

DC Disconnect Switch  
DP Series



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ISO 9001 Certified Quality System

DP10012220ALML5

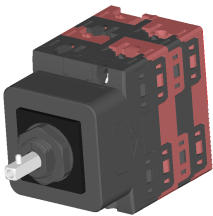


| Technical data according to IEC 60947-3:2015/A2 AnnexD |      |             |          |
|--------------------------------------------------------|------|-------------|----------|
| Utilization category                                   |      | PV1 (DC21B) | PV2      |
| Rated operational voltage                              | Ue   | V dc        | 1000     |
| Rated operational current                              | Ie   | A dc        | 12       |
| Rated operational voltage (second rating)              | Ue   | V dc        | 750      |
| Rated operational current (second rating)              | Ie   | A dc        | 25       |
| Rated operational voltage (third rating)               | Ue   | V dc        | 600      |
| Rated operational current (third rating)               | Ie   | A dc        | 32       |
| 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       |

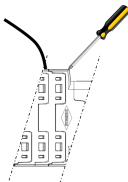
| Mechanical characteristics                  |     |                                                    |                 |
|---------------------------------------------|-----|----------------------------------------------------|-----------------|
| Type of mounting                            |     | Panel mounting Head Up Screws M16<br>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 | mm <sup>2</sup><br>AWG                             | 2x6<br>2x10     |
| Terminal capacity with fork terminals       | Max | mm <sup>2</sup><br>AWG                             | 1x16<br>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                                                  | 245             |

| Protection degree IEC 529 EN 60529 |  |  |      |
|------------------------------------|--|--|------|
| Switch IP terminal                 |  |  | IP20 |
| Switch IP rating mounted on panel  |  |  | IP66 |

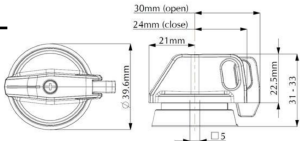
| Ambient conditions              |  |  |                      |
|---------------------------------|--|--|----------------------|
| Pollution degree ins.           |  |  | 2                    |
| Operational ambient temperature |  |  | -40°C ÷ +70°C        |
| Storage ambient temperature     |  |  |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



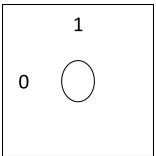
Screwdriver orientation  
for terminals



Knob



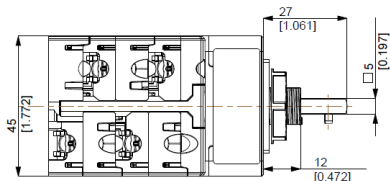
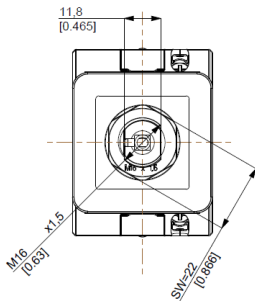
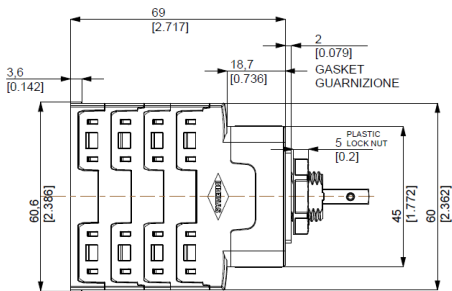
Positions



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  |   |   |   |   |   |    |    |    |    |    |    |    |

Dimensions



Drilling Templates

