



Junction box EKL premium

Features

- Chemical-resistant
- Temperature-resistant
- Flame-retardant
- For use in ex areas with surface resistance $< 10^9 \Omega$
- Absolutely corrosion-proof
- Seawater-proof

Description

Polyester enclosures have proven their worth in many industrial plants.

They offer safe protection even when they are used under extremely unfavorable conditions, on exposure to aggressive chemical media or hard mechanical conditions.

The inside base of the enclosure has at its sides, threaded bushings for the fastening of mounting rails or panels.

The enclosure is mounted by means of insulated screws outside of the lid seal.

Explosion protection

Ex protection type

- ⊕ II 2G Ex e ia/ib IIA, IIB or IIC T6 or T5
- ⊕ II 2D Ex tD A21 IP 6x T 95 °C
-55 °C $\leq T_a \leq$ +55 °C
- ⊕ II 2D Ex tD A21 IP 6x T 80 °C
-55 °C $\leq T_a \leq$ +40 °C

Certification

PTB 08 ATEX 1064
IBEXU00ATEX1081

Technical data

Material

glass-fiber reinforced polyester,
surface resistance $< 10^9 \Omega$

Colour

RAL 9005, black

Mechanical resistance

impact energy 7 Nm

Protection class (EN 60529/IEC 60529)

IP 66/67

Cable gland

IP 65

Supply voltage

240 V/415 V

Standard seal

EPDM -20 °C up to +100 °C
Silikon -55 °C up to +100 °C

Lid screws

Stainless steel cross slot (+ -)

Selection chart

Enclosure Short form title	Enclosure sizes	Terminals/cross section	Terminal identification	Earth terminals/cross section	Glands/bore holes	Terminal range	Order no.
Ex 300	160 x 160 x 90	2/6 mm ²	L, N	2 with 6 mm ²	1 x M25 2 x threaded M20	8 up to 17 mm	07-5103-9054
Ex 400 S	160 x 160 x 90	3/6 mm ²	L1; L2, L3	4 with 6 mm ²	1 x M25 4 x threaded M20	8 up to 17 mm	07-5103-9055
Ex 400 D	260 x 160 x 90	6/6 mm ²	2 x L1; 2 x L2; 2 x L3	each 6/6 mm ²	1 x M25 6 x threaded M20	8 up to 17 mm	07-5103-9056

Cold leads cable length 1.2 m, gland M20

Cable cross section 4 mm²

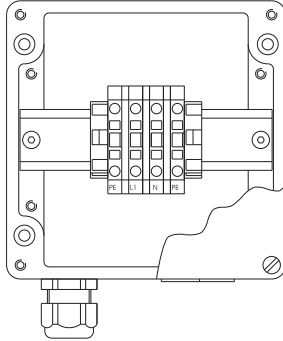
Order no. 05-0020-0336

Cable cross section 2.5 mm²

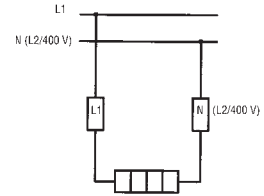
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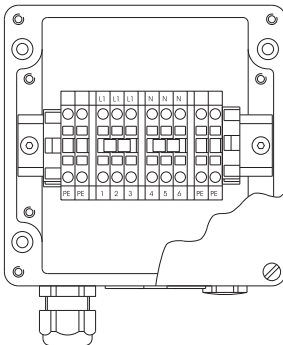
Junction box Ex 300



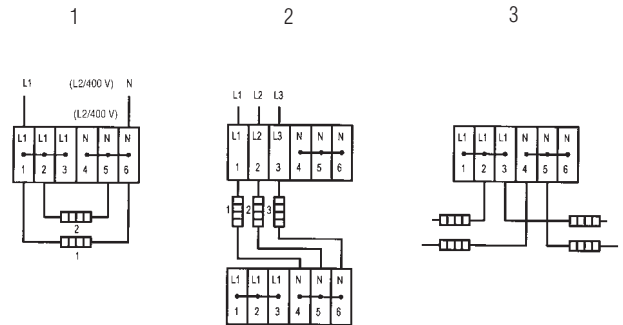
Connection diagram for junction box Ex 300



Junction box/terminal box Ex 400 S

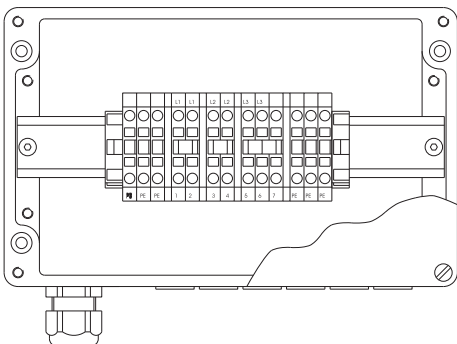


Connection diagram for junction box Ex 400 S

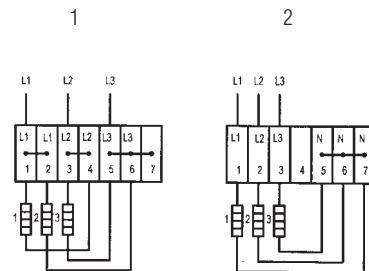


- 1 Double junction box
- 2 Star connection
- 3 Intermediate junction box

Junction box Ex 400 D



Connection diagram for junction box Ex 400 D



- 1 Delta connection
- 2 Star connection