

IB IL 230 PWR IN/F-D-PAC - Inline terminal



2878971

<https://www.phoenixcontact.com/us/products/2878971>

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Inline power terminal, complete with accessories (connector and labeling field), 230 V AC, with fuse and diagnostics

Your advantages

- Supplying the L phase (230 V AC)
- L phase protected by an internal fuse
- Diagnostic and status indicators

Commercial data

Item number	2878971
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI121
GTIN	4046356083522
Weight per piece (including packing)	206.5 g
Weight per piece (excluding packing)	80 g
Customs tariff number	85389099
Country of origin	DE

2878971

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Technical data

Dimensions

Dimensional drawing	
Width	36.6 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	gray
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Interfaces

Inline local bus

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

System properties

Programming data (LocalbusSlave)

Length code (hex)	C2
ID code (dec.)	190
Length code (dec)	194
Process data channel	2 bit
Input address area	2 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	2 bit

Fieldbus data telegram

Required parameter data	1 Byte
Required configuration data	4 Byte

Product properties

Product type	I/O component
Product family	Inline
Type	modular
	Inline

2878971

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Insulation characteristics

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

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logic) / peripheral range 230 V AC 2500 V AC 50 Hz 1 min
	7.5 V supply (bus logic) / peripheral range 230 V AC (routine test) 1200 V AC 50 Hz 1 min
	Peripheral range 230 V AC / PE 500 V AC 50 Hz 1 min
	Output / Phase 500 V AC 50 Hz 1 min

Supply

I/O voltage	230 V AC
I/O voltage range	207 V AC ... 253 V AC (including all tolerances, including ripple)
Residual ripple	± 23 V
Max. current consumption	8 A

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 25 mA

Potentials: I/O supply

Supply voltage	230 V AC (via Inline connector)
Supply voltage range	207 V AC ... 253 V AC
Power supply	max. 8 A (nominal value)

Connection data

Connection technology

Connection name	Inline connector
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Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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2878971

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Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
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)

Mounting

Mounting type	DIN rail mounting
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2878971

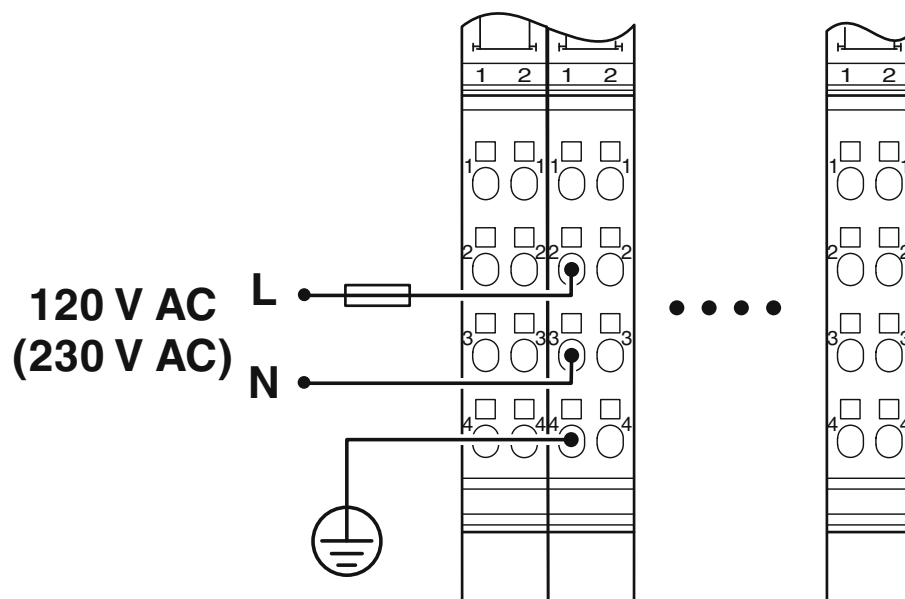
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Drawings

Dimensional drawing



Connection diagram



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Classifications

UNSPSC

UNSPSC 21.0	32151602
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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)
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