# DC Disconnect Switch

## **DX** Series

## DX120301MUAVDMG

#### **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 Rated operational current	le	A	1500	1500
	Ue	A V dc	15	6
Rated operational voltage (second rating)			1250	1250
Rated operational current (second rating)	le	A	25	10
Rated operational voltage (third rating)	Ue	Vdc	1100	1100
Rated operational current (third rating)	le	A	30	12
Rated operational voltage (fourth rating)	Ue	V dc	1000	1000
Rated operational current (fourth rating)	le	A	40	16
Rated operational voltage (fifth rating)	Ue	Vdc	800	800
Rated operational current (fifth rating)	le	A	50	20
Rated operational voltage (sixth rating)	Ue	Vdc	-	700
Rated operational current (sixth rating)	le	A	-	30
Rated thermal current	lth	A	50	
DC Poles		Nr.	2	
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	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	A	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.	mm <sup>2</sup> 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				
To the terminal			IP20	)
			11 20	
Ambient conditions				
Ambient conditions Pollution degree ins.			2	
Pollution degree ins. Operational ambient temperature		°C	-30 ÷ +	
Pollution degree ins.		°C ℃		-85

# BREMAS BETTER SWITCHES

Bremas Ersce S.p.A. Via Castellazzo 9 – 20040 Cambiago (MI) Tel +39 02 95651611 Fax +39 02 95651639 www.bremas.it info@bremas.it ISO 9001 Certified Quality System

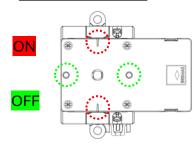
#### Motor driven actuator

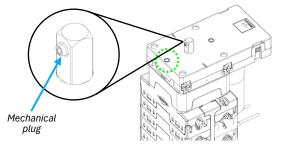
CE

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		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

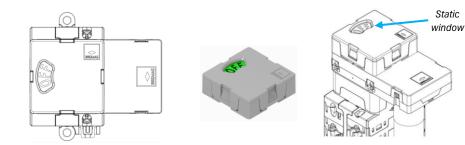
#### Position (disconnect switch)





Static

#### Position (status indicator)



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# **DC Disconnect Switch**

# **DX** Series

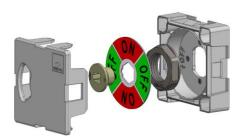
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#### Product image





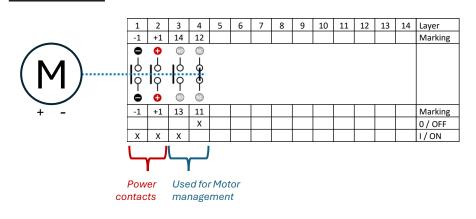




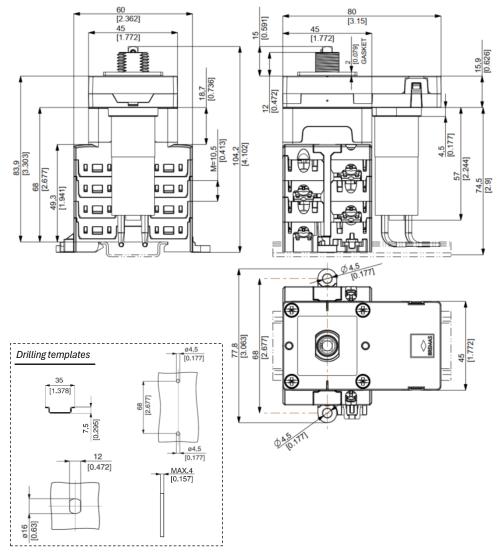


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#### Electrical Diagram



#### Dimensions



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