IB IL 400 ELR 1-3A - Function module

2727352

https://www.phoenixcontact.com/us/products/2727352

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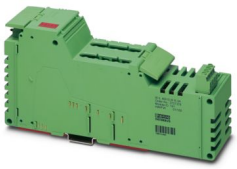
Inline power-level terminal blocks, electronic direct starter, up to 1.5 kW / 400 V AC



Product description

The terminal is designed for use within an Inline station. The single-channel power-level terminal features electronic motor protection. The terminal enables a three-phase asynchronous motor to be switched, protected, and monitored via a bus system.

Your advantages

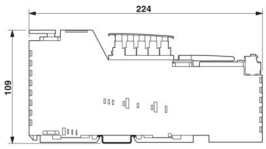
- Integrated electronic motor protection in accordance with IEC 60947-4
- Connection option for an external passive brake module
- Hand-held operator panel mode
- Motor control via OUT process data
- Motor current monitoring

Commercial data

Item number	2727352
Packing unit	1 pc
Sales key	DR01
Product key	DRI171
GTIN	4017918168476
Weight per piece (including packing)	546 g
Weight per piece (excluding packing)	450 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	63 mm
Height	224 mm
Depth	109 mm

Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

System properties

Programming data (LocalbusSlave)

Length code (hex)	81
ID code (dec.)	191
Length code (dec)	129
Process data channel	8 bit
Input address area	1 Byte
Output address area	1 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	1 Byte

Fieldbus data telegram

Required parameter data	5 Byte
Required configuration data	5 Byte

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Mounting position	Panel mounting on horizontal DIN rail
Operating mode	Process data mode with one byte
Diagnostics messages	Overcurrent Error message in the diagnostic code (bus) and

	display via the LED ERR on the module
	Output stage cannot be controlled Error message in the diagnostic code (bus) and display via the LED ERR on the module

Electrical properties

Potentials

Power consumption	max. 1.2 W (entire device)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 45 mA
Power consumption	max. 0.34 W

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 28.8 V DC (including all tolerances, including ripple)
Current draw	max. 50 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: Supply voltage U_L / 400 V level	1.2 kV AC, 50 Hz, 1 min
Test voltage: Supply voltage U_S / 400 V level	1.2 kV AC, 50 Hz, 1 min
Test voltage: Supply voltage U_S / brake control switch	1.2 kV AC, 50 Hz, 1 min
Test voltage: Supply voltage U_L / brake control switch	1.2 kV AC, 50 Hz, 1 min
Test voltage: Local bus/400 V level	1.2 kV AC, 50 Hz, 1 min
Test voltage: Local bus/Brake control switch	1.2 kV AC, 50 Hz, 1 min

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Note	Notes on operation Line protection for the network supply line, max. 20 A. Observe derating of the POWER-COMBICON connector
Air pressure (operation)	70 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)	10 % ... 85 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 85 % (non-condensing)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	2g, evaluation criterion 1
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g, evaluation criterion 1

Standards and regulations

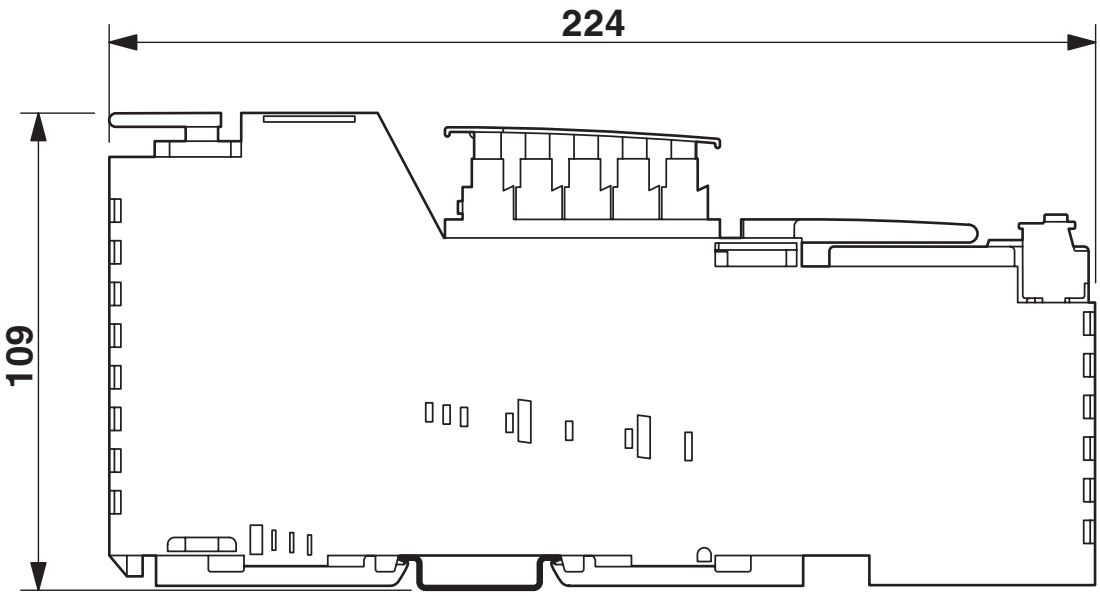
Protection class	I (IEC 61140, EN 61140, VDE 0140-1)

Mounting

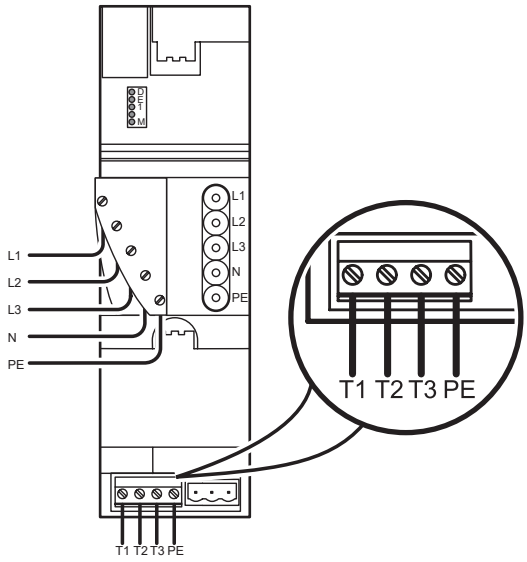
Mounting type	DIN rail mounting
Assembly note	To safeguard sufficient ventilation, ensure that there is an installation clearance of a minimum of 50 cm both above and below.
Mounting position	Panel mounting on horizontal DIN rail

Drawings

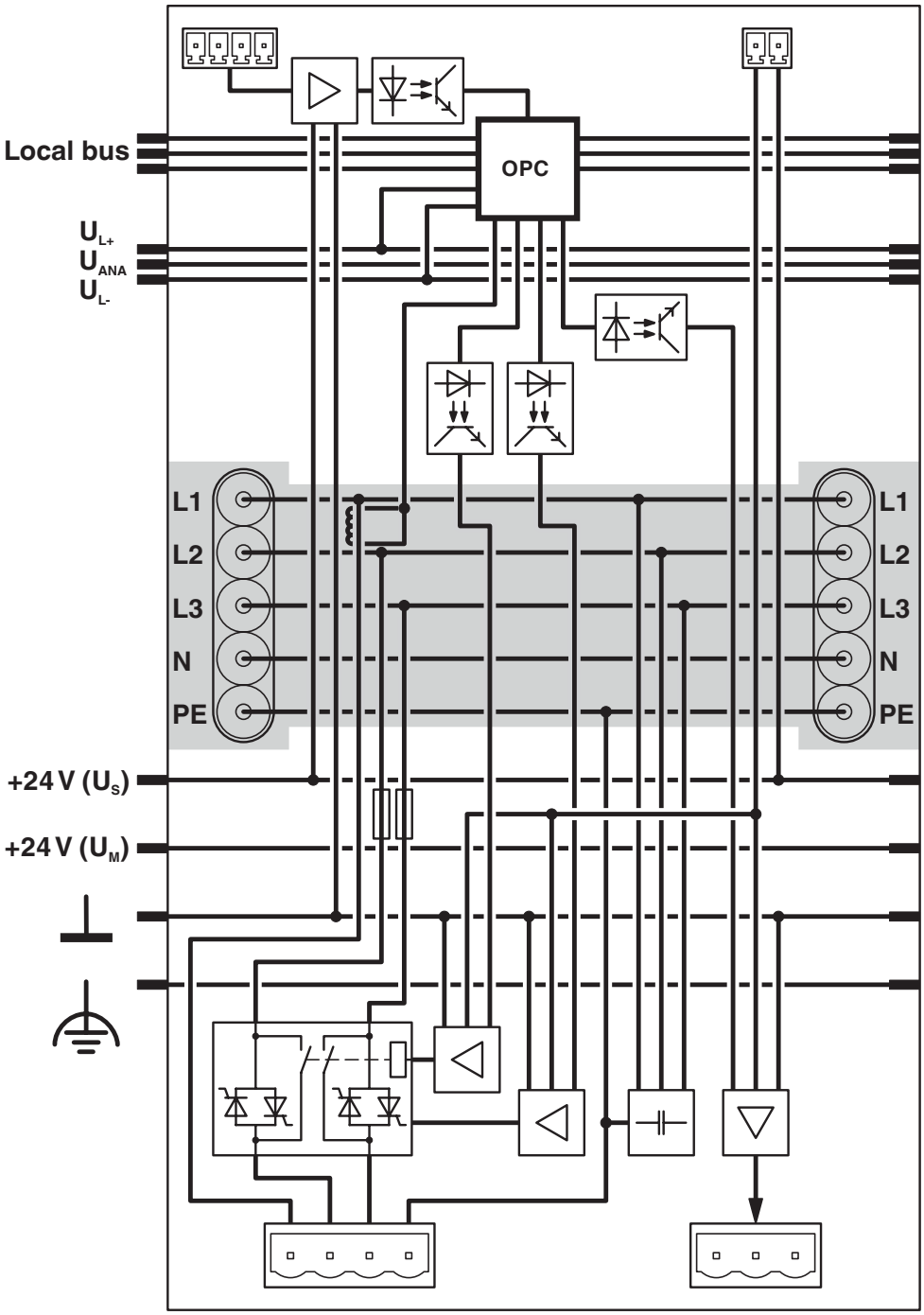
Dimensional drawing



Connection diagram



Block diagram



Internal wiring of connections

Classifications

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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	e2faf11d-04c3-42e7-bf9d-191e91fe1c5b

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