## DC Disconnect Switch

#### **DX** Series

#### DX120302M0AWDSG

#### **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
Rated operational current (second rating)	le	A	20	8
Rated operational voltage (third rating)	Ue	Vdc	1000	1000
Rated operational current (third rating)	le	A	30	12
Rated operational voltage (fourth rating)	Ue	Vdc	800	800
Rated operational current (fourth rating)	le	A	45	17
Rated operational voltage (fifth rating)	Ue	Vdc	-	700
Rated operational current (fifth rating)	le	A	-	25
Rated operational voltage (sixth rating)	Ue	Vdc	-	-
Rated operational current (sixth rating)	le	Α	-	-
Rated thermal current	lth	Α		50
DC Poles		Nr.	4	
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)	Icw	Α	780	
Rated short-circuit making capacity	lcm	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	А	50	
Mechanical characteristics				
Type of mounting			Double mounting Fixing with 4 screws 36x36 mm Back-side for DIN rail or 2 screws	
Layers		Nr.	6	
Terminal screws orientation			Hea	id up
External metal parts (screws, shaft)			Stainle	ss steel
Cross-section of flexible/solid wires	Max.	mm <sup>2</sup> 2x 6		
		AWG	2>	: 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
<i></i>			1,7±10%	
Terminal screws tightening torque		Nm	1,7:	±10%
		Nm Nm	· · ·	±10% ±10%
Terminal screws tightening torque Fixing screws tightening torque Panel thickness	Max.		1,1	
Fixing screws tightening torque Panel thickness	Max.	Nm	1,1	±10%
Fixing screws tightening torque Panel thickness Net weight	Max.	Nm mm	1,1	±10% 4
Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529	Max.	Nm mm	1,1:	±10% 4
Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal	Max.	Nm mm	1,1:	±10% 4 30
Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions	Max.	Nm mm	1,1: 4	±10% 4 30 20
Fixing screws tightening torque Panet thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions Pollution degree ins.	Max.	Nm mm g	1,1: 4	±10% 4 30 20 2
Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions	Max.	Nm mm	1,1: 4 IF	±10% 4 30 20

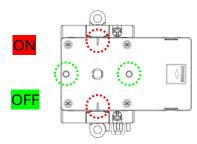
# CE

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		A	0,10		
Free-load speed	Max.	rpm	20 ±3		
Rated load current		A	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

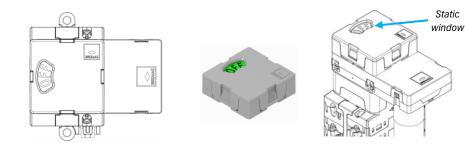
#### Position (disconnect switch)

Motor driven actuator



# Mechanical plug

#### Position (status indicator)



#### Bremas Ersce S.p.A.

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## **DC Disconnect Switch**

#### **DX** Series

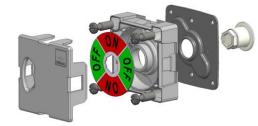
#### DX120302M0AWDSG



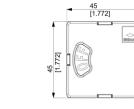
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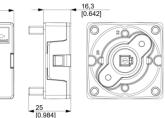
#### Product image



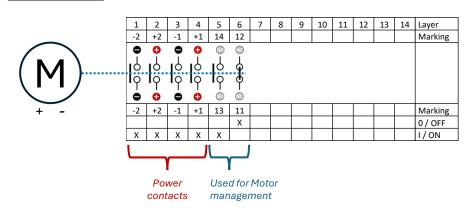


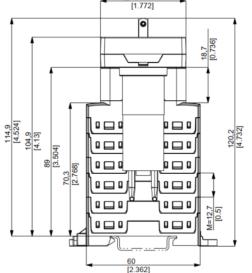




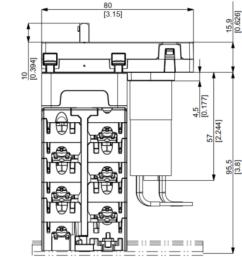


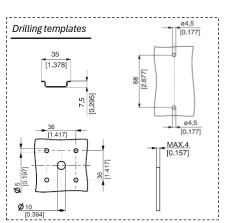
#### Electrical Diagram

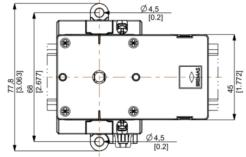




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#### Dimensions