

|                           |                               |                                                                                     |
|---------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| 44420282                  | <b>DATA SHEET</b>             |  |
| Valid from:<br>14.01.2019 | <b>EPIC® POWERLOCK BOX S*</b> |                                                                                     |

## Description

- Circular connectors for servomotors and power supply
- Guarantees the correct sequence is followed when connecting and disconnecting a set of connectors (PE, N, L1, L2, L3)
- Every colour has a different coding to prevent incorrect plugging
- IP 20 finger-protected
- Integrated micro-switch that can be connected to circuit breaker or alarm circuit



## General Characteristics

|                               |                                        |
|-------------------------------|----------------------------------------|
| Series                        | Powerlock Box S                        |
| Version                       | panel- mount base, drain / source      |
| Rated voltage (V)             | 1000 V                                 |
| Rated current (A)             | Screw terminated: max400 A             |
| Contacts                      | Screw termination: silver-plated brass |
| Number of contacts            | 4+PE                                   |
| Termination methods           | Crimp termination: 50 - 120 mm²        |
| Protection                    | IP 65                                  |
| Cycle of mechanical operation | 500                                    |
| Temperature range             | -20°C to +85°C                         |
| Degree of soiling             | 3                                      |

## Product Variations

| Article- Number                                                                     | Article             | Fastening type | Pin configuration |
|-------------------------------------------------------------------------------------|---------------------|----------------|-------------------|
| <b>POWERLOCK BOX A1, panel-mount base, drain with M12 threaded post</b>             |                     |                |                   |
| 44420282                                                                            | POWERLOCK BOX A1 S  | Ø6,5mm (4x)    | 4+PE              |
| <b>POWERLOCK BOX A1, panel-mount base with cover, drain with M12 threaded post</b>  |                     |                |                   |
| 44420283                                                                            | POWERLOCK BOX A1 SD | Ø6,5mm (4x)    | 4+PE              |
| <b>POWERLOCK BOX A6, panel-mount base, source with M12 threaded post</b>            |                     |                |                   |
| 44420286                                                                            | POWERLOCK BOX A6 S  | Ø6,5mm (4x)    | 4+PE              |
| <b>POWERLOCK BOX A6, panel-mount base with cover, source with M12 threaded post</b> |                     |                |                   |
| 44420287                                                                            | POWERLOCK BOX A6 SD | Ø6,5mm (4x)    | 4+PE              |

## Material/Surface

|         |                                |
|---------|--------------------------------|
| Housing | High temperature thermoplastic |
|---------|--------------------------------|

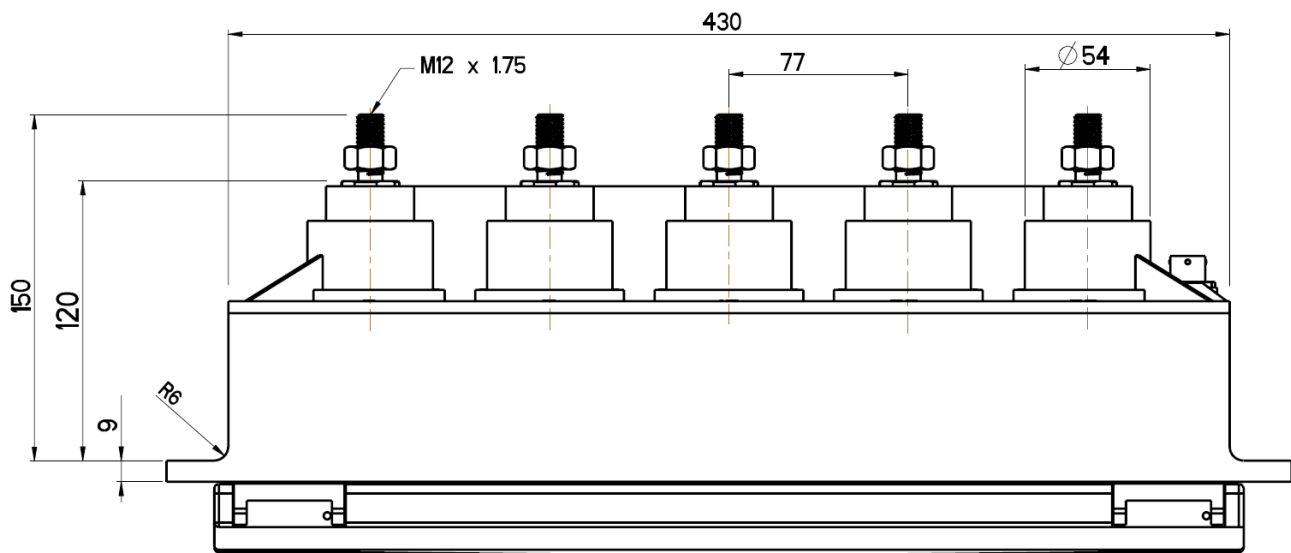
## Approvals

|                            |      |
|----------------------------|------|
| VDE-Approval, VDE-REG.-No. | D042 |
|----------------------------|------|

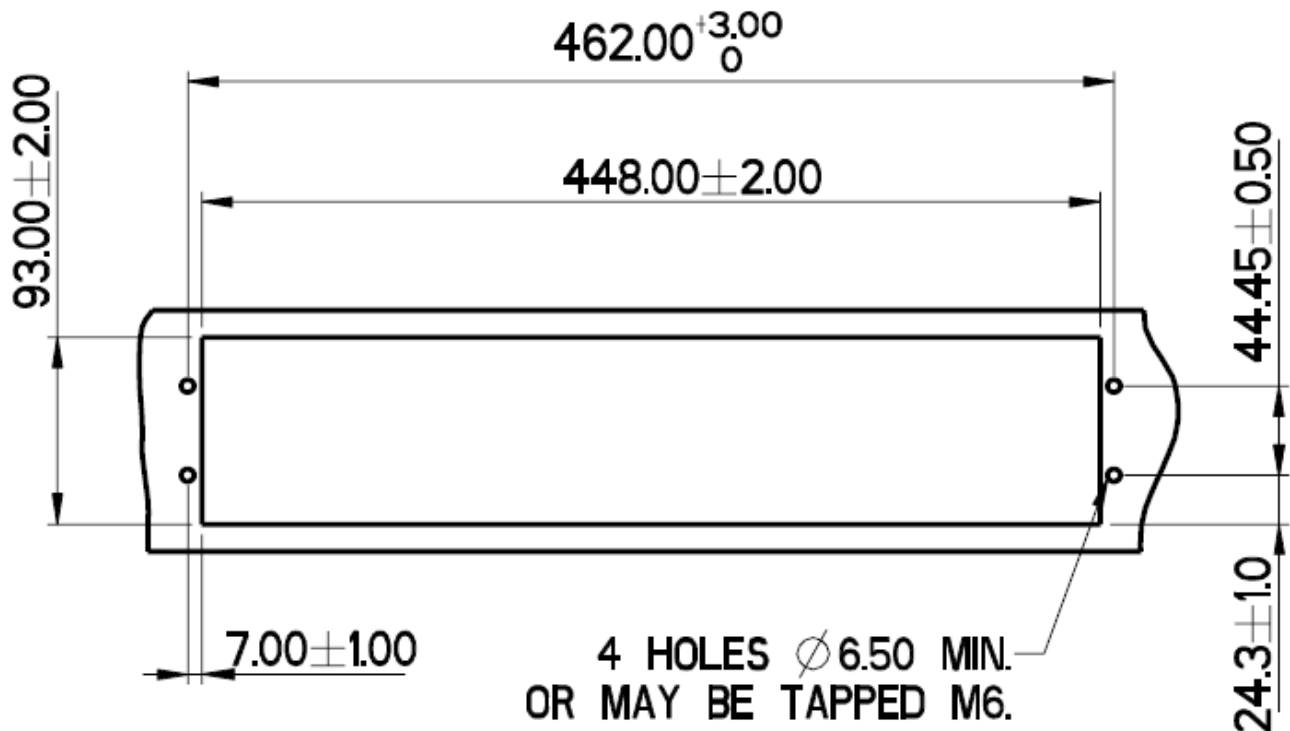
|                                           |                                       |             |
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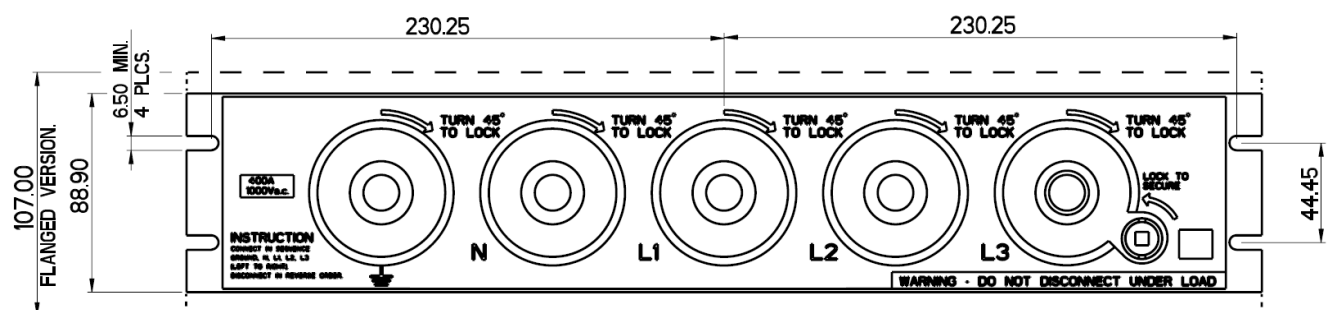
Technical Drawings



|                           |                        |                                                                                     |
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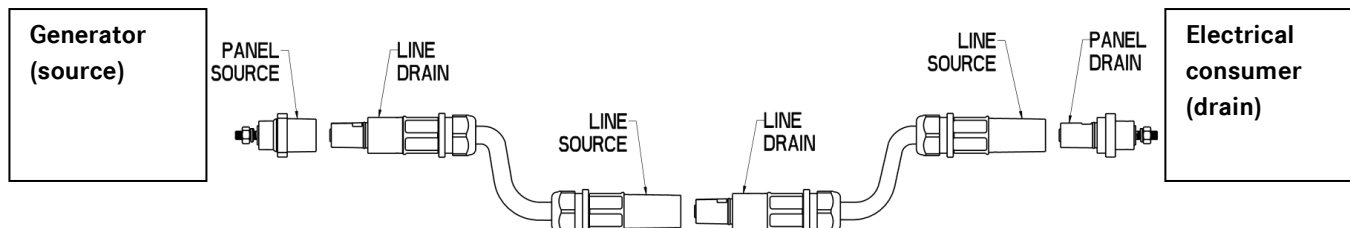
## RECOMMENDED PANEL CUT OUT. FOR FLANGED VERSION

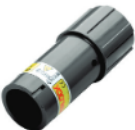


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## System description



|        | Line connector                                                                          | Panel mount connector                                                                   | Crimp contact                                                                      | Screw contact                                                                       |
|--------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Source | D6<br> | A6<br> |  |  |
| Drain  | F6<br> | A1<br> |  |  |

Step 1) Selection of housings:

Step 2) Selection of SKINTOP® cable gland M40 for the housing (only cable connectors):

e.g. 3111250 (black), 53111450 (light grey), 53111050 (silver grey)

Step 3) Decision: 400 A / max. 120mm<sup>2</sup> → Screw contacts

660 A / max. 240mm<sup>2</sup> → Crimp contacts

**! Screw and crimp contacts are not allowed to be mixed!**

Step 4) Selection of contacts:

Screw contacts with reduction sleeve (with 120mm<sup>2</sup> not necessary)

Contacts with M12 thread (for cable lug Ø12 mm)

|        | M12-thread 660 A                                                                                | M12-thread 400 A                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Source | <br>44420261 | <br>44420242 |
| Drain  | <br>44420260 | <br>44420241 |

**Note:** POWERLOCK Boxes: Already includes contacts with M12 thread.

Tightening torque M12 nut: 27,5 Nm - 31,4 Nm

|                                           |                                       |             |
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Approved



Robust



Reliability



Waterproof

### Info

Can be locked to prevent unauthorised disconnection

### Application range

Alternative energy installations

For mobile and stationary power distribution

For the connection of motors, transformers and generators

Light & sound technology

### Housings

Sealed security lid is optional

### Product features

Included: Contacts with M12 threaded post

Cable connector for microswitch optional

19" housing with height unit 2HE/2U

### Remark

\* Trade product, not Lapp product

Photographs are not to scale and do not represent detailed images of the respective products.

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