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|---------------------------|-------------------------|
| 44420282 | DATA SHEET |
| Valid from: 08.01.2024 | POWERLOCK BOX S* |

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 mm ² |
| Protection | IP 20 without cover, not plugged in IP65 with closed cover, not plugged in IP65 mated |
| 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 |
|---|---------------------|----------------|-------------------|
| POWERLOCK BOX A1, panel-mount base, drain with M12 threaded post | | | |
| 44420282 | POWERLOCK BOX A1 S | Ø6,5mm (4x) | 4+PE |
| POWERLOCK BOX A1, panel-mount base with cover, drain with M12 threaded post | | | |
| 44420283 | POWERLOCK BOX A1 SD | Ø6,5mm (4x) | 4+PE |
| POWERLOCK BOX A6, panel-mount base, source with M12 threaded post | | | |
| 44420286 | POWERLOCK BOX A6 S | Ø6,5mm (4x) | 4+PE |
| POWERLOCK BOX A6, panel-mount base with cover, source with M12 threaded post | | | |
| 44420287 | POWERLOCK BOX A6 SD | Ø6,5mm (4x) | 4+PE |

Material/Surface

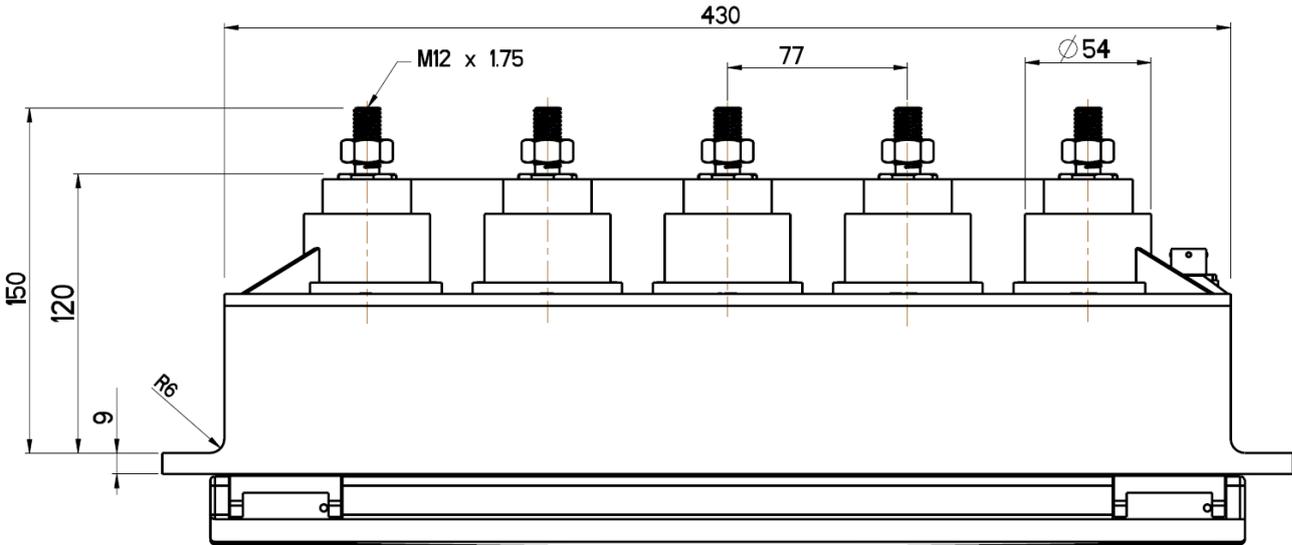
Housing High temperature thermoplastic

Approvals

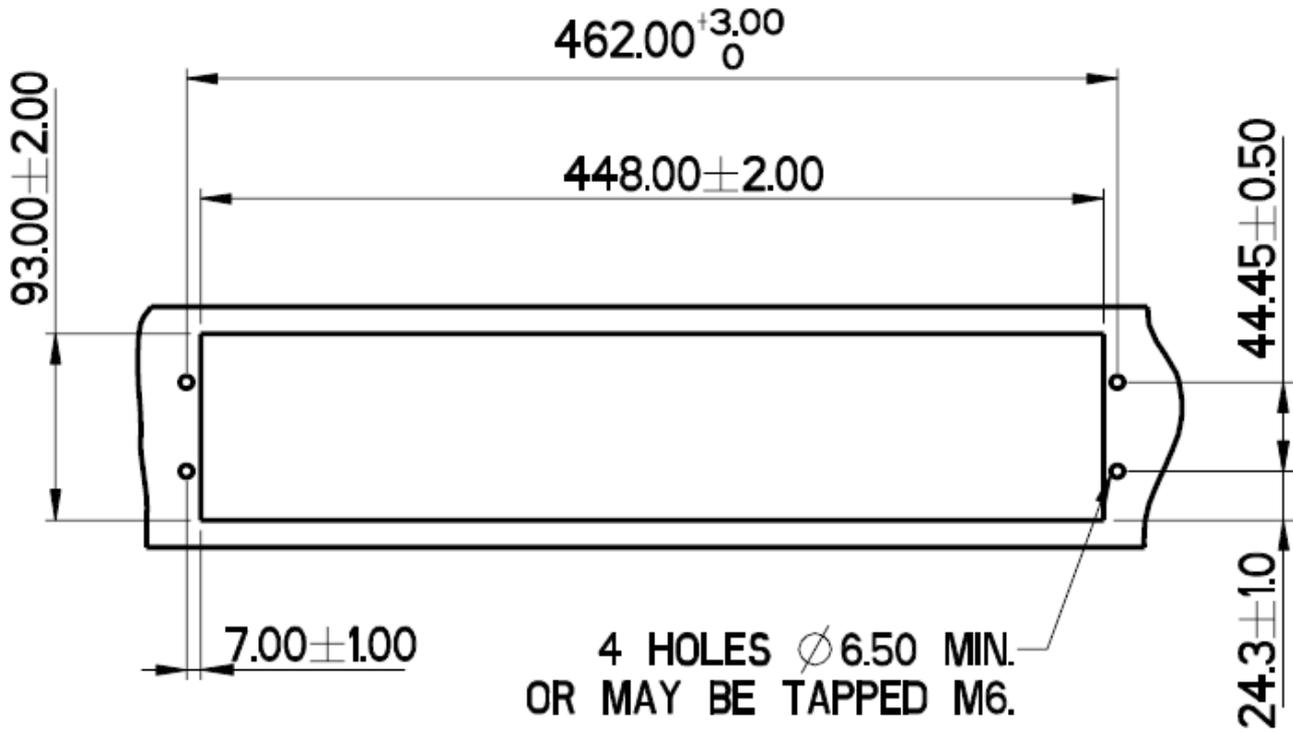
VDE-Approval, VDE-REG.-No. D042

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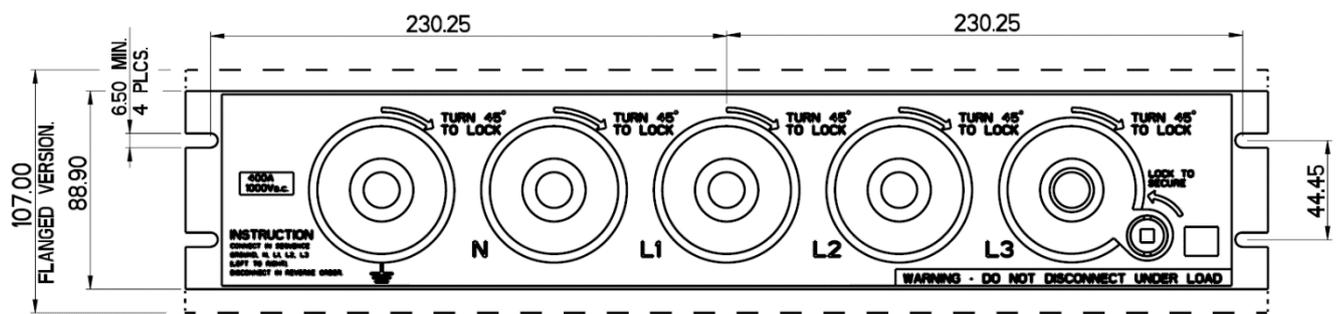
Technical Drawings



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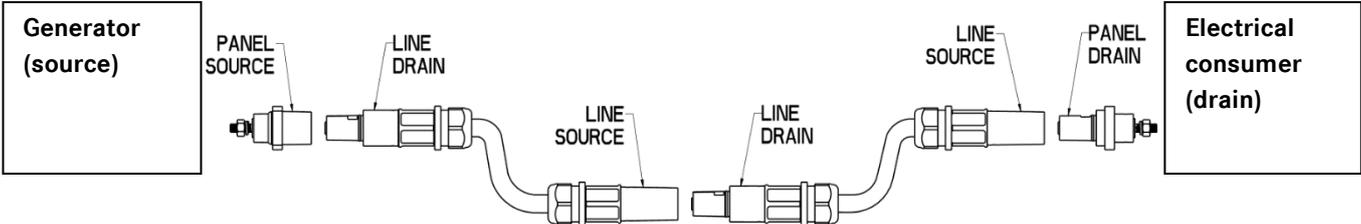


**RECOMMENDED PANEL CUT OUT.
FOR FLANGED VERSION**



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System description



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

- 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. 120mm² -> Screw contacts
 660 A / max. 240mm² -> Crimp contacts
! Screw and crimp contacts are not allowed to be mixed!
- Step 4) Selection of contacts:

Screw contacts with reduction sleeve (with 120mm² not necessary)

Contacts with M12 thread (for cable lug Ø12 mm)

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

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

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

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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.