# Load disconnect switches and motor starters

Circuit protection assembly Miniature circuit breaker

## 8150/5-V50-03010-277-30-000-00-000 Art. No. 338486



- Lightweight construction
- Stainless steel 1.4404 (AISI 316L), brush finished for corrosion resistance
- Suitable for low ambient temperatures
- Enclosure type 3, 4, 4X, IP66
- No conduit seal required – Cable gland entry and sealed circuit breaker enclosure
- International approvals for worldwide use

MY R. STAHL **8150T**

V50 Series circuit breaker assemblies are designed for hazardous locations and harsh environments, featuring a corrosion-resistant stainless steel enclosure and dependable circuit protection. Ideal for installation near control panels, motors, skids, and machinery, they combine molded case and miniature circuit breaker technology with high short-circuit switching capacity. The modular design enables easy expansion and maintenance, while ergonomic padlockable rotary actuators enhance operational and personnel safety. Supplied without preinstalled entries, the V50 provides flexible cable configuration and long-term reliability in demanding applications.

## Technical Data

| **Explosion Protection** | |
|---|---|
| Area of application | European Union (ATEX)<br>IECEx<br>USA<br>Canada (CSA) |
| Application range (zones) | 1, 2, 21, 22 |
| IECEx gas certificate | IECEx PTB 09.0049 |
| IECEx gas explosion protection | Ex db eb IIC T4 Gb |
| IECEx dust certificate | IECEx PTB 09.0049 |
| IECEx dust explosion protection | Ex tb IIIC T95 °C Db |
| ATEX gas certificate | PTB 09 ATEX 1109 |
| ATEX gas explosion protection | II 2 G Ex db eb IIC T4 Gb |
| ATEX dust certificate | PTB 09 ATEX 1109 |
| ATEX dust explosion protection | II (2) D Ex tb IIIC T95 °C Db |
| Certificate FMus | FM24US0069X |
| Marking FMus | Cl.I, Div.2 Gps.A,B,C,D, T4<br>Cl.II, Cl.III, Div.1, Div. 2 Gps.E,F,G, T4<br>Class I, Zone 1 AEx db eb IIC T4 Gb<br>-35°C ≤ Ta ≤ +55°C<br>Type 3, 4, 4x and IP66 |
| cFM certificate | FM24CA0028X |
| Marking cFM | Cl.I, Div.2 Gps.A,B,C,D, T4<br>Cl.II, Cl.III, Div.1, Div. 2 Gps.E,F,G, T4<br>Ex db eb IIC T4<br>-35°C ≤ Ta ≤ +55°C<br>Type 3, 4, 4x and IP66 |
| Certificates | ATEX (PTB), Canada (FM), IECEx (PTB), USA (FM) |

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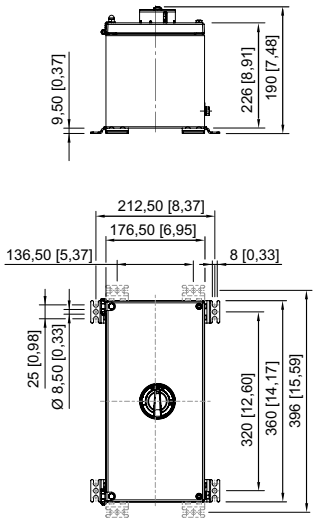
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| | |
|---|---|
| **Electrical Data** | |
| AC rated operational voltage | 480Y/277 V |
| Rated operating voltage DC | 12 … 96 V |
| Rated operational current | 10 A |
| Frequency | 50 / 60 Hz |
| Rated switching capacity | 10 kA |
| Electrical service life | 2 x $10^4$ |
| Mechanical service life | 2 x $10^4$ |
| No. of poles | 3-pole |
| Tripping characteristic | C |
| **Ambient Conditions** | |
| Ambient temperature | -40 °C ... 55 °C |
| Ambient temperature | -40 °F ... 131 °F |
| **Mechanical Data** | |
| Degree of protection (IP) (IEC 60529) | IP66/IP2X |
| Enclosure material | Stainless steel 1.4404, (AISI 316L), brush finished |
| Connection cross-section | 1.5 ... 25 mm² |
| Connection cross-section AWG | 16 AWG |
| Connection cross-section 2 | 1.5 ... 10 mm² |
| Connection cross-section 2 AWG | 16 AWG ... 8 AWG |
| Seal | Silicone, foamed |
| Width | 176 mm |
| Width, inches | 6.92 in |
| Length | 360 mm |
| Length in inches | 14.17 in |
| Mounting depth | 190 mm |
| Mounting depth in inches | 7.48 in |
| Handle colour | Black |
| Protective collar colour | Black |
| Weight | 7 kg |
| Weight | 15.43 lb |
| **Mounting / Installation** | |
| Tightening torque | 2 ... 3 N · m |
| Tightening torque lbf in | 17.7 lbf in ... 26.6 lbf-in |
| Tightening torque auxiliary contact | 0.4 ... 0.6 N · m |
| Tightening torque auxiliary contact lbf in | 3.5 lbf-in ... 5.3 lbf-in |
| **Components** | |
| Cable gland | without |

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







8150/5-V50-03-...-...-30-000-00-000

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.