

# IB IL 400 SAFE 2 - Inline terminal

2740795

<https://www.phoenixcontact.com/us/products/2740795>



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Inline safety terminal, three N/O contacts, one N/C contact, 200 V AC - 600 V AC



## Product description

The IB IL 400 SAFE 2 safety terminal in conjunction with the IB IL 24 SAFE 1 safety terminal is designed for use within an Inline station. The terminal acts as a contact expansion for IB IL 24 SAFE 1 and switches off the 400 V three-phase power supply of the downstream power-level terminals used for switching asynchronous motors. The wiring is such that the terminal can be used in direct connection with the IB IL 24 SAFE 1 in applications in all safety categories, including category 4.

## Commercial data

Item number	2740795
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN03
Product key	DNA45Z
GTIN	4017918193805
Weight per piece (including packing)	841.4 g
Weight per piece (excluding packing)	841.4 g
Customs tariff number	85369010
Country of origin	DE

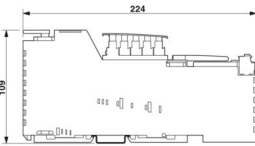
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## Technical data

### Dimensions

Dimensional drawing	
Width	63 mm
Height	224 mm
Depth	109 mm

### Material specifications

Color	green
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### Interfaces

#### Inline local bus

Connection method	Inline data jumper
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### Output data

#### Digital:

Output name	Relay output
Number of outputs	4
Protective circuit	Short-circuit and overload protection; Fuse type 2, 20 A gG (gl)
Output voltage range	< 187 V AC ... 480 V AC +0 % (Operating voltage (line voltage))
Nominal load, ohmic	max. 5500 W
Signal delay	typ. 45 ms (Off delay)

#### Relay

Contact switching type	3 N/O contacts, 1 N/C contact (feedback)
Contact connection type	Positively driven
Switching voltage	200 V AC (up to 600 V AC)
Switching current	12 A (at 400 V AC)
Switching power	5500 VA
Min. switching current	100 mA
Switching frequency	max. 30 (per minute)
Release time	< 20 ms

### Product properties

Product type	I/O component
Product family	Inline

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Type	modular
Mounting position	Horizontal DIN rail
No. of channels	1

## Electrical properties

### Potentials: Segment circuit supply ( $U_S$ )

Supply voltage	24 V DC (nominal value)
Current draw	max. 270 mA

### Supply: Module electronics

Connection method	Through the potential jumper
Supply voltage	24 V DC (Removal from the segment circuit)
Supply voltage range	20.4 V DC ... 27.6 V DC (including ripple)
Supply current	max. 270 mA (From $U_S$ )
Current consumption	max. 270 mA

## Connection data

### Connection technology

Connection name	Inline connector
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### Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 45 °C (Deviation from the Inline specifications)
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 % (75% average, 85% seldom)
Permissible humidity (storage/transport)	75 % ... 85 % (75% average, 85% seldom)

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	1g, 2 h in each direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	5g, 11 ms period, half-sine shock pulse

## Standards and regulations

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

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Mounting type	DIN rail mounting
Mounting position	Horizontal DIN rail

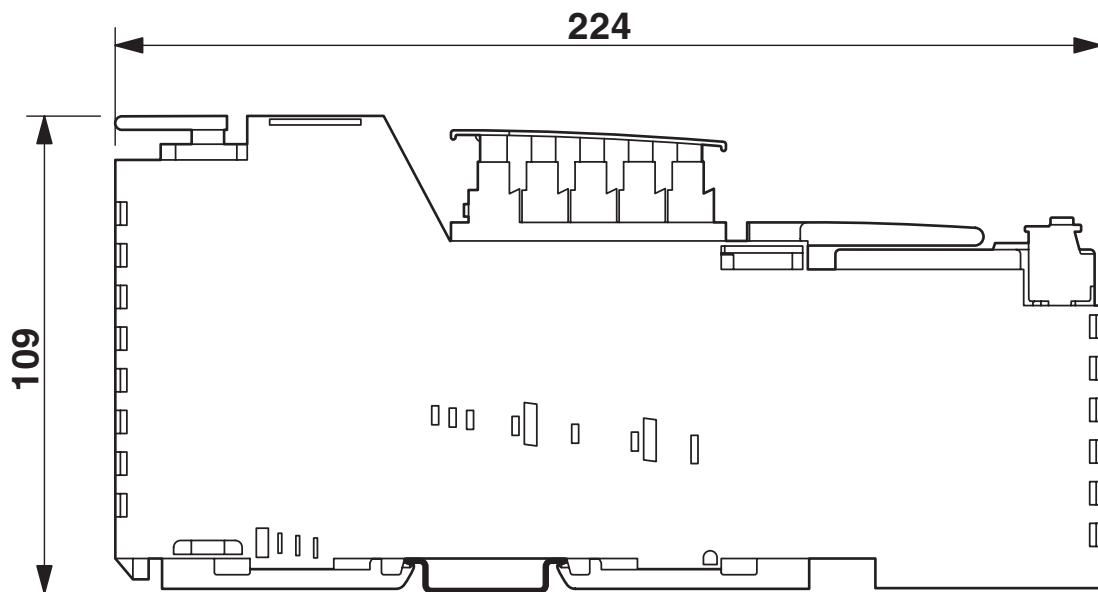
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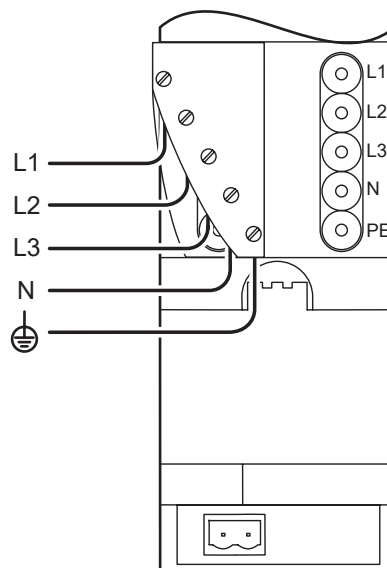
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## Drawings

Dimensional drawing



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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