

ENERGY AND AUTOMATION

ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH WITHOUT 0, 1 POLE 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product type designation Foreign Foreign	Product designation			Rotary cam
Switching diagram Substituting diagram	Product type designation			
Switching diagram 54 - Changeover switch without 0 1 pole N° of elements 1 Mounting form O - Rear mounting with black handle Contact characteristics Rated insulation voltage UI IEC/EN V 690 UL/CSA V 600 Rated insulation voltage Uimp kV 6 Conventional free air thermal current lth IEC/EN A 20 UL/CSA A 16 UL/CSA A 20 UL/CSA A 16 UL/CSA A				701120
N° of elements 1				switch without 0 1
Mounting form Brace Brac	N° of elements			· · · · · · · · · · · · · · · · · · ·
Rated insulation voltage Ui	Mounting form			mounting with
Comment Comm	Contact characteristics			
Rated impulse withstand voltage Uimp	Rated insulation voltage Ui			
Rated impulse withstand voltage Uimp		IEC/EN	V	690
Conventional free air thermal current ith		UL/CSA	V	600
Rated operational voltage V V V V V V V V V	Rated impulse withstand voltage Uimp		kV	6
Rated operational voltage	Conventional free air thermal current It	h		
Rated operational voltage V		IEC/EN	Α	20
Rated operational impulse voltage		UL/CSA	Α	20
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 Operational current le IEC/EN AC1/AC21A 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 Single-phase AC-3 Three-phase AC-3 110V kW 0.8 220/230V kW 5.5 500/690V kW 5.5 500/690V kW 3 380/440V kW 3 380/440V kW 3 380/440V kW 3 5.5 Single-phase AC-3 Three-phase AC-3 Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC-3 Three-phase AC-3 Single-phase AC-3A 220/230V kW 3 380/440V kW 3 3 Three-phase AC-3A Single-phase AC-3A	Rated operational voltage		V	480
10kA	Rated operational impulse voltage		kV	4
15kA A 16 25kA A 250 250 25kA A 250 25kA A 250 25kA A 25kA 25kA A 25kA 25k	Maximum fuse size for short-circuit pro	otection In (gG)		
Rated short time current Icw 1s		10kA	Α	20
Rated short time current lcw		15kA	Α	16
Three-phase AC23A Single-phase AC23A Single-p		25kA	Α	16
Conductivity	Rated short time current Icw			
Operational current le IEC/EN AC1/AC21A 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 5.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.8 220/230V kW 2.2 380/440V kW 5.5 500/690V kW 5.5 Single-phase AC23A Three-phase AC23A		1s	Α	250
AC1/AC21A 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 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 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 7.5 Single-phase AC23A	Conductivity			10/5 mA/V
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 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 3 380/440V kW 5.5 500/690V kW 7.5 Single-phase AC23A	Operational current le IEC/EN			
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 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 7.5 500/690V kW 5.5 Single-phase AC23A	AC1/AC21A			
110V A 10 220/230V A 8 380/400V A 6 660/690V A 1.5			Α	20
220/230V	AC15			
Single-phase AC23A Single-				
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 AC23A 220/230V kW 5.5 Single-phase AC23A			Α	
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 AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A				
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 AC23A 220/230V kW 5.5 Single-phase AC23A		660/690V	Α	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				
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 7.5 500/690V kW 7.5 Single-phase AC23A	Three-phase			
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				
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 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A			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	Single-phase			
380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A				
Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A				
220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A			kW	3
380/440V kW 7.5 500/690V kW 7.5 Single-phase AC23A	Three-phase			
Single-phase AC23A 500/690V kW 7.5				
Single-phase AC23A				
			kW	1.5
110\/ \k\/\/ () 8	Single-phase		1.147	0.0
		110V	kW	0.8
220/230V kW 2.5				
380/440V kW 3.7		380/440V	KVV	3.1



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Rated operational c				
	DC21A			
		48V	Α	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)			
		24V	Α	20 (1)
		48V	Α	20 (2)
		60V	Α	20 (3)
		110V	Α	10 (3)
		220V	Α	8 (4)
	DC13			()
	2010	24V	Α	20
		48V	A	16
		60V	A	12
		110V	A	1
		220V	A	0.4
		220V 440V		
Dowor diopir stier		4407	— A W	0.15
Power dissipation			VV	0.8
Mechanical features				MO
Terminals screw	ata a series de la casa		N1	M3
Tightening torque fo	r terminais max		Nm	0.5
Conductor size				
	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		<u></u>	cycles	5x10 ⁶
UL technical data				
Motor power for dire	ect-on-line control			
3.5. ponon ioi and	for three-phase motor			
	.c. theo phase motor	120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
		600V	HP	10
	for single phase motor	0000	ПР	10
	for single-phase motor	4001/	LID	0.75
		120V	HP	0.75
Analaiant and litin		240V	HP	2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			

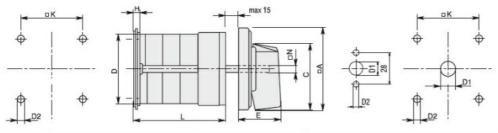
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min °C -40 max °C +70

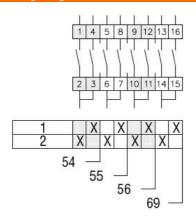
Resistance & Protection	
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	Dimensions								L Number of elements											
Selles	□A	С	ØD	ØD2	Е	Н	□K	□N	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

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