

DC Disconnect Switch

DM Series

DM100201E0ADRND



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ISO 9001 Certified Quality System

Technical data according to IEC 60947-3:2015/A2 Annex D

Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1100	1100
Rated operational current	Ie	A dc	12	5
Rated operational voltage (second rating)	Ue	V dc	1000	1000
Rated operational current (second rating)	Ie	A dc	20	10
Rated operational voltage (third rating)	Ue	V dc	750	750
Rated operational current (third rating)	Ie	A dc	32	18
Rated operational voltage (fourth rating)	Ue	V dc	700	700
Rated operational current (fourth rating)	Ie	A dc	40	20
Rated operational voltage (fifth rating)	Ue	V dc	500	-
Rated operational current (fifth rating)	Ie	A dc	50	-
Rated operational voltage (sixth rating)	Ue	V dc	-	-
Rated operational current (sixth rating)	Ie	A dc	-	-
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 standard distribution boards (45 mm window) With pre-mounted knob
Layers		Nr.	3
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%
Actuator operation force		Nm	1,5
Panel thickness	Max.	mm	-
Net weight		g	145

Protection degree IEC 529 EN 60529

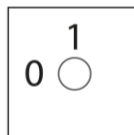
To the terminal			IP20
With product mounted on panel			-

Ambient conditions

Pollution degree ins.			2
Operational ambient temperature		°C	-40 ÷ +85
Storage ambient temperature		°C	-40 ÷ +85
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C



Position



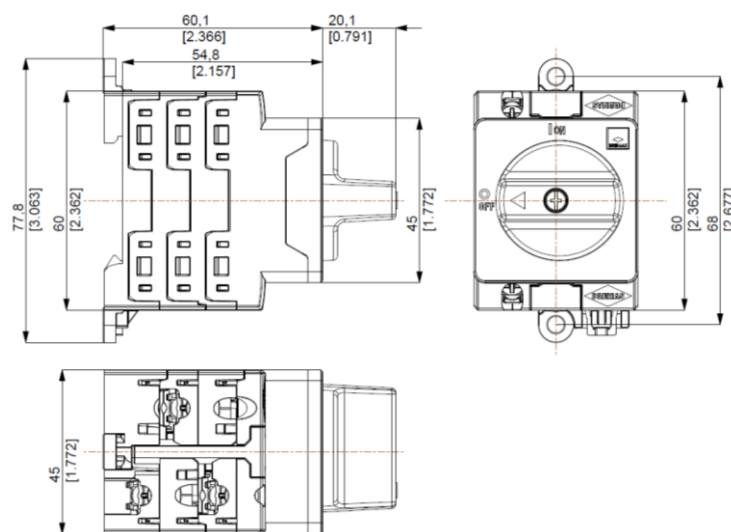
Screwdriver orientation
for terminal fixing



Electrical Diagram

Layer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Marking	-1	+1														
			E													
			M													
			P													
			T													
			Y													
Marking	-1	+1														
0 / OFF																
I / ON	X	X														

Dimensions



Drilling templates

