# DC Disconnect Switch

#### **DX** Series

#### DX120301M0AVDMG

#### **Disconnect switch**

Technical data according to IEC 60947-3:2021 Utilization category			PV(1 (DC 21P)	PV2
	Ue	Vdc	PV1 (DC-21B)	
Rated operational voltage		V dC	1500	1500
Rated operational current	le		10	5
Rated operational voltage (second rating)	Ue	V dc	1250	1250
Rated operational current (second rating)	le	A	20	8
Rated operational voltage (third rating)	Ue	V dc	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	A	-	-
Rated thermal current	lth	A	50	
DC Poles		Nr.	2	
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)	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			Double mounting Fixing with nut by M16x1,5 mm hole Back-side for DIN rail or 2 screws	
Layers		Nr.	4	
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 nut tightening torque		Nm	2 ±10%	
Panel thickness	Max.	mm	4	
Net weight		g	370	
Protection degree IEC 529 EN 60529		<u> </u>		
5			IP20	)
To the terminal		1	11 20	•
Ambient conditions			0	
Ambient conditions Pollution degree ins.		*	2	50
Ambient conditions Pollution degree ins. Operational ambient temperature		°C ∺C	-30 ÷ +	
To the terminal Ambient conditions Pollution degree ins. Operational ambient temperature Storage ambient temperature Damp heat test IEC 60068-2-30		⊃° ⊃°		-85

# BREMAS

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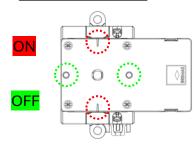
#### Motor driven actuator

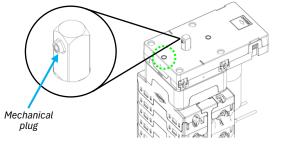
CE

Motor characteristics					
Rated operational voltage	Ue	Vdc	24 ±5%		
Rated operational current	le	Α	0,4		
Stall current	Max.	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

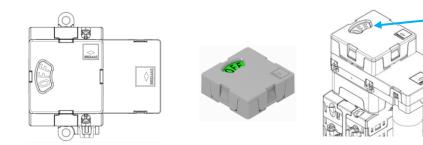
#### Position (disconnect switch)





Static window

#### Position (status indicator)



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# **DC Disconnect Switch**

### **DX** Series

Product image

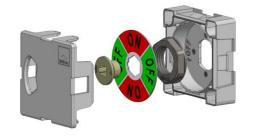
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Dimensions





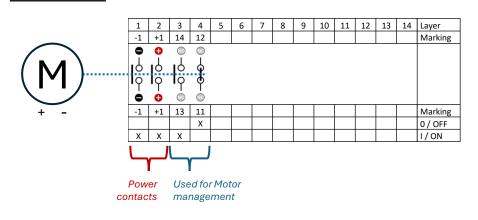


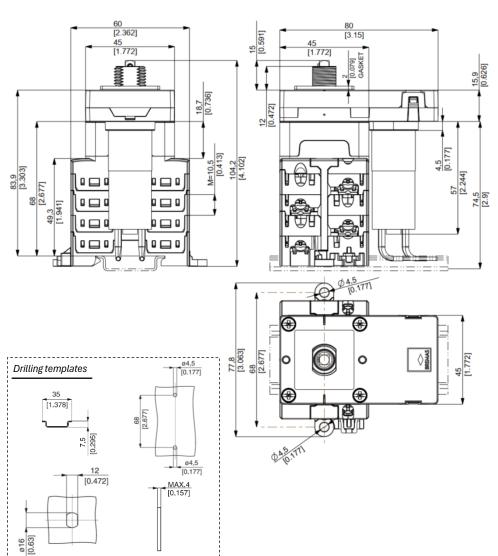




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#### Electrical Diagram





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