DC Disconnect Switch

DX Series

DX150305MPAVDMG

Disconnect switch

Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	Vdc	1500	1500
Rated operational current	le	A	30	1500
Rated operational voltage (second rating)	Ue	Vdc	1000	1000
	le	A		
Rated operational current (second rating)	Ue	A V dc	60	25
Rated operational voltage (third rating)				
Rated operational current (third rating)	le	A	-	-
Rated operational voltage (fourth rating)	Ue	Vdc	-	-
Rated operational current (fourth rating)	le	A	-	-
Rated operational voltage (fifth rating)	Ue	Vdc	-	-
Rated operational current (fifth rating)	le	A	-	-
Rated operational voltage (sixth rating)	Ue	Vdc	-	-
Rated operational current (sixth rating)	le	A	-	-
Rated thermal current	lth	A	60	
DC Poles		Nr.	10	
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	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	63	
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.	12	
Terminal screws orientation			Head	up
External metal parts (screws, shaft)			Stainles	s steel
Cross-section of flexible/solid wires	Max.	mm ²	2x 6 2x 10	
		AWG		0
			1x 16 1x 6	
Cross-section of wires with fork lug	Max.	mm² AWG		
ů	Max.			
Minimum required fine wire cross-section: IEC 60947-1, table 9	Max.			6
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type	Max.		1x	6 PH2
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque	Max.	AWG	1x (M4 – F	6 PH2 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque	Max.	AWG	1x (M4 – F 1,7 ±1	6 PH2 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque Panel thickness		AWG Nm Nm	1x (M4 - F 1,7 ±1 1,1 ±1	5 PH2 0% 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque Panel thickness Net weight		AWG Nm Nm mm	1x (M4 - F 1,7 ±1 1,1 ±1 4	5 PH2 0% 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529		AWG Nm Nm mm	1x (M4 - F 1,7 ±1 1,1 ±1 4	5 PH2 0% 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal		AWG Nm Nm mm	1x (M4 - F 1,7 ± 1 1,1 ± 1 4 620	5 PH2 0% 0%
Cross-section of wires with fork lug Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions Pollution degree ins		AWG Nm Nm mm	1x (M4 - F 1,7 ± 1 1,1 ± 1 4 62(IP2	5 PH2 0% 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions Pollution degree ins.		AWG Nm Nm g	1x1 M4-F 1,7+1 1,1+1 4 620 IP2 2	S PH2 0% 0%
Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type Terminal screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions		AWG Nm Nm mm	1x (M4 - F 1,7 ± 1 1,1 ± 1 4 62(IP2	3 2H2 00% 00% 0 0 ₽

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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

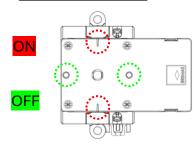
Motor driven actuator

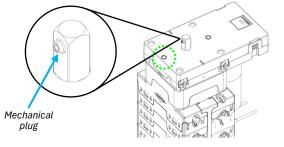
CE

Motor characteristics					
Rated operational voltage	Ue	Vdc	24 ±5%		
Rated operational current	le	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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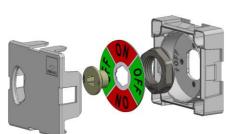
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DX150305MPAVDMG





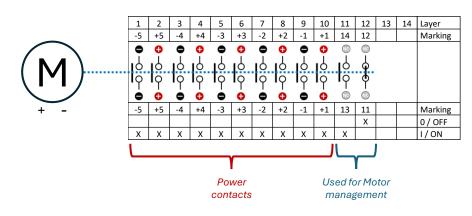


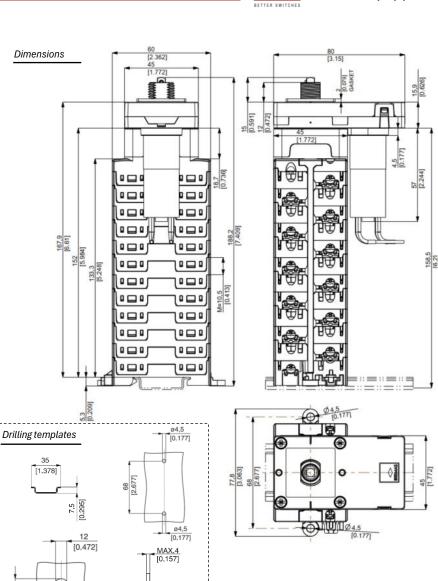




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Electrical Diagram





Bremas Ersce S.p.A. Via Castellazzo 9 - 20040 Cambiago (MI)

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Tel +39 02 95651611 Fax +39 02 95651639 www.bremas.it info@bremas.it ISO 9001 Certified Quality System

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