

# ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR CONTROL SWITCH 1-0-2, 25A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM



Product designation			Rotary cam switches
Product type designation			7GN25
General characteristics			
Switching diagram			13 - Dahlander motor control switch 1-0-2
N° of elements			4
Mounting form			U - Front mounting with black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	Α	25
	UL/CSA	Α	30
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	Α	25
	15kA	Α	25
	25kA	Α	25
Rated short time current Icw	1s	kA	400
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		Α	25
AC15			
	110V	Α	16
	220/230V	A	12
	380/400V	A	8
Data dan anational association AO	660/690V	Α	2
Rated operational power in AC			
Three-phase AC-3	000/0001	1444	E E
	220/230V 380/440V	kW kW	5.5
	380/440V 500/690V	kW	7.5 7.5
Single-phase AC-3	300/0907	- KVV	ι.υ
Single-phase AC-3	110V	kW	1.5
	220/230V	kW	3
	380/440V	kW	5.5
		1 \ V V	



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		220/230V	kW	6.5
		380/440V	kW	11
		500/690V	kW	11
	Single-phase AC23A			
		110V	kW	1.5
		220/230V	kW	3.7
<del></del>		380/440V	kW	5.5
Rated operational curr				
	DC21A	40\/	^	0.5
		48V	A	25
		60V 110V	A	25 4
		220V	A A	0.7
	DC22A (nolog in corice)	2200	A	0.7
	DC23A (poles in series)	24V	Α	25 (1)
		48V	A	25 (1) 25 (2)
		60V	A	
				25 (3)
		110V 220V	A A	12 (3)
	DC42	220V	A	10 (4)
	DC13	24V	Α	25
		48V	A	20
		60V	A	16
		110V 220V	A	1.5
Power dissipation		2200	— A W	1.1
Mechanical features			VV	1.1
Terminals screw				M3.5
Terminals screw Tightening torque for t	erminals max		Nm	M3.5 0.8
Terminals screw Tightening torque for t Conductor size	erminals max		Nm	M3.5 0.8
Tightening torque for t			Nm	
Tightening torque for t	erminals max  AWG - Rigid cable	min	Nm	0.8
Tightening torque for t		min Max		
Tightening torque for t	AWG - Rigid cable		AWG	20
Tightening torque for t			AWG AWG	0.8 20 10
Tightening torque for t	AWG - Rigid cable	Max	AWG	20
Tightening torque for t	AWG - Rigid cable	Max min	AWG AWG	0.8 20 10 20
Tightening torque for t	AWG - Rigid cable  AWG - Flexible cable	Max min	AWG AWG	0.8 20 10 20
Tightening torque for t	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max	AWG AWG AWG AWG	0.8 20 10 20 12
Tightening torque for t	AWG - Rigid cable  AWG - Flexible cable	Max min Max min	AWG AWG AWG AWG	0.8 20 10 20 12 0.5
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Tightening torque for t	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	0.8 20 10 20 12 0.5 4
Tightening torque for to Conductor size  Mechanical life	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	0.8 20 10 20 12 0.5 4
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Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	AWG AWG AWG AWG mm² mm² cycles	0.8  20 10  20 12  0.5 4  0.5 4  5x10 <sup>6</sup>
Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max min Max  120V 240V	AWG AWG AWG AWG mm² mm² cycles	0.8  20 10  20 12  0.5 4  0.5 4  5x10 <sup>6</sup>
Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	Max min Max min Max  min Max  120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	0.8  20 10  20 12  0.5 4  0.5 4  5x10 <sup>6</sup>
Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  -on-line control for three-phase motor	Max min Max min Max  min Max  120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	0.8  20 10  20 12  0.5 4  0.5 4  5x10 <sup>6</sup>
Tightening torque for to Conductor size  Mechanical life UL technical data	AWG - Rigid cable  AWG - Flexible cable  Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable  -on-line control for three-phase motor	Max min Max min Max  min Max  120V 240V 480V 600V	AWG AWG AWG AWG mm² mm² cycles	0.8  20 10  20 12  0.5 4  0.5 4  5x10 <sup>6</sup> 3 5 10 15

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### ENERGY AND AUTOMATION

Temperature

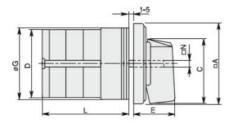
### Operating temperature

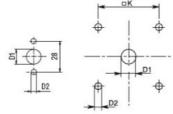
	min	°C	-25	
	max	°C	+55	
Storage temperature				
	min	°C	-40	
	max	°C	+70	

#### Resistance & Protection

Frontal IP degree	IP40
Terminals IP degree	IP00

#### **Dimensions**

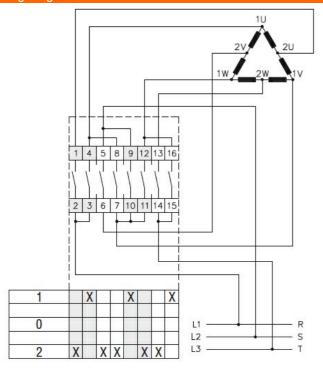




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Series	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



#### Certifications and compliance

#### Compliance



**ENERGY AND AUTOMATION** 

#### 7GN2513U

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	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
ETIMA A LANGE CONTRACTOR	

ETIM classification

ETIM 8.0 EC001105 - Off-load switch