DC Disconnect Switch

DX Series

DX120305M0AWDSG

Disconnect switch

Technical data according to IEC 60947-3:2021 Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	Vdc	1500	1500
Rated operational current	le	A	10	5
Rated operational voltage (second rating)	Ue	Vdc	1250	1250
	le	A		
Rated operational current (second rating) Rated operational voltage (third rating)	Ue	A V dc	20	8
	le	A	1000	1000
Rated operational current (third rating) Rated operational voltage (fourth rating)	Ue	A V dc	30 800	12
		A		800
Rated operational current (fourth rating)	le	A V dc	45	17
Rated operational voltage (fifth rating)	Ue		-	700
Rated operational current (fifth rating)	le	A V dc	-	25
Rated operational voltage (sixth rating)	Ue		-	-
Rated operational current (sixth rating)	le	A	-	-
Rated thermal current	lth	A	50	
DC Poles		Nr.	10	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	V dc	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated short-time withstand current (1 s)	Icw	A	780	
Rated short-circuit making capacity	Icm	kA	1,4	
Power loss per layer at 20 A / 50 A		W	0,2 / 1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	50	
Mechanical characteristics				
Type of mounting			Double mounting Fixing with 4 screws 36x36 mm Back-side for DIN rail or 2 screws	
Layers		Nr.	12	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainless	steel
Cross-section of flexible/solid wires	Max.	mm² AWG	2x 6 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 – P	H2
Terminal screws tightening torque		Nm	1,7 ±10%	
Fixing screws tightening torque		Nm	1,1±10%	
Panel thickness	Max.	mm	4	
Net weight		g	620	
Protection degree IEC 529 EN 60529		<u> </u>		
To the terminal			IP2()
			IF20	,
Ambient conditions			-	
Dellution destres ins			2	
5				
Pollution degree ins. Operational ambient temperature		°C	-30 ÷ +	
5		℃ ℃		-85

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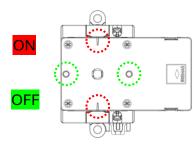
Motor driven actuator

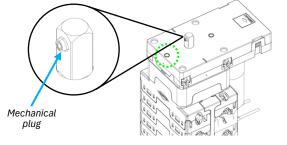
CE

Motor characteristics					
Rated operational voltage	Ue	Vdc	24 ±5%		
Rated operational current	le	Α	0,4		
Stall current	Max.	Α	1,4		
Free-load current		А	0,10		
Free-load speed	Max.	rpm	20 ±3		
Rated load current		А	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 (disconnect switch)		OFF at 09:00 and 03:00 o'clock			
		ON at 12:00 and 06:00 o'clock			
Position (status indicator)		Rotary disc with static window at 09:00 o'clock			

* Pre soldered wiring with heat-shrink sheath

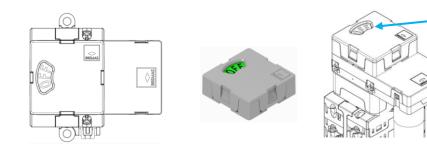
Position (disconnect switch)





Static window

Position (status indicator)



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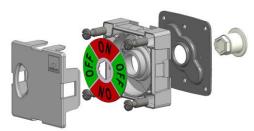
DC Disconnect Switch

DX Series

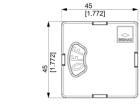
DX120305M0AWDSG

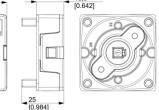






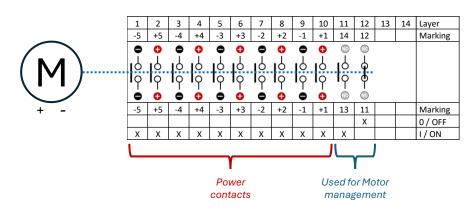






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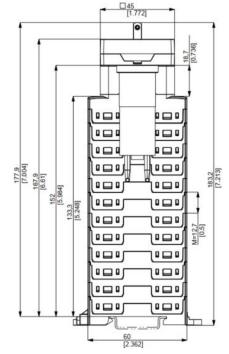
Electrical Diagram

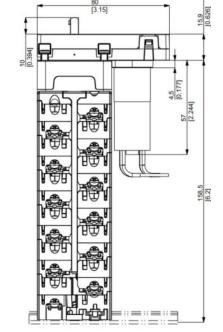


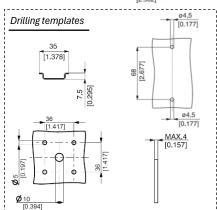


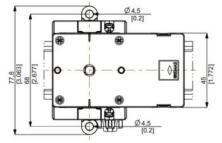
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Dimensions









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