

## **7GN12510** ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 1 POLE 16A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
Product type designation			switches 7GN12
General characteristics			
Switching diagram			51 - Changeover switch 1 pole
N° of elements			1
Mounting form			O - Rear mounting with black handle
Contact characteristics			black handle
Rated insulation voltage Ui			
<u> </u>	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	А	16
	UL/CSA	Α	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	A	16
	15kA	A	10
	25kA	A	10
Rated short time current Icw	10	LA	200
Conductivity	1s	kA	 10/5 mA/V
Operational current le IEC/EN			10/5 IIIA/ V
AC1/AC21A			
A01/A021A		А	16
AC15			10
	110V	А	10
	220/230V	А	8
	380/400V	А	4
	660/690V	А	1.5
Rated operational power in AC			
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	kW	1.5
Thursday A000A	380/440V	kW	2.2
Three-phase AC23A	000/0001	1-1.1.1	2
	220/230V	kW	3
	380/440V 500/690V	kW kW	5.5 7.5
	000/090V	r v v	1.0
Single-phase AC22A			
Single-phase AC23A		k\//	0.8
Single-phase AC23A	110V 220/230V	kW kW	0.8 1.7

## Rated operational current in DC

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ENERGY AND AUTOMATION

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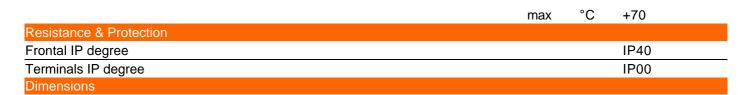
ENERGY AND ACTOMATION				
	50044			
	DC21A		_	
		48V	A	12
		60V	А	12
		110V	Α	4
		220V	А	0.6
		440V	А	0.25
	DC23A (poles in series)			
		24V	А	10 (1)
		48V	A	
				10 (2)
		60V	A	10 (3)
		110V	Α	5 (3)
		220V	A	5 (4)
	DC13			
		24V	А	12
		48V	А	10
		60V	А	8
		110V	A	1
		220V	A	0.4
<u> </u>		440V	A	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for t	erminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
	AWO - Nigid 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	max		2.0
	Conductor size (IEC) - Rigid cable		····· 2	0.5
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	3x10 <sup>6</sup>
UL technical data				
Motor power for direct	t-on-line control			
	for three-phase motor			
	•	120V	HP	1.5
		240V	HP	3
		480V	HP	50
	Construction of the second second	600V	HP	40
	for single-phase motor			
		120V	HP	0.5
		240V	HP	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
	<u></u>	max	°C	+55
	Storage temperature			
		min	°C	-40

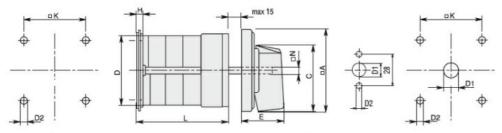
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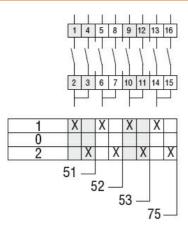
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Series	Dimensions							L Number of elements												
Series	□A	С	ØD	ØD2	Е	Н	۵K	۵N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	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		
	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		
	EAC	
	UL	
ETIM classification		
		EC001029 -
ETIM 8.0		Selector switch, complete

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