

## High-current terminal block - PTPOWER 150-FE-F - 3215032

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High-current terminal block, Connection method: Power-Turn connection, Number of positions: 1, Cross section: 50 mm<sup>2</sup> - 150 mm<sup>2</sup>, AWG: 1/0 - 300 kcmil, Width: 31 mm, Height: 108.3 mm, Color: black/yellow, Mounting type: ct 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 enables wiring in a confined space
- ✓ In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables

RoHS

### Key Commercial Data

|                        |          |
|------------------------|----------|
| Packing unit           | 1 STK    |
| Minimum order quantity | 3 STK    |
| Custom tariff number   | 85369010 |
| Country of origin      | Poland   |

### Technical data

#### General

|                                        |                     |
|----------------------------------------|---------------------|
| Number of positions                    | 1                   |
| Number of levels                       | 1                   |
| Number of connections                  | 2                   |
| Potentials                             | 1                   |
| Nominal cross section                  | 150 mm <sup>2</sup> |
| Color                                  | black/yellow        |
| Insulating material                    | PA                  |
| Flammability rating according to UL 94 | V0                  |
| Rated surge voltage                    | 8 kV                |

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## Technical data

### General

|                                                                         |                                                          |
|-------------------------------------------------------------------------|----------------------------------------------------------|
| Degree of pollution                                                     | 3                                                        |
| Overvoltage category                                                    | III                                                      |
| Insulating material group                                               | I                                                        |
| Maximum load current                                                    | 309 A (with 150 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 309 A                                                    |
| Nominal voltage U <sub>N</sub>                                          | 1500 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)) | 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              | 31 mm    |
| Length             | 150 mm   |
| Height             | 108.3 mm |
| Hole diameter      | 6.5 mm   |
| Drill hole spacing | 137.2 mm |
| Pitch              | 31 mm    |

### Connection data

|                                    |                       |
|------------------------------------|-----------------------|
| Connection method                  | Power-Turn connection |
| Connection in acc. with standard   | IEC 60947-7-1         |
| Conductor cross section solid min. | 50 mm <sup>2</sup>    |
| Conductor cross section solid max. | 150 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 1/0                   |

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### Technical data

#### Connection data

|                                                                                        |                     |
|----------------------------------------------------------------------------------------|---------------------|
| Conductor cross section AWG max.                                                       | 300 kcmil           |
| Conductor cross section flexible min.                                                  | 50 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                                  | 150 mm <sup>2</sup> |
| Min. AWG conductor cross section, flexible                                             | 1/0                 |
| Max. AWG conductor cross section, flexible                                             | 300 kcmil           |
| Conductor cross section flexible, with ferrule without plastic sleeve min.             | 50 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve max.             | 95 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                | 50 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                | 95 mm <sup>2</sup>  |
| Cross section with insertion bridge solid min.                                         | 50 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.                                        | 150 mm <sup>2</sup> |
| Cross section with insertion bridge stranded min.                                      | 50 mm <sup>2</sup>  |
| Cross section with insertion bridge, stranded max.                                     | 150 mm <sup>2</sup> |
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve min. | 50 mm <sup>2</sup>  |
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve max. | 95 mm <sup>2</sup>  |
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve min. | 50 mm <sup>2</sup>  |
| Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.    | 95 mm <sup>2</sup>  |
| Cross section with insertion bridge, solid max.                                        | 150 mm <sup>2</sup> |
| Cross section with insertion bridge, stranded max.                                     | 150 mm <sup>2</sup> |
| Stripping length                                                                       | 40 mm               |
| Internal cylindrical gage                                                              | B14                 |

#### Standards and Regulations

|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

#### Environmental Product Compliance

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

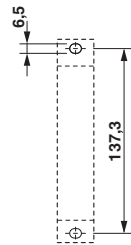
### Drawings

High-current terminal block - PTPOWER 150-FE-F - 3215032

Circuit diagram



Dimensional drawing



Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

EAC EAC-Zulassung

LR <http://www.lr.org/en/15/20030>

BV <http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials/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 |        |        |
|                                                                                                                                                                                                                                                                      | B      | C      |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                        | 2-300  | 2-300  |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                       | 270 A  | 270 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                       | 1000 V | 1000 V |

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### Approvals

|                                                                                                                                                                                                                                                                     |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 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      |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                       | 2-300  |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                      | 270 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                      | 1000 V |

|                                                                                                                                                                                                                                                                                       |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CSA  <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> 13631 |        |
|                                                                                                                                                                                                                                                                                       | C      |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                                         | 2-300  |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                                        | 270 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                                        | 1000 V |

|                                                                               |
|-------------------------------------------------------------------------------|
| DNV GL <a href="https://www.dnvgl.com/">https://www.dnvgl.com/</a> TAE00000Z9 |
|-------------------------------------------------------------------------------|

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