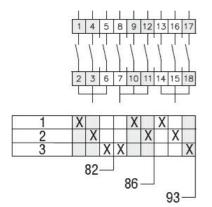
COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

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



Cariaa	L1			
Series	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