

## Excellent Integrated System Limited

Stocking Distributor

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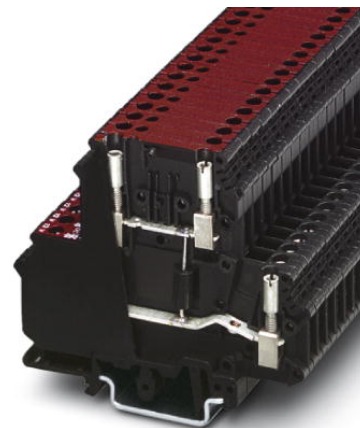
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



Extract from the online catalog

## TT-UKK5-D/ 24DC


Order No.: 2788090



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2788090>

Double-level modular terminal block with suppressor diode as surge protection between both levels, nominal voltage: 24 V DC, for mounting on NS 32 or NS 35/7.5, closed housing, terminal width: 6.2 mm, terminal height: 68 mm

### Commercial data

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 017918 071332 |
| sales group              | J303   |
| Pack                     | 50 pcs.  |
| Customs tariff           | 85363010   |
| Catalog page information | Page 109 (TT-2009)   |

### Product notes

WEEE/RoHS-compliant since:  
03/03/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### General

|                                    |       |
|------------------------------------|-------|
| Housing material                   | PA    |
| Inflammability class acc. to UL 94 | V2    |
| Color                              | black |

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|  |                             |
|--|-----------------------------|
| Standards for air and creepage distances | VDE 0110-1                  |
| Total surge current (8/20) $\mu$ s       | 169 A                       |
| Ambient temperature (operation)          | -40 °C ... 85 °C            |
| Mounting type                            | DIN rail/G-profile rail     |
| Design                                   | Double-level terminal block |
| Degree of protection                     | IP20                        |
| Direction of action                      | Line-Line                   |
| Width                                    | 6.20 mm                     |
| Height                                   | 68.00 mm                    |
| Length                                   | 80.00 mm                    |

**Protective circuit**

|  |                         |
|--|-------------------------|
| IEC category   | C3                      |
| VDE requirement class  | C3                      |
| Nominal voltage $U_N$  | 24 V DC                 |
| Maximum continuous operating voltage $U_c$                                   | 28 V DC                 |
|  | 20 V AC                 |
| Maximum continuous voltage UC (wire-wire)                                    | 28 V DC                 |
|  | 20 V AC                 |
| Nominal current $I_N$  | 16 A                    |
| Operating effective current $I_c$ at $U_c$                                   | $\leq 5$ A              |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s<br>(Core-Core)          | 169 A                   |
| Total surge current (8/20) $\mu$ s   | 169 A                   |
| Max. discharge surge current $I_{max}$ (8/20) $\mu$ s<br>maximum (Core-Core) | 169 A                   |
| Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-<br>Core)             | 33 A                    |
| Output voltage limitation at 1 kV/ $\mu$ s (Core-Core)<br>static             | $\leq 40$ V             |
| Residual voltage at $I_n$ , (conductor-conductor)                            | $\leq 55$ V             |
| Response time $t_A$ (Core-Core)  | $\leq 1$ ns             |
| Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm<br>system                    | Typ. 1.2 MHz            |
| Capacity (Core-Core)   | $\leq 1.6$ nF (typical) |
| Surge carrying capacity in acc. with IEC 61643-21<br>(Core-Core)             | C3 (25 A)               |

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**Connection data**

|  |                       |
|--|-----------------------|
| Type of connection                     | Screw connection      |
| Connection type IN                     | Screw terminal blocks |
| Connection type OUT                    | Screw terminal blocks |
| Screw thread                           | M3                    |
| Tightening torque                      | 0.5 Nm                |
| Stripping length                       | 8 mm                  |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup>   |
| Conductor cross section stranded max.  | 4 mm <sup>2</sup>     |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup>   |
| Conductor cross section solid max.     | 4 mm <sup>2</sup>     |
| Conductor cross section AWG/kcmil min. | 24                    |
| Conductor cross section AWG/kcmil max  | 12                    |

**Connection, protective circuit**

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 61643-21 |
|-----------------------|--------------|

**Certificates / Approvals**

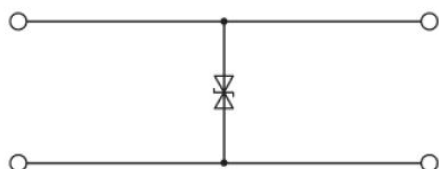


Certification

CSA, GOST

**Diagrams/Drawings**

Circuit diagram



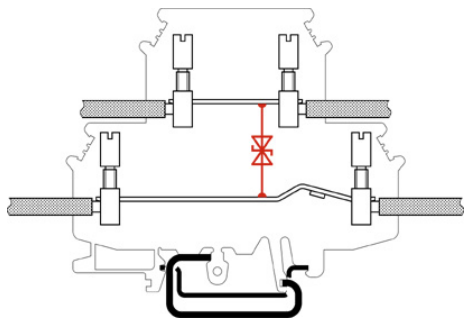
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Schematic diagram

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**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachsmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



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