

ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR CONTROL SWITCH 1-0-2, 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM



Product designation			Rotary cam
•			switches
Product type designation General characteristics			7GN20
General characteristics			13 - Dahlander
Switching diagram			motor control
Switching diagram			switch 1-0-2
N° of elements			4
-			U - Front
Mounting form			mounting with
Č			black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	Α	20
	UL/CSA	Α	20
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	Α	20
	15kA	Α	16
	25kA	Α	16
Rated short time current lcw			
	1s	Α	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		Α	20
AC15			
	110V	Α	10
	220/230V	Α	8
	380/400V	Α	6
	660/690V	Α	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			



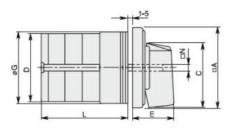
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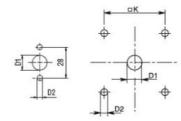
		220/230V	kW	5
		380/440V	kW	7.5
		500/690V	kW	7.5
	Single-phase AC23A	000,0001		7.0
	Olligie-priase AOZOA	110V	kW	0.8
		220/230V	kW	2.5
		380/440V	kW	3.7
Rated operational of	current in DC			
	DC21A			
		48V	Α	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.6
		440V	A	0.25
	B0004 (440 V	A	0.23
	DC23A (poles in series)		_	(.)
		24V	Α	20 (1)
		48V	Α	20 (2)
		60V	Α	20 (3)
		110V	Α	10 (3)
		220V	Α	8 (4)
	DC13			\ /
	20.0	24V	Α	20
		48V	A	16
		60V	Α	12
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical feature	S			
Terminals screw				M3
Tightening torque for	or terminals max		Nm	0.5
Conductor size	or torrinale max			0.0
Conductor Size	AMC Digid coble			
	AWG - Rigid cable		41440	20
		min	AWG	20
		Max	AWG	12
	AWG - Flexible cable			
		min	AWG	20
		Max	AWG	14
	Conductor size (IEC) - Flexible cable			
	255.5. 5.25 (125)	min	mm²	0.5
		Max	mm²	2.5
	Conductor size (IEC) Disid Li-	IVIdX	111111	۷.۷
	Conductor size (IEC) - Rigid cable		•	o =
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life			cycles	5x10 ⁶
UL technical data				
Motor power for dir	ect-on-line control			
•	for three-phase motor			
	p	120V	HP	1.5
		240V	HP	
				3
		480V	HP	7.5
		600V	HP	10
	for single-phase motor			
	for single-phase motor			

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		240V	HP	2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			_
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
Frontal IP degree				IP40
Terminals IP degree			•	IP00
Dimensions				

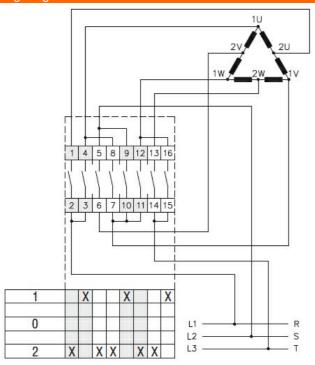




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Carina	Dimensions							L Number of elements													
Series	□A	С	ØD	ØD1	ØD2	Е	ØG	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN20	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN25	48	39.5	43	12	5	26.5	38	36	6	40.5	54.1	67.7	81.3	94.9	108.5	122.1	135.7	147.3	162.9	176.5	190.1
7GN32	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN40	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN63	65	53	62	14	5	34.5	58.5	48	7	50.3	68.4	86.5	104.6	122.7	140.8	158.9	177	195.1	213.2	231.3	249.4
7GN125	90	70.5	86	16	6	41.5	84	68	9	67.3	96.4	125.5	154.6	183.7	220.3	249.4	278.5	307.6	336.7	365.8	394.9

Wiring diagrams







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Certifications and con	npliance	
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		EC001105 - Off- load switch