

## Fuse modular terminal block - PTTB 4-HESILED 24 (5X20) - 3211888

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., connection method: Push-in connection, cross section: 0.2 mm<sup>2</sup>- 6 mm<sup>2</sup>, AWG: 24 - 10, nominal current: 28 A, nom. voltage: 500 V, width: 6.2 mm, fuse type: G / 5 x 20, mounting type: NS 35/7,5, NS 35/15, color: black

### Your advantages

- ✓ The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- ✓ The easily accessible fuse inserts are easy to use or replace
- ✓ Convenient fuse testing, thanks to test points on both sides
- ✓ Quick identification of faulty fuses, thanks to LED status indicator



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 50 pc                                                                                                   |
| Minimum order quantity | 50 pc                                                                                                   |
| GTIN                   | <br>4 055626 380568 |
| GTIN                   | 4055626380568                                                                                           |

### Technical data

#### General

|                                                 |                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------|
| Note                                            | The current is determined by the fuse used, the voltage by the light indicator. |
| Number of levels                                | 2                                                                               |
| Number of connections                           | 4                                                                               |
| Nominal cross section                           | 4 mm <sup>2</sup>                                                               |
| Color                                           | black                                                                           |
| Insulating material                             | PA                                                                              |
| Flammability rating according to UL 94          | V0                                                                              |
| Maximum power dissipation for nominal condition | 1.02 W                                                                          |

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## Technical data

### General

|                                                  |                                                                                                              |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Fuse                                             | G / 5 x 20                                                                                                   |
| Fuse type                                        | Glass / ceramics / ...                                                                                       |
| Rated surge voltage                              | 6 kV                                                                                                         |
| Degree of pollution                              | 3                                                                                                            |
| Overvoltage category                             | III                                                                                                          |
| Insulating material group                        | I                                                                                                            |
| Maximum power dissipation                        | max. 1.6 W (With single arrangement of the fuse terminal block in the event of overload)                     |
|                                                  | max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)        |
|                                                  | max. 4 W (With single arrangement of the fuse terminal block in the event of a short-circuit)                |
|                                                  | max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |
| LED voltage range                                | 12 V AC/DC ... 30 V AC/DC                                                                                    |
| LED current range                                | 0.31 mA ... 0.95 mA                                                                                          |
| Connection in acc. with standard                 | IEC 60947-7-1                                                                                                |
| Maximum load current                             | 32 A                                                                                                         |
| Nominal current $I_N$                            | 28 A                                                                                                         |
| Nominal voltage $U_N$                            | 500 V                                                                                                        |
| Connection in acc. with standard                 | IEC 60947-7-3                                                                                                |
| Maximum load current (upper level)               | 6.3 A (the current is determined by the fuse used)                                                           |
| Nominal current $I_N$ (upper level)              | 6.3 A                                                                                                        |
| Nominal voltage $U_N$                            | 500 V                                                                                                        |
| Rated operating voltage                          | 250 V                                                                                                        |
| Open side panel                                  | No                                                                                                           |
| Shock protection test specification              | DIN EN 50274 (VDE 0660-514):2002-11                                                                          |
| Back of the hand protection                      | guaranteed                                                                                                   |
| Finger protection                                | guaranteed                                                                                                   |
| Oscillation, broadband noise test result         | Test passed                                                                                                  |
| Test specification, oscillation, broadband noise | DIN EN 50155 (VDE 0115-200):2008-03                                                                          |
| Test spectrum                                    | Service life test category 1, class B, body mounted                                                          |
| Test frequency                                   | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$                                                               |
| ASD level                                        | $0.964 \text{ (m/s}^2\text{)}^2/\text{Hz}$                                                                   |
| Acceleration                                     | 0.58 g                                                                                                       |
| Test duration per axis                           | 5 h                                                                                                          |
| Test directions                                  | X-, Y- and Z-axis                                                                                            |
| Shock test result                                | Test passed                                                                                                  |
| Test specification, shock test                   | DIN EN 50155 (VDE 0115-200):2008-03                                                                          |
| Shock form                                       | Half-sine                                                                                                    |
| Acceleration                                     | 5 g                                                                                                          |

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## Technical data

### General

|                                                                         |                                   |
|-------------------------------------------------------------------------|-----------------------------------|
| Shock duration                                                          | 30 ms                             |
| Number of shocks per direction                                          | 3                                 |
| Test directions                                                         | X-, Y- and Z-axis (pos. and neg.) |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                            |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C                            |
| Static insulating material application in cold                          | -60 °C                            |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed                       |
| Flame test method (DIN EN 60695-11-10)                                  | V0                                |
| Oxygen index (DIN EN ISO 4589-2)                                        | >32 %                             |
| NF F16-101, NF F10-102 Class I                                          | 2                                 |
| NF F16-101, NF F10-102 Class F                                          | 2                                 |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                            |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                            |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                            |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3                       |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3                       |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3                       |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3                       |

### Dimensions

|                  |          |
|------------------|----------|
| Width            | 6.2 mm   |
| Length           | 102.9 mm |
| Height NS 35/7,5 | 75.5 mm  |
| Height NS 35/15  | 83 mm    |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                         | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                           | 24                   |
| Conductor cross section AWG max.                                           | 10                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 4 mm <sup>2</sup>    |
| Connection method                                                          | Push-in connection   |
| Stripping length                                                           | 10 mm ... 12 mm      |
| Internal cylindrical gage                                                  | A4                   |

### Standards and Regulations

# Fuse modular terminal block - PTTB 4-HESILED 24 (5X20) - 3211888

## Technical data

### Standards and Regulations

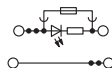
|                                                        |               |
|--------------------------------------------------------|---------------|
| Connection in acc. with standard                       | IEC 60947-7-1 |
|                                                        | IEC 60947-7-3 |
| Flammability rating according to UL 94                 | V0            |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3   |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3   |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

### Circuit diagram



## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | D                                                                                   | B                                                                                                                                       | C     |
| Nominal voltage UN | 600 V                                                                               | 300 V                                                                                                                                   | 300 V |
| Nominal current IN | 5 A                                                                                 | 6.3 A                                                                                                                                   | 6.3 A |
| mm²/AWG/kcmil      | 24-10                                                                               | 24-10                                                                                                                                   | 24-10 |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | D                                                                                 | B                                                                                                                                                     | C            |
| Nominal voltage UN | 600 V                                                                             | 300 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 5 A                                                                               | 6.3 A                                                                                                                                                 | 6.3 A        |
| mm²/AWG/kcmil      | 24-10                                                                             | 24-10                                                                                                                                                 | 24-10        |

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | D                                                                                 | B                                                                                                                                                     | C            |
| Nominal voltage UN | 600 V                                                                             | 300 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 5 A                                                                               | 6.3 A                                                                                                                                                 | 6.3 A        |
| mm²/AWG/kcmil      | 24-10                                                                             | 24-10                                                                                                                                                 | 24-10        |

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-------------------------------------------------------------------------------------|

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