DC Disconnect Switch

DX Series

DX120305MUAEDSG

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

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	Ie	A	15	6
Rated operational voltage (second rating)	Ue	V dc	1250	1250
Rated operational current (second rating)	Ie	A	25	10
Rated operational voltage (third rating)	Ue	V dc	1100	1100
Rated operational current (third rating)	Ie	A	30	12
Rated operational voltage (fourth rating)	Ue	V dc	1000	1000
Rated operational current (fourth rating)	Ie	A	40	16
Rated operational voltage (fifth rating)	Ue	V dc	800	800
Rated operational current (fifth rating)	Ie	A	50	20
Rated operational voltage (sixth rating)	Ue	V dc	-	700
Rated operational current (sixth rating)	Ie	A	-	30
Rated thermal current	Ith	A	50	
DC Poles		Nr.	10	
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)	Icw	A	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	A	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.	12	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainless steel	
Cross-section of flexible/solid wires	Max.	mm^2 AWG	2x 6 2x 10	
Cross-section of wires with fork lug	Max.	mm^2 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	
Storage ambient temperature		°C	-30 ÷ +85	
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	

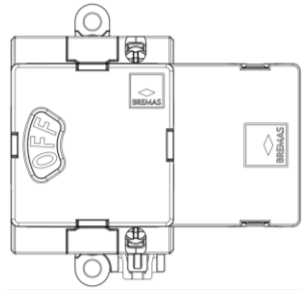
Motor driven actuator

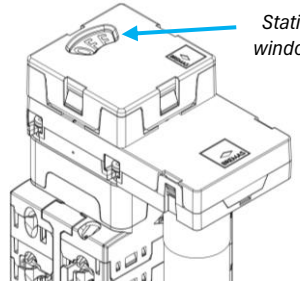
Motor characteristics			
Rated operational voltage	Ue	V dc	24 ±5%
Rated operational current	Ie	A	0,4
Stall current	Max.	A	1,4
Free-load current		A	0,10
Free-load speed	Max.	rpm	20 ±3
Rated load current		A	0,15
Rated load speed		rpm	17,6 ±2
Output power at Max. efficiency		W	1,55
Terminal type			Solder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

** Pre soldered wiring with heat-shrink sheath*

Status indicator

Rotary disc





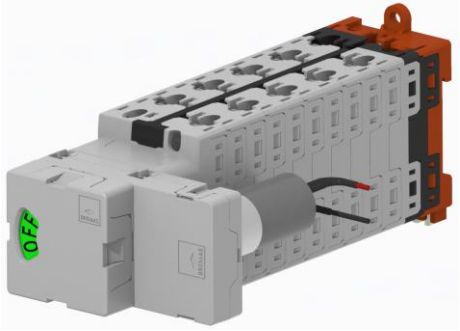
DC Disconnect Switch

DX Series

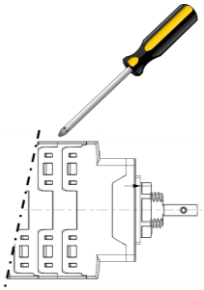
DX120305MUAEDSG

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

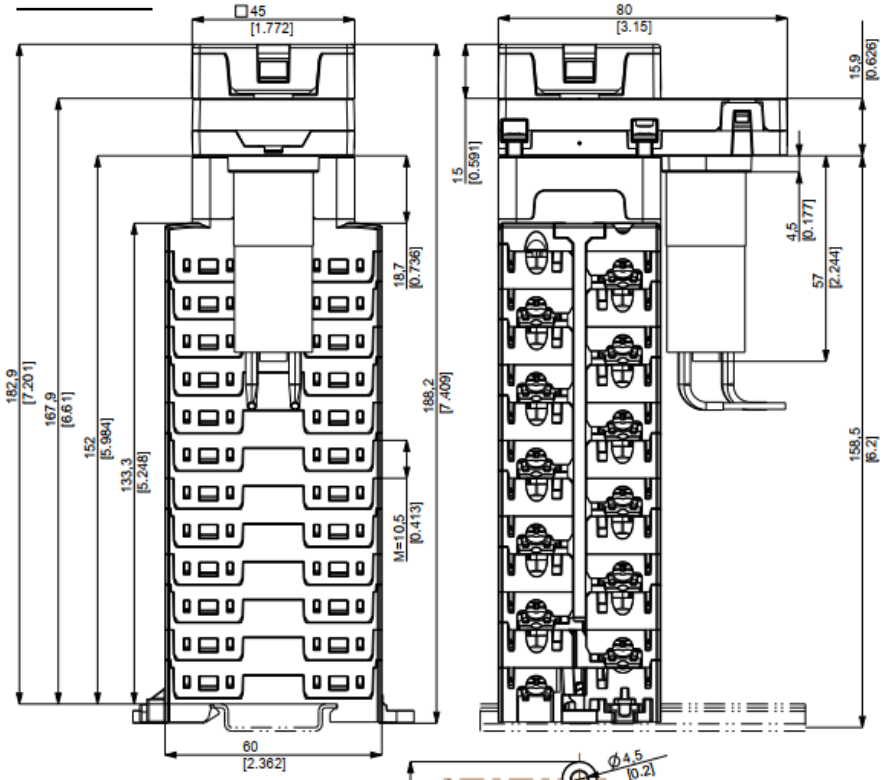
Product image



Screwdriver orientation for terminal fixing



Dimensions



Electrical Diagram

1	2	3	4	5	6	7	8	9	10	11	12	13	14	Layer
-5	+5	-4	+4	-3	+3	-2	+2	-1	+1	14	12			Marking
-5	+5	-4	+4	-3	+3	-2	+2	-1	+1	13	11			Marking
											X			0 / OFF
X	X	X	X	X	X	X	X	X	X	X				I / ON

Power contacts

Used for Motor management

Drilling templates