

IB IL 400 BR - Inline terminal

2727394

<https://www.phoenixcontact.com/us/products/2727394>

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Inline extension module, for brake control in conjunction with Inline power level terminals, brake module for 440 V DC or 440 V AC brakes

Product description

The brake module is a passive, electronic brake control switch which can be snapped on the power-level terminal block using a 3-pos. inverted COMBICON plug.

The connection to the brake is made using a 2-pos. COMBICON plug with a connection cross section of up to 2.5 mm².

Your advantages

- Connection option for an external passive brake module
- Hand-held operator panel mode
- Integrated electronic motor protection in accordance with IEC 60947-4
- Diagnostic and status indicators
- Safe isolation between mains voltage and 24 V supply voltage in accordance with EN 50178
- Motor control via OUT process data
- Motor current monitoring

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2727394 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | NULL |
| Product key | DRI172 |
| GTIN | 4017918168469 |
| Weight per piece (including packing) | 100.1 g |
| Weight per piece (excluding packing) | 91 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

Technical data

Product properties

| | |
|-----------------|------------------|
| Product type | Extension module |
| Product family | Inline |
| Type | Inline |
| No. of channels | 1 |

Insulation characteristics

| | |
|------------------|-------------------------------------|
| Protection class | I (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|-------------------------------------|

Electrical properties

| | |
|-----------------|---|
| Switch-on delay | < 4 ms |
| Test section | 24 V supply (U_S), GND, brake control/protective earth ground (PE) 500 V AC 50 Hz 1 min |
| | 24 V supply (U_S), GND, brake control/brake output 500 V AC 50 Hz 1 min |
| | Brake output/protective earth ground (PE) 500 V AC 50 Hz 1 min |

Brake to be connected

| | |
|-------------------------|---|
| Connection name | Connection of the brake to the brake module |
| Connection method | COMBICON connectors |
| Cross section | 2.5 mm ² (maximum conductor cross-section) |
| Protective circuit | Surge voltage suppression > 750 V |
| Contact connection type | Unpolarized semiconductor switch |
| Connection voltage | 20 V AC ... 440 V AC (no tolerances permitted) |
| | 12 V DC ... 440 V DC (no tolerances permitted) |
| Residual voltage | 3.4 V (maximum) |

Brake module

| | |
|---------------------------|---|
| Connection name | Connection to the power-level terminal block |
| Connection method | 3-pos. COMBICON |
| Control voltage | 24 V DC (= U_S from the power-level terminal block) |
| Control current | 17 mA |
| Active current limitation | Through resistor |

Output data

| | |
|------------------|-----------------|
| Residual voltage | 3.4 V (maximum) |
|------------------|-----------------|

Connection data

| | |
|-------------------|---------------------|
| Connection method | COMBICON connectors |
|-------------------|---------------------|

Dimensions

| | |
|--------|-------|
| Width | 55 mm |
| Height | 57 mm |
| Depth | 16 mm |

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Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 55 °C (permitted) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C (permitted) |
| Permissible humidity (operation) | 75 % ... 85 % (75% average, 85% seldom) |
| Permissible humidity (storage/transport) | 75 % ... 85 % (75% average, 85% seldom) |
| Air pressure (operation) | 80 kPa ... 106 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |

Mounting

| | |
|---------------|--------------------|
| Mounting type | In the host system |
|---------------|--------------------|

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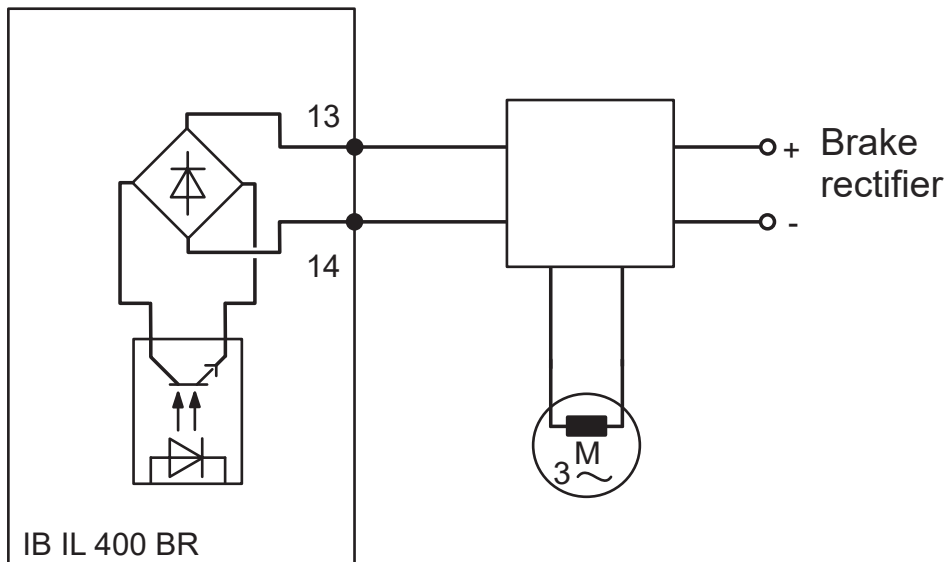
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Drawings

Connection diagram



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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 6f4d7f98-d1a9-495a-a5d0-8411c732dd2c |

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