

DC Disconnect Switch
DX Series

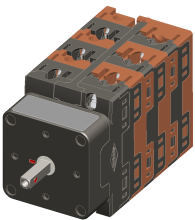


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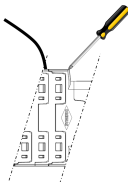
DX12030320ATRV4



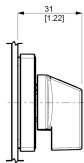
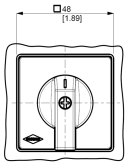
| Technical data according to IEC 60947-3:2015/A2 AnnexD |      |                                                               |                      |
|--------------------------------------------------------|------|---------------------------------------------------------------|----------------------|
| Utilization category                                   |      | PV1 (DC21B)                                                   | PV2                  |
| Rated operational voltage                              | Ue   | V dc                                                          | 1500                 |
| Rated operational current                              | Ie   | A dc                                                          | 10                   |
| Rated operational voltage (second rating)              | Ue   | V dc                                                          | 1250                 |
| Rated operational current (second rating)              | Ie   | A dc                                                          | 20                   |
| Rated operational voltage (third rating)               | Ue   | V dc                                                          | 1000                 |
| Rated operational current (third rating)               | Ie   | A dc                                                          | 30                   |
| Rated operational voltage (fourth rating)              | Ue   | V dc                                                          | 800                  |
| Rated operational current (fourth rating)              | Ie   | A dc                                                          | 45                   |
| Rated operational voltage (fifth rating)               | Ue   | V dc                                                          | 700                  |
| Rated operational current (fifth rating)               | Ie   | A dc                                                          | 25                   |
| 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                                       |      | Panel mounting Head Up Screws with 4x36 fixing tapping screws |                      |
| Layers                                                 |      | Nr.                                                           | 6                    |
| Screwdriver orientation for terminals                  |      |                                                               | Head up              |
| External metal parts (Screws, shaft)                   |      |                                                               | Stainless steel      |
| Terminal capacity with flexible/solid wires            | Max  | mm²<br>AWG                                                    | 2x6<br>2x10          |
| Terminal capacity with fork terminals                  | Max  | mm²<br>AWG                                                    | 1x16<br>1x6          |
| Thread dimensions for terminal screws                  |      |                                                               | M4                   |
| Terminal screws tightening torque                      |      | Nm                                                            | 1,7 ± 10%            |
| Tightening torque panel mounting screws                |      | Nm                                                            | 1,1+/-10%            |
| Tightening torque M3 screw in the actuator             |      | Nm                                                            | 0,6 ± 10%            |
| Panel tickness                                         |      | mm                                                            | Max 4                |
| Shaft protrusion                                       |      | mm                                                            | 18,2                 |
| 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 |



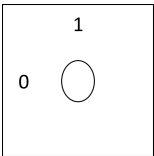
Screwdriver orientation for terminals



Knob



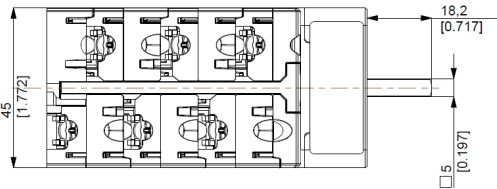
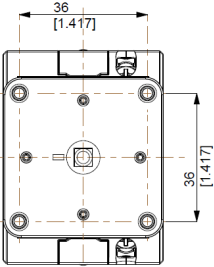
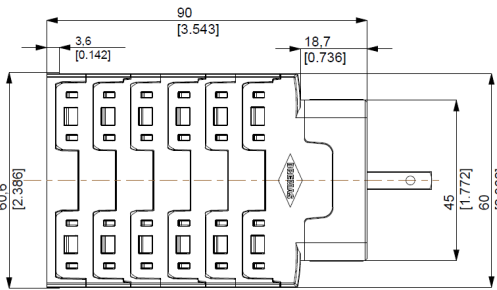
Positions



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



Drilling Templates

