

DC Disconnect Switch  
DX Series



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ISO 9001 Certified Quality System

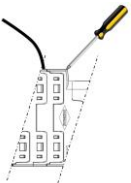
DX120301EUADRLE



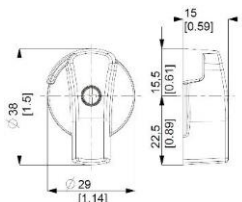
| Technical data according to IEC 60947-3:2015/A2 AnnexD |      |                        |                                                                                                                                           |      |
|--------------------------------------------------------|------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------|
| Utilization category                                   |      |                        | PV1 (DC21B)                                                                                                                               | PV2  |
| Rated operational voltage                              | Ue   | V dc                   | 1500                                                                                                                                      | 1500 |
| Rated operational current                              | Ie   | A dc                   | 15                                                                                                                                        | 6    |
| Rated operational voltage (second rating)              | Ue   | V dc                   | 1250                                                                                                                                      | 1250 |
| Rated operational current (second rating)              | Ie   | A dc                   | 25                                                                                                                                        | 10   |
| Rated operational voltage (third rating)               | Ue   | V dc                   | 1100                                                                                                                                      | 1100 |
| Rated operational current (third rating)               | Ie   | A dc                   | 30                                                                                                                                        | 12   |
| Rated operational voltage (fourth rating)              | Ue   | V dc                   | 1000                                                                                                                                      | 1000 |
| Rated operational current (fourth rating)              | Ie   | A dc                   | 40                                                                                                                                        | 16   |
| Rated operational voltage (fifth rating)               | Ue   | V dc                   | 800                                                                                                                                       | 800  |
| Rated operational current (fifth rating)               | Ie   | A dc                   | 50                                                                                                                                        | 20   |
| Rated operational voltage (sixth rating)               | Ue   | V dc                   | -                                                                                                                                         | 700  |
| Rated operational current (sixth rating)               | Ie   | A dc                   | -                                                                                                                                         | 30   |
| Rated thermal current                                  | Ith  | A                      | 50                                                                                                                                        |      |
| DC Poles                                               |      | Nr.                    | 2                                                                                                                                         |      |
| Rated conditional short-circuit current                |      | kA                     | 5                                                                                                                                         |      |
| Rated insulation voltage                               | Ui   | V dc                   | 1500                                                                                                                                      |      |
| 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.<br>Back-side for DIN rail or 2 screws fixing,<br>for standard distribution boards (45 mm<br>window). With pre-mounted knob |      |
| Layers                                                 |      | Nr.                    | 3                                                                                                                                         |      |
| Screwdriver orientation for terminals                  |      |                        | Head up                                                                                                                                   |      |
| External metal parts (screws, shaft)                   |      |                        | Stainless steel                                                                                                                           |      |
| Cross-section of flexible/solid wires                  | Max  | mm <sup>2</sup><br>AWG | 2x 6<br>2x 10                                                                                                                             |      |
| Cross-section of wires with fork lug                   | Max  | mm <sup>2</sup><br>AWG | 1x 16<br>1x 6                                                                                                                             |      |
| Screws thread dimensions                               |      |                        | M4                                                                                                                                        |      |
| Terminal screws tightening torque                      |      | Nm                     | 1,7 ±10%                                                                                                                                  |      |
| Actuator operation force                               |      | Nm                     | 1,5                                                                                                                                       |      |
| Net weight                                             |      | g                      | 149                                                                                                                                       |      |
| Protection degree IEC 529 EN 60529                     |      |                        |                                                                                                                                           |      |
| To the terminal                                        |      |                        | IP20                                                                                                                                      |      |
| With product mounted on panel                          |      |                        | ----                                                                                                                                      |      |
| Ambient conditions                                     |      |                        |                                                                                                                                           |      |
| Pollution degree ins.                                  |      |                        | 2                                                                                                                                         |      |
| Operational ambient temperature                        |      | °C                     | -40 ÷ +70                                                                                                                                 |      |
| Storage ambient temperature                            |      | °C                     | -40 ÷ +85                                                                                                                                 |      |
| Damp heat test IEC60068-2-30                           |      |                        | 90-100% RH at +55 °C                                                                                                                      |      |



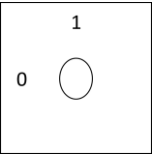
Screwdriver orientation  
for terminals



Knob



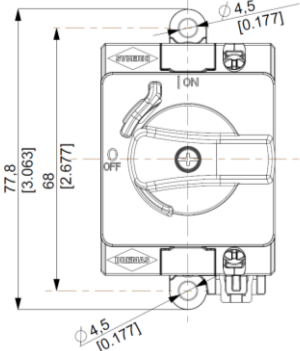
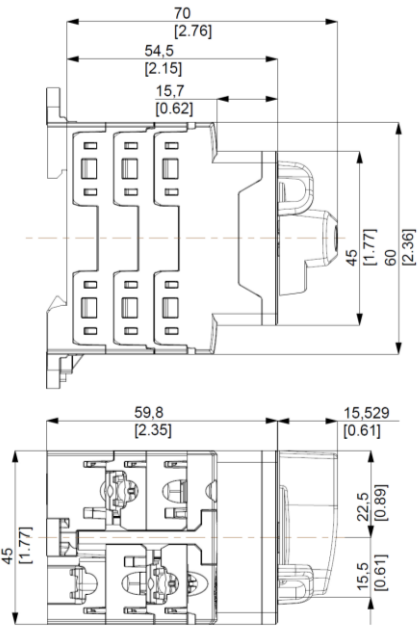
Positions



Electrical Diagram

| Layer   | 1  | 2  | 3                     | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------|----|----|-----------------------|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Marking | -1 | +1 |                       |   |   |   |   |   |   |    |    |    |    |    |    |    |
|         |    |    | E<br>M<br>P<br>T<br>Y |   |   |   |   |   |   |    |    |    |    |    |    |    |
| Marking | -1 | +1 |                       |   |   |   |   |   |   |    |    |    |    |    |    |    |
| 0/OFF   |    |    |                       |   |   |   |   |   |   |    |    |    |    |    |    |    |
| I/ON    | X  | X  |                       |   |   |   |   |   |   |    |    |    |    |    |    |    |

Dimensions



Drilling Templates

