

DC Disconnect Switch
DP Series



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ISO 9001 Certified Quality System

DP10012220ALMVU5



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

Utilization category			PV1 (DC21B)	PV2
Rated operational voltage	Ue	V dc	1000	1000
Rated operational current	Ie	A dc	12	4
Rated operational voltage (second rating)	Ue	V dc	750	750
Rated operational current (second rating)	Ie	A dc	25	10
Rated operational voltage (third rating)	Ue	V dc	600	600
Rated operational current (third rating)	Ie	A dc	32	16
Rated thermal current	Ith	A	50	
DC Poles		Nr.	4	
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

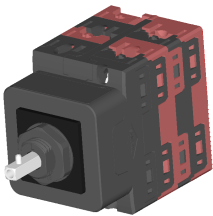
Type of mounting			Panel mounting Head Up Screws M16 L=12mm fixing
Layers		Nr.	4
Screwdriver orientation for terminals			Head up
External metal parts (Screws, shaft)			Stainless steel
Terminal capacity with flexible/solid wires	Max	mm² AWG	2x6 2x10
Terminal capacity with fork terminals	Max	mm² AWG	1x16 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	230

Protection degree IEC 529 EN 60529

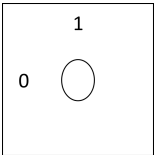
Switch IP terminal			IP20
Switch IP rating mounted on panel			IP66

Ambient conditions

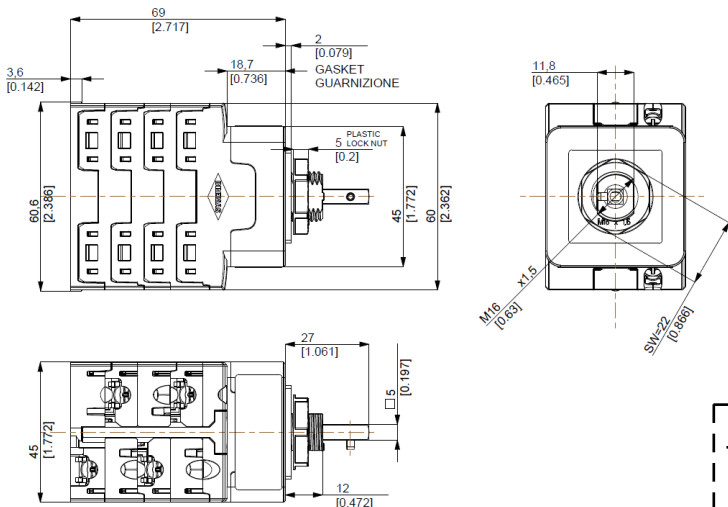
Pollution degree ins.			2
Operational ambient temperature			-40°C ÷ +70°C
Storage ambient temperature			-40°C ÷ +85°C
Damp heat test IEC60068-2-30			90-100% RH at +55 °C
Knob			UV resistant



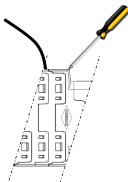
Positions



Dimensions



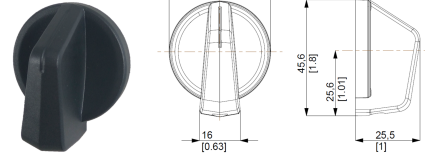
Screwdriver orientation for terminals



Electrical Diagram

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

Knob



Drilling Templates

