DC Disconnect Switch
DP Series

DP10012320AERW4

CE   TÜV 500   CCC

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

			PV1 (DC21B)	PV2
Utilization category				
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.	6	
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			Base mounting (Head Up Screws) Direct operation/ back for DIN rail (with mounted plate and/or kno
Layers		Nr.	6
Screwdriver orientation for terminals			Head up
External metal parts (Screws, shaft)			Stainless steel
Terminal capacity with flexible/solid wires	Max	mm²	2x6
		AWG	2x10
Terminal capacity with fork terminals	Max	mm²	1x16
		AWG	1x6
Thread dimensions for terminal screws			M4
Terminal screws tightening torque		Nm	1,7 ± 10%
Actuator operation forces		Nm	1,5
Net Weight		g	320

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

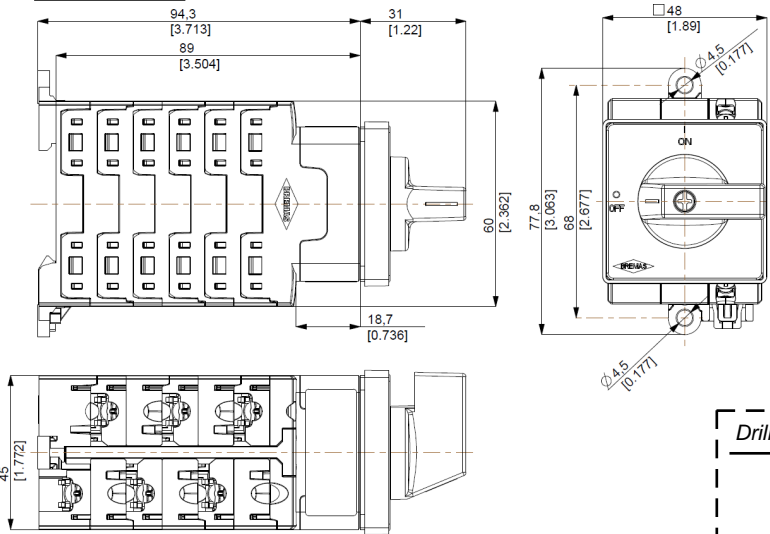### Screwdriver orientation for terminals

Knob

□48 [1.89]   31 [1.22]

Positions

1

0
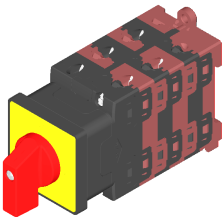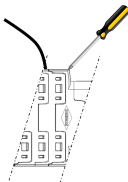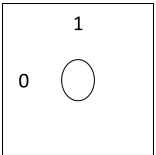
Electrical Diagram

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

Dimensions

94,3 [3.713]   31 [1.22]   89 [3.504]   □48 [1.89]   Ø 4.5 [0.177]   60 [2.362]   77,8 [3.063]   68 [2.677]   18,7 [0.736]   Ø 4.5 [0.177]   45 [1.772]

Drilling Templates

Ø 4.5 [0.177]   35 [1.378]   68 [2.677]   Ø 4.5 [0.177]   7,5 [0.295]