

General characteristics

Switching diagram	19 - Dahlander motor control switch 0-1-2
N° of elements	4
Mounting form	P25 - Plastic enclosure with red/yellow 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	63
	UL/CSA	A	60
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	63
	15kA	A	63
	25kA	A	63
	50kA	A	63
	63kA	A	63
Rated short time current I_{cw}	1s	kA	1600
	Conductivity		10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		A 63
	AC15		
Rated operational power in AC			
	Three-phase AC-3		
	220/230V	kW	11
	380/440V	kW	18.5
	500/690V	kW	18.5
	Single-phase AC-3		
	110V	kW	3.7
	220/230V	kW	6.5
	380/440V	kW	11.5
	Three-phase AC23A		
220/230V	kW	12.5	
380/440V	kW	30	
500/690V	kW	30	
Single-phase AC23A			
110V	kW	3.7	
220/230V	kW	7.5	
380/440V	kW	12.5	
Rated operational current in DC			

DC21A	48V	A	63
	60V	A	50
	110V	A	8
	220V	A	1
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DC23A (poles in series)	24V	A	50 (1)
	48V	A	50 (2)
	60V	A	50 (3)
	110V	A	25 (3)
	220V	A	15 (4)
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DC13	24V	A	63
	48V	A	40
	60V	A	28
	110V	A	3.3
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Power dissipation		W	3.4

Mechanical features

Terminals screw			M5
Tightening torque for terminals max		Nm	2

Conductor size

AWG - Rigid cable	min	AWG	14
	Max	AWG	6
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AWG - Flexible cable	min	AWG	14
	Max	AWG	8
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Conductor size (IEC) - Flexible cable	min	mm ²	2.5
	Max	mm ²	10
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Conductor size (IEC) - Rigid cable	min	mm ²	2.5
	Max	mm ²	16

Mechanical life		cycles	5x10 ⁶
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UL technical data

Motor power for direct-on-line control for three-phase motor	120V	HP	7.5
	240V	HP	15
	480V	HP	25
	600V	HP	25
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for single-phase motor	120V	HP	3
	240V	HP	10

Ambient conditions

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

Resistance & Protection

Frontal IP degree			IP65
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Terminals IP degree

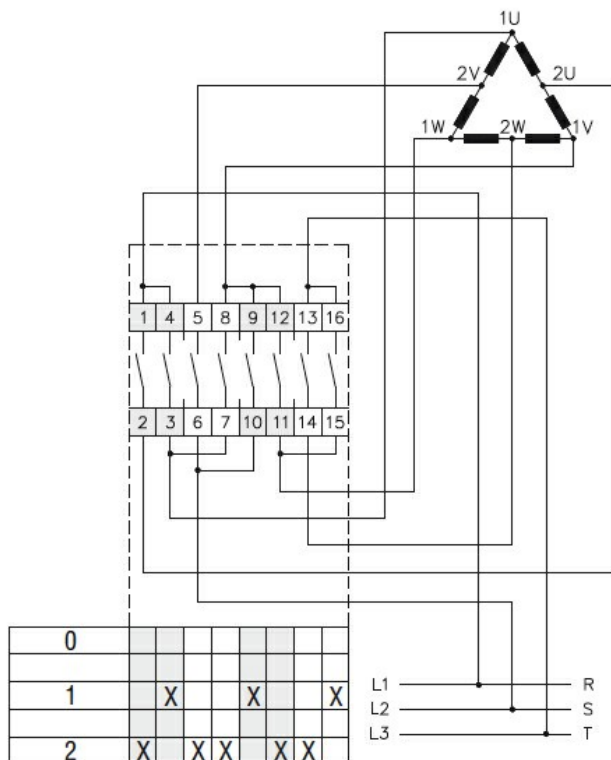
IP00

Dimensions

Series	Enclosure size	Number of elements		Dimensions										Cable entry	Protection degree
		L	L1	A	A1	C	C1	D	F	M	N	L	L1		
7GN12Ⓟ	75x75Ⓟ	1-2	3-4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN20Ⓟ		1-2	3-4												
7GN25Ⓟ		1	2-3												
7GN12Ⓟ	90x90	1-3	4-6	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN20Ⓟ		1-3	4-6												
7GN25Ⓟ		1-2	3-4												
7GN32		1	2-3												
7GN40		1	2-3												
7GN12	110x110	1-4	5-8	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN20		1-4	5-8												
7GN25		1-3	4-5												
7GN32Ⓟ		1-2	3-5												
7GN40Ⓟ		1-2	3-5												
7GN63		1-2	3-4												
7GN32Ⓟ	125x175	1-2	3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21 2xPG11	IP65
7GN40Ⓟ		1-2	3-4												
7GN63Ⓟ		1-2	3-4												
7GN125		1	2												
7GN32	198x248	-	1-7	198	248	190-210	140-180	5.5	32	35	104	-	166.5	6xPG16- 21-29	IP65
7GN40		-	1-7												
7GN63Ⓟ		-	1-6												
7GN125ⓅⓅ		-	1-4												

- Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).
- Ⓟ D Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

Wiring diagrams



Certifications and compliance

Compliance

- IEC/EN/BS 60947-1
- IEC/EN/BS 60947-3
- IEC/EN/BS 60947-5-1

Certificates

EAC

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete