DC Disconnect Switch

DM Series

DM100203M0AEDSG

Disconnect switch

Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	Vdc	1100	1100
Rated operational current	le	A	1100	5
Rated operational voltage (second rating)	Ue	Vdc	1000	1000
Rated operational current (second rating)	le	A	20	1000
Rated operational voltage (third rating)	Ue	Vdc	750	750
Rated operational current (third rating)	le	A	32	18
Rated operational voltage (fourth rating)	Ue	Vdc	700	700
Rated operational current (fourth rating)	le	A	40	20
Rated operational voltage (fifth rating)	Ue	Vdc	500	
Rated operational current (fifth rating)	le	A	50	-
Rated operational voltage (sixth rating)	Ue	Vdc	-	-
Rated operational current (sixth rating)	le	A		-
Rated thermal current	lth	A	5	0
DC Poles		Nr.	6	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	Vdc	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated short-time withstand current (1 s)	lcw	A	780	
Rated short-circuit making capacity	Icm	kA	1,4	
Power loss per layer at 20 A / 50 A	leni	W	0,2/1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	50	
Mechanical characteristics	5. 4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		•
Type of mounting			Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator	
Layers		Nr.	8	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainle	ss steel
Cross-section of flexible/solid wires	Max.	mm ²	2)	6
ross-section of nexible/solid wires		AWG	2x 10	
Cross-section of wires with fork lug	Max.	mm² AWG	1x 16 1x 6	
Minimum required fine wire cross-section: IEC 60947-1, table 9				
Terminal screws type			M4 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10%	
Net weight		g	495	
Protection degree IEC 529 EN 60529				
To the terminal			IP20	
Ambient conditions				
Pollution degree ins.				2
Operational ambient temperature		°C	-30 ÷ +50	
Storage ambient temperature		0°	-30 ÷ +85	
Damp heat test IEC 60068-2-30		-	90-100% RH at +55 °C	

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Motor driven actuator

CE

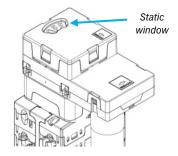
Motor characteristics					
Rated operational voltage	Ue	Vdc	24 ±5%		
Rated operational current	le	А	0,4		
Stall current	Max.	A	1,4		
Free-load current		A	0,10		
Free-load speed	Max.	rpm	20 ±3		
Rated load current		Α	0,15		
Rated load speed		rpm	17,6 ±2		
Output power at Max. efficiency		W	1,55		
Terminal type			Solder (supplied with wiring)		
Pre-soldered cables length		mm	300		
Protection degree to the terminals			IP00*		
Operating features					
Rotation direction		Clockwise (90deg)			
Position (status indicator)		Rotary disc with static window at 09:00 o'clock			

9

* Pre soldered wiring with heat-shrink sheath

Status indicator





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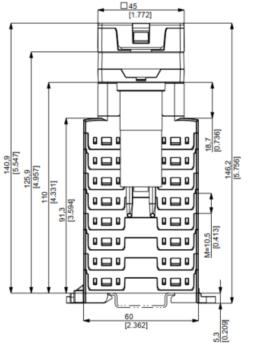
Product image

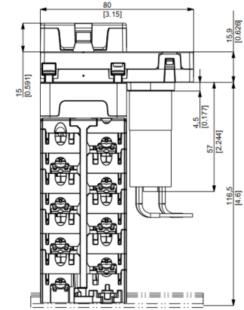




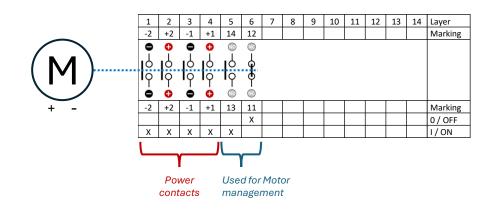
Screwdriver orientation for terminal fixing

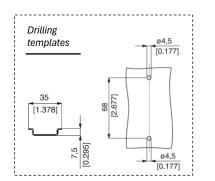


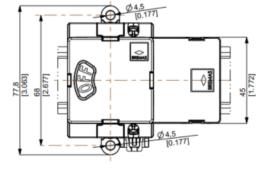




Electrical Diagram







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