

# IB IL 24 BR/DC - Inline terminal

2742036

<https://www.phoenixcontact.com/us/products/2742036>

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Inline extension module, for brake control in connection with Inline power terminal blocks, brake module for 24 V DC brakes

## Your advantages

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

## Commercial data

Item number	2742036
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI172
GTIN	4017918194277
Weight per piece (including packing)	120.3 g
Weight per piece (excluding packing)	91 g
Customs tariff number	85369010
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Product properties

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

#### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### Electrical properties

Switch-on delay	< 2 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 <sup>2</sup> (maximum conductor cross-section)
Protective circuit	Polarity reversal protection, surge voltage suppression > 36 V
Contact connection type	Polarized semiconductor switch
Connection voltage	24 V DC
Residual voltage	0.4 V DC (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	0.4 V DC (maximum)
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### Connection data

Connection method	COMBICON connectors
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## Dimensions

Width	55 mm
Height	57 mm
Depth	16 mm

## 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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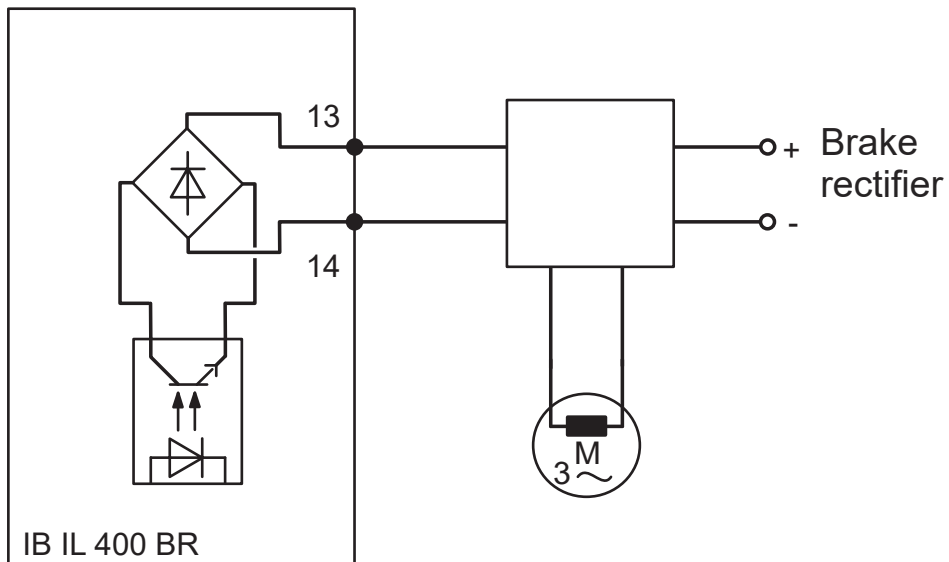
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## Drawings

Connection diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)