# DX120304M0AEDSG

# BREMAS BETTER SWITCHES

# Bremas Ersce S.p.A.

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ISO 9001 Certified Quality System

#### **Disconnect switch**

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Disconnect switch				•	
Technical data according to IEC 60947-3:2021					
Utilization category			PV1 (DC-21B)	PV2	
Rated operational voltage	Ue	V dc	1500	1500	
Rated operational current	le	Α	10	5	
Rated operational voltage (second rating)	Ue	V dc	1250	1250	
Rated operational current (second rating)	le	Α	20	8	
Rated operational voltage (third rating)	Ue	V dc	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	V dc	-	700	
Rated operational current (fifth rating)	le	Α	-	25	
Rated operational voltage (sixth rating)	Ue	V dc	-	-	
Rated operational current (sixth rating)	le	Α	-	-	
Rated thermal current	lth	Α	50		
DC Poles		Nr.	8		
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			Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator		
Layers		Nr.	10		
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	M4 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10%		
Net weight		g	555		
Protection degree IEC 529 EN 60529					
To the terminal			IP20	1	
Ambient conditions			11 20		
Pollution degree ins.			2		
Operational ambient temperature		°C	-30 ÷ +	50	
Storage ambient temperature		•°C	-30 ÷ +50 -30 ÷ +85		
Damp heat test IEC 60068-2-30			-30 ÷ +85 90-100% RH at +55 °C		
Damp near lest IEC 00000-2-30			90-100% KH at +55 °C		

#### Motor driven actuator

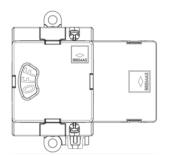
Motor characteristics				
Rated operational voltage	Ue	V dc	24 ±5%	
Rated operational current	le	Α	0,4	
Stall current	Max.	Α	1,4	
Free-load current		Α	0,10	
Free-load speed	Max.	rpm	20 ±3	
Rated load current		A	0,15	
Rated load speed		rpm	17,6 ±2	
Output power at Max. efficiency		W	1,55	
Terminal type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

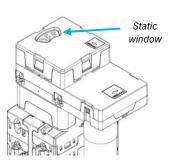
<sup>\*</sup> Pre soldered wiring with heat-shrink sheath

#### Status indicator



Rotary disc





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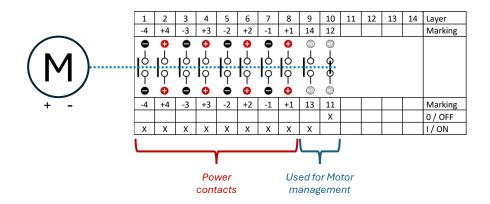
# Product image



#### Screwdriver orientation for terminal fixing



#### Electrical Diagram



#### Dimensions

