

General characteristics

Switching diagram	13 - Dahlander motor control switch 1-0-2
N° of elements	4
Mounting form	O - Rear 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	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	
			10/5 mA/V	
Conductivity			10/5 mA/V	
Operational current I_e IEC/EN	AC1/AC21A	A	63	
	AC15			
	110V	A	32	
	220/230V	A	25	
	380/400V	A	15	
	660/690V	A	4	
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
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Mechanical life		cycles	5x10 ⁶

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			IP40
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UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete