

# 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                             |

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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 |
|-------|------|

### Interfaces

|                      |                    |
|----------------------|--------------------|
| Inline local bus     |                    |
| Number of interfaces | 2                  |
| Connection method    | Inline data jumper |
| Transmission speed   | 500 kbps           |

### System properties

|                             |        |
|-----------------------------|--------|
| Module                      |        |
| ID code (dec.)              | 190    |
| ID code (hex)               | BE     |
| Length code (hex)           | C2     |
| Length code (dec)           | 194    |
| Process data channel        | 2 bit  |
| Input address area          | 2 bit  |
| Output address area         | 0 bit  |
| Register length             | 2 bit  |
| Required parameter data     | 1 Byte |
| Required configuration data | 4 Byte |

### Product properties

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

|                            |
|----------------------------|
| Insulation characteristics |
|----------------------------|

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

## 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           |

## Connection data

### Connection technology

|                 |                  |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

### Conductor connection

|                                  |                        |
|----------------------------------|------------------------|
| Connection method                | Spring-cage connection |
| Conductor cross-section rigid    | 0.08 mm² ... 1.5 mm²   |
| Conductor cross-section flexible | 0.08 mm² ... 1.5 mm²   |
| Conductor cross-section AWG      | 28 ... 16              |
| Stripping length                 | 8 mm                   |

### Inline connector

|                                   |                        |
|-----------------------------------|------------------------|
| Connection method                 | Spring-cage connection |
| Conductor cross-section, rigid    | 0.08 mm² ... 1.5 mm²   |
| Conductor cross-section, flexible | 0.08 mm² ... 1.5 mm²   |
| Conductor cross-section AWG       | 28 ... 16              |
| Stripping length                  | 8 mm                   |

## Environmental and real-life conditions

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## Ambient conditions

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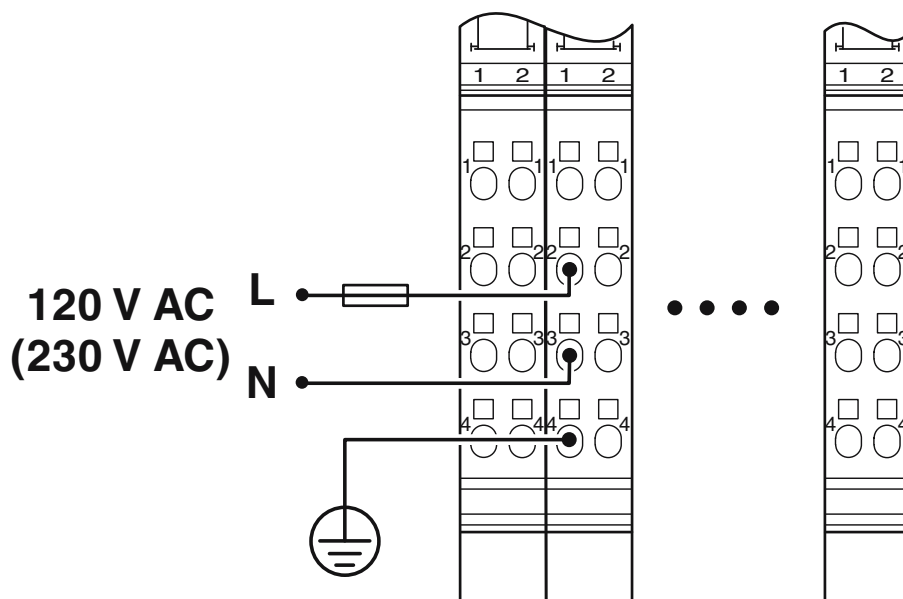


## Drawings

Dimensional drawing



Connection diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151602 |
|-------------|----------|

## 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) |
|-------------------------------------|----------------------|