



ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR CONTROL SWITCH 1-0-2, 16A, MODULAR SERVICE COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

Product designation				Rotary cam
_				switches
Product type designation General characteristics				7GN12
Switching diagram				13 - Dahlander motor control switch 1-0-2
N° of elements				4
Mounting form				O48 - Modular service cover for 35mm din rail mounting with black handle
Contact characteristics				
Rated insulation voltage Ui		IEC/EN UL/CSA	V V	690 600
Rated impulse withstand vo			kV	6
Conventional free air therma	al current Ith	IEC/EN UL/CSA	A A	16 15
Rated operational voltage			V	480
Rated operational impulse v			kV	4
Maximum fuse size for shor	t-circuit protection In (gG)	10kA 15kA 25kA	A A A	16 10 10
Rated short time current lcv	ı	1s	А	200
Conductivity				10/5 mA/V
Operational current le IEC/E AC	EN 1/AC21A			
<u> </u>	4.5		A	16
AC	15	110V 220/230V 380/400V 660/690V	A A A	10 8 4 1.5
Rated operational power in	AC.	000/090 V		1.5
	ee-phase AC-3	220/230V 380/440V	kW kW	2.5
	1 1 100	500/690V	kW	5.5
	gle-phase AC-3	110V 220/230V 380/440V	kW kW kW	0.8 1.5 2.2
Thr	ee-phase AC23A	220/230V 380/440V	kW kW	3 5.5
		500/690V	kW	7.5
Sin	gle-phase AC23A	110V	kW	0.8





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Rated operational current in DC					
Rated operational current in DC DC21A			220/230V	kW	1.7
DC21A			380/440V	kW	3
Marchanical features	Rated operational cur				
100		DC21A		_	
1100					
Part					
Max Max					
DC23A (poles in series)					
A			440V	A	0.25
A		DC23A (poles in series)			
Conductor size (IEC) - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable Con				Α	
1100				Α	10 (2)
DC13			60V	Α	10 (3)
DC13			110V	Α	5 (3)
DC13			220V	Α	5 (4)
ABV		DC13			• • • • • • • • • • • • • • • • • • • •
ABV			24V	Α	12
Conductor size (IEC) - Flexible cable Max			48V		
110V					
Power dissipation					
Power dissipation W 0.8					
Power dissipation W					
Machanical features	Dawer dissination		440 V		
Terminals screw M3 Tightening torque for terminals max Nm 0.5				VV	0.8
Tightening torque for terminals max					MO
AWG - Rigid cable		Construction of the constr		N.L.	
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 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 3x10° 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 1.5 240V HP		terminais max		NM	0.5
Min AWG 20 Max AWG 12	Conductor size				
Max AWG 12 AWG - Flexible cable		AWG - Rigid cable			
AWG - Flexible cable min					
Max AWG 20 Max AWG 14			Max	AWG	12
Max		AWG - Flexible cable			
Conductor size (IEC) - Flexible cable			min	AWG	20
Max min mm² 0.5 Max mm² 2.5			Max	AWG	14
Max mm² 2.5		Conductor size (IEC) - Flexible cable			
Conductor size (IEC) - Rigid cable			min	mm²	0.5
Conductor size (IEC) - Rigid cable			Max	mm²	2.5
Mechanical life cycles 3x10° 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 Ambient conditions 120V HP 1 Temperature 0 Operating temperature min °C -25 max °C +55		Conductor size (IEC) - Rigid cable			
Mechanical life cycles 3x10° 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 Ambient conditions Temperature Operating temperature min °C -25 max °C +55		, , ,	min	mm²	0.5
Mechanical life cycles 3x10 ⁶ UL technical data Motor power for direct-on-line control 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 1 Ambient conditions Temperature Operating temperature min °C -25 max °C +55					
Motor power for direct-on-line control	Mechanical life		man		
Motor power for direct-on-line control for three-phase motor 120V				2,3.00	
for three-phase motor 120V HP 1.5 240V HP 3 for single-phase motor 120V HP 0.5 240V HP 0.5 240V HP 1 Ambient conditions Temperature Operating temperature min °C -25 max °C +55		t-on-line control			
120V					
240V HP 3		ioi tilico pilaso filotoi	120\/	ПD	1 5
To single-phase motor					
120V		for single phase mater	Z4UV	ПГ	J
Ambient conditions 240V HP 1		ioi singie-phase motor	10011		0.5
Ambient conditions Temperature Operating temperature min °C -25 max °C +55					
Temperature Operating temperature min °C -25 max °C +55			240V	HP	1
Operating temperature min °C -25 max °C +55					
min °C -25 max °C +55	Temperature				
max °C +55		Operating temperature			
			min	°C	-25
Storage temperature			max	°C	+55
		Storage temperature			

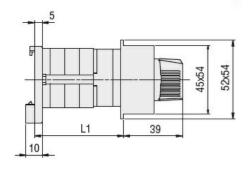


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min	°C	-40
max	°C	+70

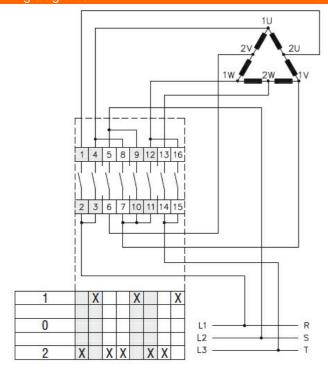
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Resistance & Protection		
Frontal IP degree		IP40
Terminals IP degree		IP00

Dimensions



Series	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



7GN1213O48

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cCSAus	
EAC	
UL	

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete