

DC Disconnect Switch

DX Series



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ISO 9001 Certified Quality System

DX150301MUAEDSG



Disconnect switch

Technical data according to IEC 60947-3:2015/A2 Annex D				
Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1500	1500
Rated operational current	Ie	A	20	8
Rated operational voltage (second rating)	Ue	V dc	1300	1300
Rated operational current (second rating)	Ie	A	25	10
Rated operational voltage (third rating)	Ue	V dc	1250	1250
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	50	20
Rated operational voltage (fifth rating)	Ue	V dc	-	800
Rated operational current (fifth rating)	Ie	A	-	30
Rated operational voltage (sixth rating)	Ue	V dc	-	700
Rated operational current (sixth rating)	Ie	A	-	40
Rated thermal current	Ith	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)	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.	4	
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	370	
Protection degree IEC 529 EN 60529				
To the terminal			IP20	
Ambient conditions				
Pollution degree ins.			2	
Operational ambient temperature		°C	-25 ÷ +70	
Storage ambient temperature		°C	-40 ÷ +85	
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	

Motor driven actuator

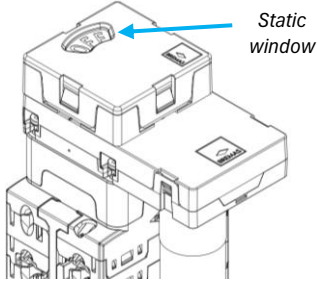
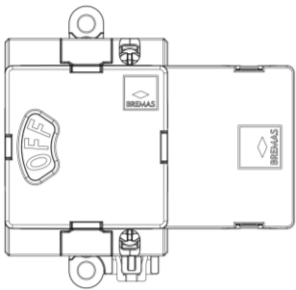
Motor characteristics			
Rated operational voltage	Ue	V dc	24 ±5%
Rated operational current	Ie	A	0,4
Stall current	Max.	A	1,4
Free-load current		A	0,10
Free-load speed	Max.	rpm	20 ±3
Rated load current		A	0,15
Rated load speed		rpm	17,6 ±2
Output power at Max. efficiency		W	1,55
Terminal type			Solder (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



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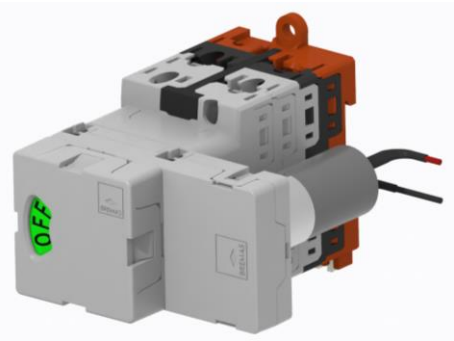
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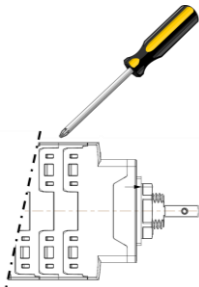


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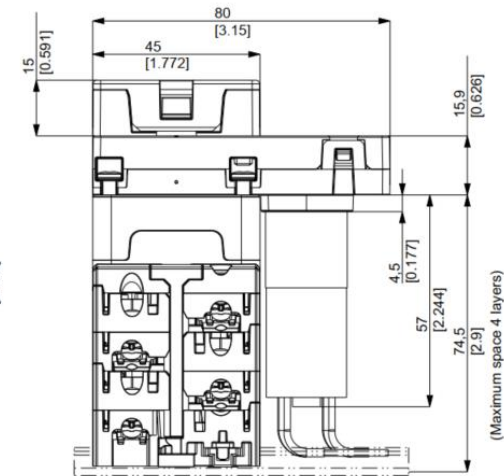
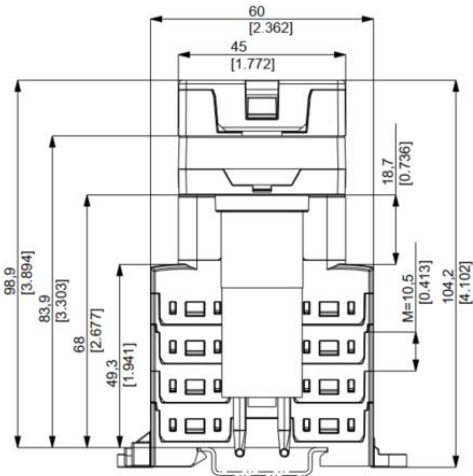
Product image



Screwdriver orientation for terminal fixing



Dimensions



Electrical Diagram



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

Power contacts
Used for Motor management

Drilling templates

