

## D-LAN-19"-16

Order No.: 2880147

The illustration shows the version with 24 ports

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2880147>

19" rack with 16 surge protected ports for data interfaces in Ethernet (100Base T), Token Ring and FDDI/CDDI networks in acc. with Class D/EN 50173 (CAT5e), connection on the protective device: RJ45 sockets

### Commercial data

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 962791 |
| Note                     | Made-to-order  |
| sales group              | J471   |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85363010   |
| Catalog page information | Page 141 (TT-2011)   |

### Product notes

WEEE/RoHS-compliant since:  
06/09/2006

<http://www.download.phoenixcontact.com>  
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### Technical data

#### General

|                  |             |
|------------------|-------------|
| Housing material | Sheet steel |
| Color            | beige       |

|   |   |
|---|---|
| Standards for air and creepage distances                            | DIN VDE 0110-1  |
|   | IEC 60664-1: 1992-10  |
| Surge voltage category  | II  |
| Pollution degree  | 2   |
| Total surge current (8/20) $\mu$ s                                  | 10 kA   |
| Ambient temperature (operation)                                     | -40 °C ... 80 °C  |
| Mounting type   | 19" rack  |
| Design  | 19" rack patch module   |
| Number of positions   | 16  |
| Degree of protection  | IP20  |
| Direction of action   | Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground |
| Width   | 483.00 mm   |
| Height unit   | 1 HU  |
| <b>Protective circuit</b>   |   |
| IEC category  | C1  |
|   | C2  |
|   | C3  |
|   | B3  |
| Maximum continuous voltage $U_C$ (wire-wire)                        | 6 V DC  |
| Maximum continuous voltage $U_C$ (wire-ground)                      | 68 V DC (optional: +/- 6 V DC)  |
| Nominal current $I_N$   | 1.5 A (25°C)  |
| Operating effective current $I_C$ at $U_C$                          | $\leq 1$ mA   |
| Ground conductor current $I_{PE}$                                   | $\leq 1$ mA (jumper 2 unplugged)  |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Core)    | 350 A   |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)   | 350 A   |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Shield-Earth) | 2.5 kA (with insulated housing)   |
| Total surge current (8/20) $\mu$ s                                  | 10 kA   |
| Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Core)        | 100 A   |
| Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)       | 100 A   |
| Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static       | $\leq 20$ V   |

|  |  |
|--|--|
| Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static   | $\leq 30$ V (J2 plugged)                   |
|  | $\leq 170$ V (J2 unplugged)                |
| Output voltage limitation at 1 kV/ $\mu$ s (Shield-Earth) static | $\leq 700$ V (with insulated shield)       |
| Residual voltage at $I_n$ , (conductor-conductor)                | $\leq 65$ V                                |
| Residual voltage at $I_n$ , (conductor-ground)                   | $\leq 45$ V (J2 ON)                        |
|  | $\leq 220$ V (J2 OFF)                      |
| Residual voltage at $I_n$ , (shield-ground)                      | $\leq 700$ V                               |
| Protection level $U_p$ (Core-Core)                               | $\leq 50$ V (C1, 500 V/250 A)              |
| Protection level $U_p$ (Core-Earth)                              | $\leq 40$ V (C1, 500 V/250 A (J2 ON))      |
|  | $\leq 180$ V (C1, 500 V/250 A (J2 OFF))    |
| Protection level $U_p$ (Shield-Earth)                            | $\leq 800$ V (with insulated housing)      |
| Response time $t_A$ (Core-Core)                                  | $\leq 1$ ns                                |
| Response time $t_A$ (Core-Earth)                                 | $\leq 1$ ns                                |
| Response time $t_A$ (Core-GND)                                   | $\leq 100$ ns                              |
| Input attenuation aE, sym.                                       | Typ. 1 dB ( $\leq 100$ MHz)                |
| Near-end crosstalk attenuation                                   | Typ. 36 dB (100 $\Omega$ system / 100 MHz) |
| Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system           | $> 100$ MHz                                |
| Capacity (Core-Core)   | Typ. 20 pF                                 |
| Capacity (Core-Earth)  | Typ. 1 pF                                  |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)    | C1 (500 V / 250 A)                         |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)   | C1 (500 A/250 A)                           |
| Surge carrying capacity in acc. with IEC 61643-21 (Shield-Earth) | C2 (4 kV / 2 kA)                           |

**Connection data**

|                     |  |
|---------------------|--|
| Connection method   | RJ45   |
| Connection type IN  | RJ45 female connector  |
| Connection type OUT | RJ45 female connector  |
| Connection method   | Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI) |

**Connection, protective circuit**

|                       |                |
|-----------------------|----------------|
| Standards/regulations | IEC 61643-21   |
|                       | DIN EN 50173-1 |

## Certificates / Approvals

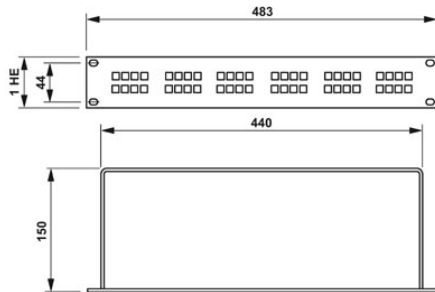


Certification

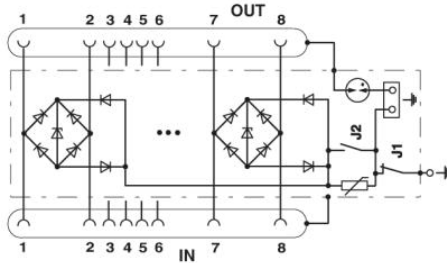
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## Diagrams/Drawings

Dimensioned drawing



Circuit diagram



**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



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