# **DC Disconnect Switch**

## **DX** Series

## DX120305M0AEDSG

#### **Disconnect switch**

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
Rated operational current (second rating)	le	A	20	8
Rated operational voltage (third rating)	Ue	Vdc	1000	1000
Rated operational current (third rating)	le	Α	30	12
Rated operational voltage (fourth rating)	Ue	Vdc	800	800
Rated operational current (fourth rating)	le	Α	45	17
Rated operational voltage (fifth rating)	Ue	Vdc	-	700
Rated operational current (fifth rating)	le	А	-	25
Rated operational voltage (sixth rating)	Ue	Vdc	-	-
Rated operational current (sixth rating)	le	А	-	-
Rated thermal current	lth	Α	50	
DC Poles		Nr.	10	
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	Α	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	Α	50	
Mechanical characteristics				
Type of mounting			Base mounting Back-side for DIN rail or 2 screws fixin For direct operation With pre-mounted status indicator	
Layers		Nr.	12	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainles	s 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 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10%	
Net weight		g	620	
Protection degree IEC 529 EN 60529		-		
To the terminal			IP20	
Ambient conditions				
Pollution degree ins.			2	
Operational ambient temperature		°C	-30 ÷ +50	
		°C	-30 ÷ +85	
Storage ambient temperature			-30 ÷ +85 90-100% RH at +55 °C	

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### Motor driven actuator

CE

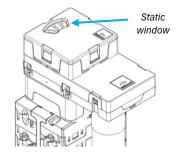
Motor characteristics				
Rated operational voltage	Ue	Vdc	24 ±5%	
Rated operational current	le	A	0,4	
Stall current	Max.	A	1,4	
Free-load current		А	0,10	
Free-load speed	Max.	rpm	20 ±3	
Rated load current		А	0,15	
Rated load speed		rpm	17,6 ±2	
Output power at Max. efficiency		W	1,55	
Terminal type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

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\* Pre soldered wiring with heat-shrink sheath

#### Status indicator





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Product image

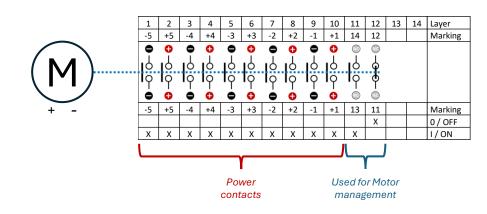
# DX120305M0AEDSG





Screwdriver orientation for terminal fixing

# Electrical Diagram



#### Dimensions 45 80 [3.15] [1.772] 15 [0.591] 4.5 [0.177] 57 [2.244] 18.7 182.9 [7.201] [6.61] 152 [5.64] 7.409 <u>58,</u> 133,3 0.413 Π 60 [2.362] ------囹 Drilling ø4,5 templates 0 [0.177] 68 12.677 3.063 \$ 68 [2.677] 35 [1.378] [0.295] ιO ø4,5 [0.177]

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