

Applications of low-voltage systems

Heating circuit distrib.boards with resid. curre. circu. brkr

With overcurrent release

8146/5-ExV-05-24H16B1N-T Art. No. 137157



- Standard variants with short delivery times, customer-specific options possible
- With miniature circuit breaker, tripping characteristic C
- With residual current circuit breaker with overcurrent release, tripping characteristic C
- Nominal currents of 10, 16, 20 and 25 A

MY R. STAHL 8146D



R. STAHL Series 8146 lighting and heating circuit distribution boards are modular and are therefore available in a large number of standard variants which are ready for rapid delivery. Custom-specific options are also possible. The moulded case circuit breakers are installed beneath a hinged inspection glass and can be actuated from the outside, even when live. The switching position is visible at all times.

Technical Data

| Explosion Protection | |
|---------------------------------------|---|
| Application range (zones) | 1, 2, 21, 22 |
| IECEX gas certificate | IECEX PTB 06.0090 |
| IECEX gas explosion protection | Ex db eb IIC T4 Gb |
| IECEX dust certificate | IECEX PTB 06.0090 |
| IECEX dust explosion protection | Ex tb IIIC T130 °C Db |
| ATEX gas certificate | PTB 01 ATEX 1024 |
| ATEX gas explosion protection | Ex II 2 G Ex db eb IIC T4 Gb |
| ATEX dust certificate | PTB 01 ATEX 1024 |
| ATEX dust explosion protection | Ex II 2 D Ex tb IIIC T130 °C Db |
| Certificates | ATEX (PTB), Canada (FM), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM) |
| Declaration of Conformity | ATEX (EUK), China (CCC) |
| Explosion protection note | Product label may vary. Series devices are labelled with ATEX and IECEX. |
| Electrical Data | |
| Rated operational voltage AC | 230 ... 400 V |
| Rated operational current | 80 A (T4) |
| Layout No. | 05 |
| Frequency range | 50 – 60 Hz |
| Notes | Depending on the terminal type and the explosion-protected components used |
| Ambient Conditions | |
| Ambient temperature | -20 °C ... +40 °C |
| Mechanical Data | |
| Degree of protection (IP) | IP66 |
| Degree of protection (IP) (IEC 60529) | IP66 |
| Enclosure material | Polyester resin, Glass fibre reinforced |
| Enclosure colour | Grey |

Applications of low-voltage systems

Heating circuit distrib.boards with resid. curre. circu. brkr

With overcurrent release

8146/5-ExV-05-24H16B1N-T Art. No. 137157



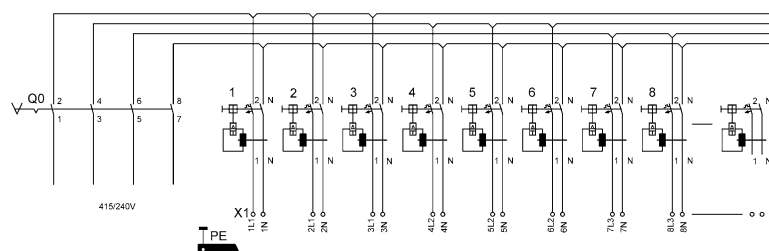
Mechanical Data

| | |
|---|--------------------------------|
| Flame retardant acc. | IEC/EN 60695, UL 94, ASTM D635 |
| Max. finely stranded connection terminals | 35 mm ² |
| Width | 1578 mm |
| Height | 684 mm |
| Depth | 240 mm |
| Impact strength (IEC 60079) | 7 J |
| Weight | 95 kg |
| Weight | 209.44 lb |

Components

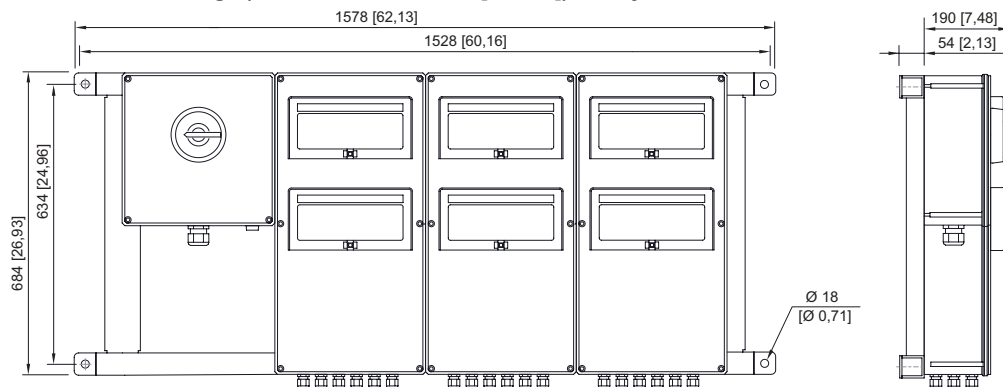
| | |
|------------------------|--|
| Locking device present | Yes |
| Built-in unit 2 | 24 x Resid. current circuit breaker 1-pole 16 A+N/30 mA/B/6 kA |
| Entry 1 | 1 x 8161/7-M50-3516 |
| Entry 2 | 24 x 8161/7-M25-1707 |
| Entry 3 | 1 x 8161/7-M16-0902 |
| Type of terminals PE 1 | 1 x Phoenix UT 2-conductor, 35 mm ² , green-yellow |
| Earth rail | 12 x 10 mm ² (3x) |

Technical Drawings – Subject to Alterations



Circuit diagram 8146/5-ExV-.....1N-T

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Layout 05

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.