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## High-current terminal block - PTPOWER 35-3L/FE-F - 3212075

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High-current terminal block, nom. voltage: 1000 V, nominal current: 125 A, connection method: Power-Turn connection, number of connections: 8, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, AWG: 12 - 2, width: 64 mm, height: 68.3 mm, color: gray/black-yellow, mounting type: direct screw connection

### Why buy this product

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 2 STK         |
| GTIN         |               |
| GTIN         | 4046356869805 |

### Technical data

#### General

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Number of levels                                | 1                  |
| Number of connections                           | 8                  |
| Potentials                                      | 4                  |
| Nominal cross section                           | 35 mm <sup>2</sup> |
| Color                                           | gray/black-yellow  |
| Insulating material                             | PA                 |
| Flammability rating according to UL 94          | V0                 |
| Rated surge voltage                             | 8 kV               |
| Degree of pollution                             | 3                  |
| Overvoltage category                            | III                |
| Insulating material group                       | I                  |
| Maximum power dissipation for nominal condition | 4.06 W             |

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## Technical data

### General

|                                                                         |                                                         |
|-------------------------------------------------------------------------|---------------------------------------------------------|
| Maximum load current                                                    | 125 A (with 35 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 125 A                                                   |
| Nominal voltage U <sub>N</sub>                                          | 1000 V                                                  |
| Open side panel                                                         | No                                                      |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                                                  |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °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)                        | 27,5 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              | 64 mm    |
| Length             | 120.2 mm |
| Height             | 68.3 mm  |
| Hole diameter      | 5.5 mm   |
| Drill hole spacing | 108 mm   |
| Pitch              | 16 mm    |

### Connection data

|                                                                            |                                                                |
|----------------------------------------------------------------------------|----------------------------------------------------------------|
| Note                                                                       | Please observe the current carrying capacity of the DIN rails. |
| Connection method                                                          | Power-Turn connection                                          |
| Conductor cross section solid min.                                         | 2.5 mm <sup>2</sup>                                            |
| Conductor cross section solid max.                                         | 35 mm <sup>2</sup>                                             |
| Conductor cross section AWG min.                                           | 12                                                             |
| Conductor cross section AWG max.                                           | 2                                                              |
| Conductor cross section flexible min.                                      | 2.5 mm <sup>2</sup>                                            |
| Conductor cross section flexible max.                                      | 35 mm <sup>2</sup>                                             |
| Min. AWG conductor cross section, flexible                                 | 12                                                             |
| Max. AWG conductor cross section, flexible                                 | 2                                                              |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 2.5 mm <sup>2</sup>                                            |

# High-current terminal block - PTPOWER 35-3L/FE-F - 3212075

## Technical data

### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 35 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 35 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 10 mm <sup>2</sup>  |
| Stripping length                                                                        | 25 mm               |

### Standards and Regulations

|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
| Flammability rating according to UL 94                 | V0                                              |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

### Environmental Product Compliance

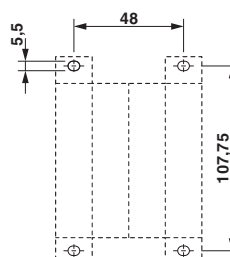
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Circuit diagram



Dimensional drawing



## Approvals

### Approvals

Approvals

CSA / BV / UL Recognized / cUL Recognized / LR / DNV GL / EAC / cULus Recognized

Ex Approvals

### Approval details

# High-current terminal block - PTPOWER 35-3L/FE-F - 3212075

## Approvals

|                            |  |                                                                                                                                         |        |
|----------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631  |
|                            |  | B                                                                                                                                       | C      |
| Nominal voltage UN         |  | 600 V                                                                                                                                   | 1000 V |
| Nominal current IN         |  | 115 A                                                                                                                                   | 115 A  |
| mm <sup>2</sup> /AWG/kcmil |  | 14-2                                                                                                                                    | 14-2   |

|    |  |                                                                                                                                                                                                                               |             |
|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 40933/A1 BV |
|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

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

|                            |  |                                                                                                                                                       |              |
|----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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 |
|                            |  | C                                                                                                                                                     |              |
| Nominal voltage UN         |  | 1000 V                                                                                                                                                |              |
| Nominal current IN         |  | 115 A                                                                                                                                                 |              |
| mm <sup>2</sup> /AWG/kcmil |  | 14-2                                                                                                                                                  |              |

|    |  |                                                         |          |
|----|--|---------------------------------------------------------|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 15/20030 |
|----|--|---------------------------------------------------------|----------|

|        |  |                                                                           |            |
|--------|--|---------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00000Z9 |
|--------|--|---------------------------------------------------------------------------|------------|

|     |  |  |                          |
|-----|--|--|--------------------------|
| EAC |  |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--|--------------------------|

|                  |  |                                                                                                                                                       |  |
|------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| cULus 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> |  |
|------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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