



ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR CONTROL SWITCH 1-0-2, 20A, MODULAR SERVICE COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

Product designation switches Product type designation 7GN20  General characteristics 13 - Dahlander motor control switch 1-0-2  N° of elements 4  O48 - Modular					Rotary cam
Seminary   13 - Dahlander motor control switch 1-0-2   13 - Dahlander motor control switch 1-0-2   13 - Dahlander motor control switch 1-0-2   14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	Product designation				
Switching diagram   13 - Dahlander motor control motor control switch 1-0-2     N° of elements   24     ACR + Modular service cover of 35mm din rail mounting with black handle service cover of 35mm din rail mounting with black handle bla	Product type designation	า			7GN20
Switching diagram         motor control         motor control           N° of elements         4           Mounting form         4048-Moduling of the privince down for some in mounting with probability of black handle	General characteristics				
Mounting form   Contact characteristics   Contact characteristics	Switching diagram				motor control
Mounting form   Service cover for 35mm din rail mounting with black handle   Contact characteristics	N° of elements				4
Rated insulation voltage Ui					service cover for 35mm din rail mounting with
Rated impulse withstand voltage Uimp   Rated impulse withstand voltage Uimp   Rated impulse withstand voltage Uimp   Rated operational free air thermal current Ith   Rated operational voltage   Rated operational impulse voltage   Rated short-circuit protection In (gG)   Rated short-time current Icw   Rated short time current Ic IcC/EN   Rated Operational current Ic IcC/EN   Rated Operational power in AC   Rated Operational power in		116			
Conventional free air thermal current Ith	Rated Insulation voltage	OI .	= :	V	600
IEC/EN   A   20   UI/CSA   A   20   UI/CSA   A   20   UI/CSA   A   20   V   480   A				kV	6
Rated operational impulse voltage   RV   4	Conventional free air the	rmal current Ith			
Maximum fuse size for short-circuit protection In (gG)  10kA A 20 15kA A 16 25kA A 16  Rated short time current Icw  1s kA 250  Conductivity  1s KA 250  Conductivity  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  Three-phase AC-3  Three-phase AC23A  Three-phase AC23A  Three-phase AC23A  A 20  A 10  A 20  A 10  A 10					
10kA				kV	4
1s			15kA	Α	16
Conductivity	Rated short time current	Icw	4		050
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 3 Three-phase AC23A  220/230V kW 3 380/440V kW 7.5 500/690V kW 5.5	Conductivity		18	KA	
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 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 3 220/230V kW 7.5 500/690V kW 7.5		EC/EN			10/5 111/4/ V
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 3 220/230V kW 7.5 500/690V kW 7.5				Α	20
110V	•	AC15			
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 7.5 500/690V kW 7.5			220/230V 380/400V	A A	8 6
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 7.5 500/690V kW 7.5	Rated operational power	r in AC	33373331		
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		Three-phase AC-3	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 AC-3	-		
Three-phase AC23A  220/230V kW 5  380/440V kW 7.5  500/690V kW 7.5					
220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5			380/440V	kW	3
		Three-phase AC23A	380/440V	kW	7.5
3. c L		Single-phase AC23A	300/030 (	17.4.4	1.0
110V kW 0.8 220/230V kW 2.5					





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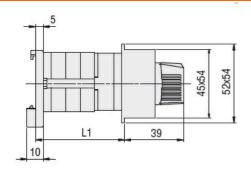
		380/440V	kW	3.7
Rated operational curre	ent in DC			
	DC21A			
		48V	Α	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)			
		24V	Α	20 (1)
		48V	Α	20 (2)
		60V	Α	20 (3)
		110V	Α	10 (3)
		220V	Α	8 (4)
	DC13			
		24V	Α	20
		48V	Α	16
		60V	Α	12
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for te	erminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
	ŭ	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 <sup>6</sup>
UL technical data			,	
Motor power for direct-	on-line control			
	for three-phase motor			
	•	120V	HP	1.5
		240V	HP	3
		480V	HP	7.5
		600V	HP	10
	for single-phase motor			
	<b>5</b> 1	120V	HP	0.75
		240V	HP	2
Ambient conditions		2.00		
Temperature				
	Operating temperature			
	operating temperature	min	°C	-25
		max	°C	+55
		IIIdA		



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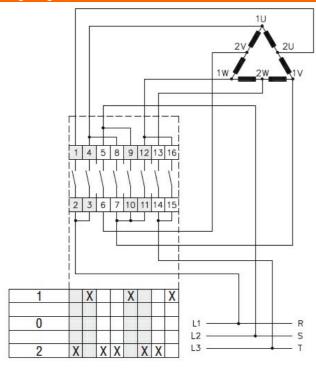
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP00

#### 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



**ENERGY AND AUTOMATION** 

# 7GN2013O48

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Certificates			
	cCSAus		
	EAC		
	UL		
ETIM classification	1		

**ETIM 8.0** 

EC001029 -Selector switch, complete