

DC Disconnect Switch
DM Series

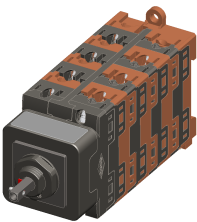


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ISO 9001 Certified Quality System

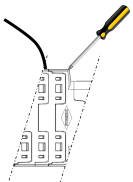
DM10020420AVMVU5



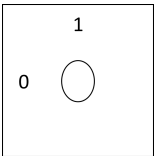
Technical data according to IEC 60947-3:2015/A2 AnnexD			
Utilization category		PV1 (DC21B)	PV2
Rated operational voltage	Ue	V dc	1100
Rated operational current	Ie	A dc	12
Rated operational voltage (second rating)	Ue	V dc	1000
Rated operational current (second rating)	Ie	A dc	20
Rated operational voltage (third rating)	Ue	V dc	750
Rated operational current (third rating)	Ie	A dc	32
Rated operational voltage (fourth rating)	Ue	V dc	700
Rated operational current (fourth rating)	Ie	A dc	40
Rated operational voltage (fifth rating)	Ue	V dc	500
Rated operational current (fifth rating)	Ie	A dc	50
Rated thermal current	Ith	A	50
DC Poles		Nr.	8
Rated conditional short-circuit current			5kA
Rated insulation voltage	Ui	V dc	1.500
Rated impulse withstand voltage	Uimp	kV	8
Rated short-time withstand current (1s)	Icw	A	780
Rated short-circuit making capacity	Icm	kA	1,4
Power loss per layer at 20A/50A		W	0,2/1,25
Max fuse size for short circuit protection	gPV	A	50
Mechanical characteristics			
Type of mounting			Double mounting (Head Up Screws) panel with M16 L=12mm fixing /Back for DIN rail
Layers		Nr.	8
Screwdriver orientation for terminals			Head up
External metal parts (Screws, shaft)			Stainless steel
Terminal capacity with flexible/solid wires	Max	mm ² AWG	2x6 2x10
Terminal capacity with fork terminals	Max	mm ² AWG	1x16 1x6
Thread dimensions for terminal screws			M4
Terminal screws tightening torque		Nm	1,7 ± 10%
Tightening torque panel mounting nut		Nm	2+/-10%
Tightening torque M3 screw in the actuator		Nm	0,6 ± 10%
Panel tickness		mm	Max 4
Shaft protrusion		mm	27
Actuator operation forces		Nm	1,5
Net Weight		g	380
Protection degree IEC 529 EN 60529			
Switch IP terminal			IP20
Switch IP rating mounted on panel			IP66
Ambient conditions			
Pollution degree ins.			2
Operational ambient temperature			-40°C ÷ +70°C
Storage ambient temperature			-40°C ÷ +85°C
Damp heat test IEC60068-2-30			90-100% RH at +55 °C
Knob			UV resistant



Screwdriver orientation
for terminals



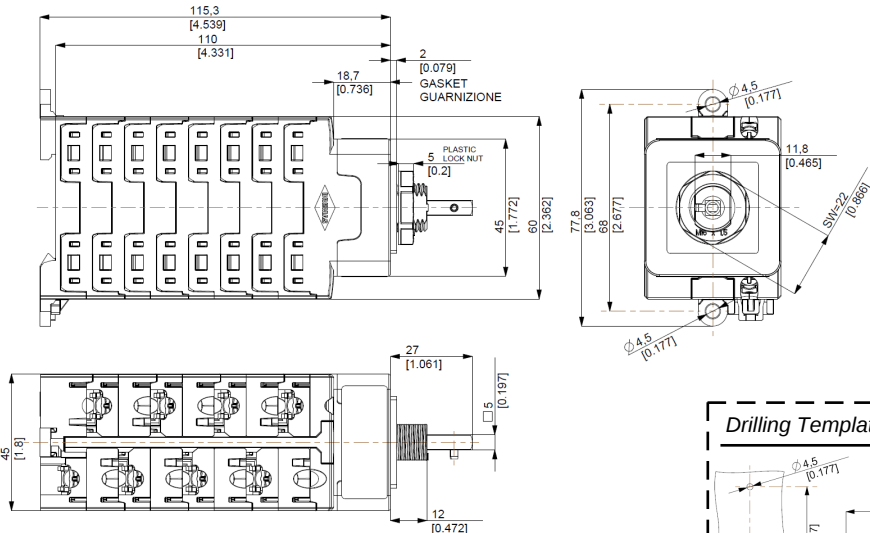
Positions



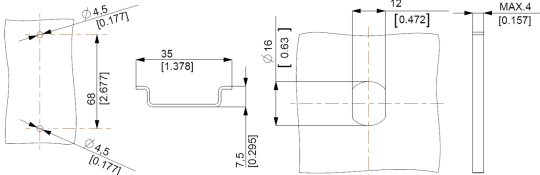
Electrical Diagram

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

Dimensions



Drilling Templates



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