

General characteristics

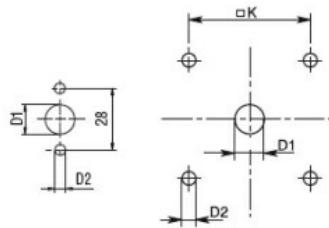
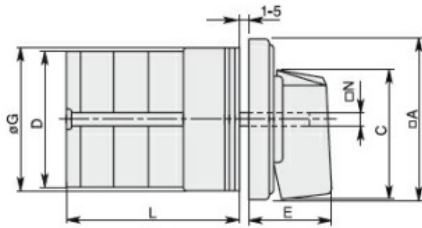
Switching diagram	13 - Dahlander motor control switch 1-0-2
N° of elements	4
Mounting form	U - Front mounting with black handle

Contact characteristics

Rated insulation voltage U_i	IEC/EN	V	690	
	UL/CSA	V	600	
Rated impulse withstand voltage U_{imp}		kV	6	
Conventional free air thermal current I_{th}	IEC/EN	A	16	
	UL/CSA	A	15	
Rated operational voltage		V	480	
Rated operational impulse voltage		kV	4	
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	16	
	15kA	A	10	
	25kA	A	10	
Rated short time current I_{cw}	1s	kA	200	
	Conductivity			10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		A	16
	AC15			
	110V	A	10	
	220/230V	A	8	
	380/400V	A	4	
	660/690V	A	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	
	380/440V	kW	2.2	
	Three-phase AC23A			
	220/230V	kW	3	
	380/440V	kW	5.5	
	500/690V	kW	7.5	
Single-phase AC23A	110V	kW	0.8	
	220/230V	kW	1.7	
	380/440V	kW	3	
	Rated operational current in DC			
DC21A		48V	A	12

	60V	A	12
	110V	A	4
	220V	A	0.6
	440V	A	0.25
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DC23A (poles in series)	24V	A	10 (1)
	48V	A	10 (2)
	60V	A	10 (3)
	110V	A	5 (3)
	220V	A	5 (4)
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DC13	24V	A	12
	48V	A	10
	60V	A	8
	110V	A	1
	220V	A	0.4
	440V	A	0.15
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Power dissipation		W	0.8
Mechanical features			
Terminals screw			M3
Tightening torque for terminals max		Nm	0.5
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Conductor size			
AWG - Rigid cable	min	AWG	20
	Max	AWG	12
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AWG - Flexible cable	min	AWG	20
	Max	AWG	14
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Conductor size (IEC) - Flexible cable	min	mm ²	0.5
	Max	mm ²	2.5
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Conductor size (IEC) - Rigid cable	min	mm ²	0.5
	Max	mm ²	2.5
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Mechanical life		cycles	3x10 ⁶
UL technical data			
Motor power for direct-on-line control			
for three-phase motor	120V	HP	1.5
	240V	HP	3
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for single-phase motor	120V	HP	0.5
	240V	HP	1
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Ambient conditions			
Temperature			
Operating temperature	min	°C	-25
	max	°C	+55
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Storage temperature	min	°C	-40
	max	°C	+70
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Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP00

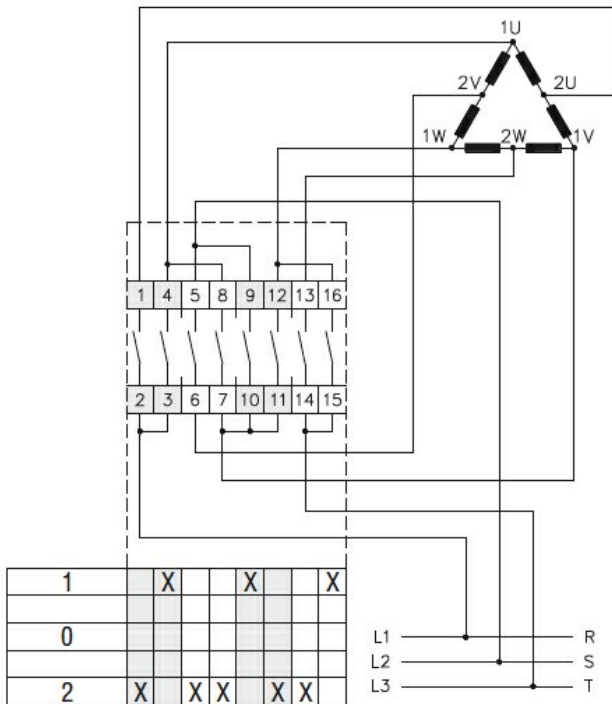
Dimensions



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

Series	Dimensions									L Number of elements											
	□A	C	ØD	ØD1	ØD2	E	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

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

EC001029 -
Selector switch,
complete