

High-current terminal block - PTPOWER 185-3L/FE - 1054730

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High-current terminal block, Blocked, nom. voltage: 1500 V DC / 1000 V AC, nominal current: 309 A, connection method: Power-Turn connection, number of connections: 8, number of positions: 4, cross section: 95 mm² - 185 mm², AWG: 3/0 - 350 kcmil, width: 124 mm, color: gray/black-yellow, mounting type: NS 35/15

Your advantages

- ✓ Quick and easy connection is now also possible for large conductors with the high-current terminal block
- ✓ The compact design enables wiring in a confined space
- ✓ 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
- ✓ In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 690384 |
| GTIN | 4055626690384 |

Technical data

General

| | |
|--|---------------------|
| Number of positions | 4 |
| Number of levels | 1 |
| Number of connections | 8 |
| Potentials | 4 |
| Nominal cross section | 150 mm ² |
| 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 |

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Technical data

General

| | |
|--|--|
| Insulating material group | I |
| Maximum load current | 309 A (with 150 mm ² conductor cross section) |
| Nominal current I _N | 309 A |
| Nominal voltage U _N | 1500 V DC |
| | 1000 V AC |
| Open side panel | No |
| Ambient temperature (operation) | -60 °C ... 85 °C |
| Ambient temperature (storage/transport) | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |

Dimensions

| | |
|-----------------|----------|
| Width | 124 mm |
| Length | 116.4 mm |
| Height NS 35/15 | 108.7 mm |
| Pitch | 31 mm |

Connection data

| | |
|--|-----------------------|
| Connection | 1 level |
| Connection method | Power-Turn connection |
| Stripping length | 40 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 95 mm ² |
| Conductor cross section solid max. | 185 mm ² |
| Conductor cross section AWG min. | 3/0 |
| Conductor cross section AWG max. | 350 kcmil |
| Conductor cross section flexible min. | 95 mm ² |
| Conductor cross section flexible max. | 185 mm ² |
| Min. AWG conductor cross section, flexible | 3/0 |
| Max. AWG conductor cross section, flexible | 350 kcmil |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 95 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 150 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 95 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 150 mm ² |
| Cross section with insertion bridge solid min. | 95 mm ² |
| Cross section with insertion bridge, solid max. | 150 mm ² |
| Cross section with insertion bridge stranded min. | 95 mm ² |
| Cross section with insertion bridge, stranded max. | 150 mm ² |
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve min. | 95 mm ² |

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Technical data

Connection data

| | |
|--|--|
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve max. | 120 mm ² |
| Cross section with insertion bridge stranded, with ferrule without plastic sleeve min. | 95 mm ² |
| Cross section with insertion bridge stranded, with ferrule with plastic sleeve max. | 120 mm ² |
| Connection cross sections directly pluggable | 95 mm ² 185 mm ² |
| Conductor cross section solid min. | 95 mm ² |
| Conductor cross section solid max. | 185 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 95 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 150 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 95 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 150 mm ² |
| 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 |

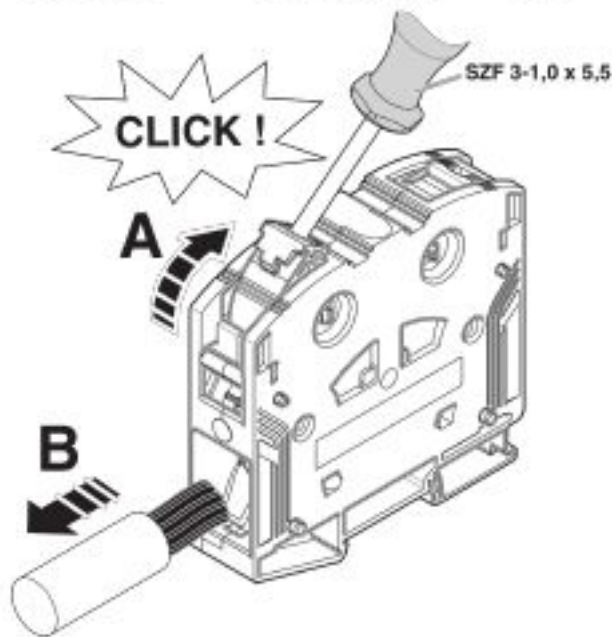
Drawings

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Schematic diagram

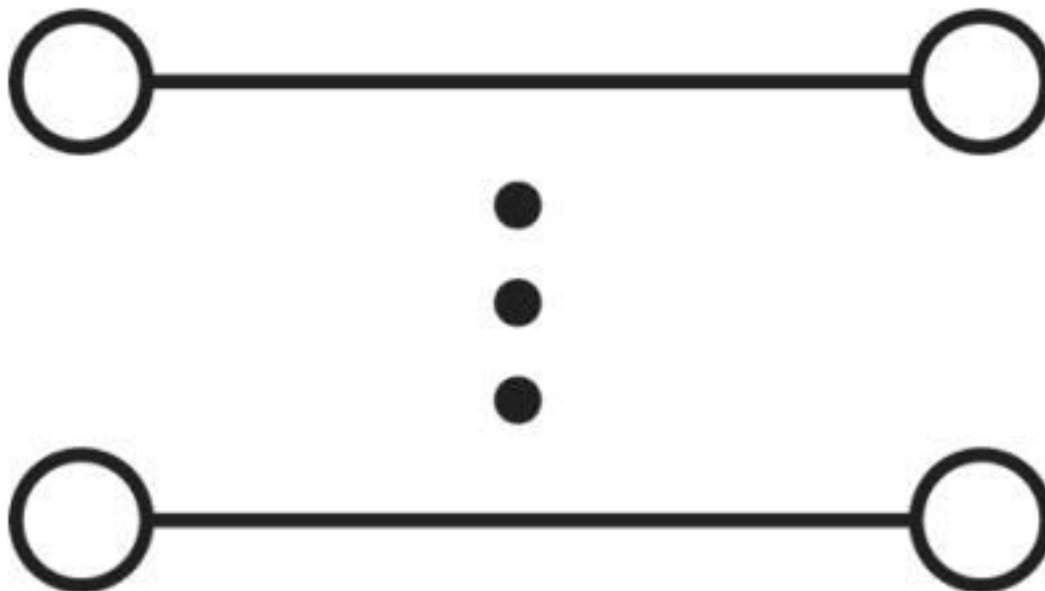
PTPOWER

| | |  |
|----------------|---|--|
| AGK 10-PTPOWER | 0,5 mm ² ... 16 mm ² | 18 mm |
| PTPOWER 35 | 2,5 mm ² ... 35 mm ² | 25 mm |
| PTPOWER 50 | 0,5 mm ² ... 50 mm ² | 32 mm |
| PTPOWER 95 | 0,5 mm ² ... 95 mm ² | 40 mm |
| PTPOWER 185 | 0,5 mm ² ... 185 mm ² | 40 mm |



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Circuit diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Approvals

Approvals

Approvals

EAC / UL Recognized / EAC / DNV GL

Ex Approvals

Approval details

| | | | |
|-----|--|--|----------------------|
| EAC | | | RU C-DE.AI30.B.01102 |
|-----|--|--|----------------------|

| | | | |
|---------------|--|---|--------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|---------------|--|---|--------------|

| | | | |
|-----|--|--|----------------------|
| EAC | | | RU C-DE.BL08.B.00644 |
|-----|--|--|----------------------|

| | | | |
|--------|--|---|------------|
| DNV GL | | https://approvalfinder.dnvgl.com/ | TAE00000Z9 |
|--------|--|---|------------|

Accessories

Accessories

Cable end sleeve

Ferrule - A 95 -40 - 3241242



Ferrule, length: 40 mm, color: silver

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Ferrule - A 120 -40 - 1090640



Ferrule, length: 40 mm, color: silver

Crimping tool

Crimping pliers - CRIMPFOX 50R - 1212041



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 35 mm² ... 50 mm², lateral entry, WM crimp

Crimping pliers - CRIMPFOX-M - 1212072



Basic pliers, for accommodating dies for a wide range of type of contacts

Crimping pliers - CRIMPFOX-C120 - 1212318



Basic pliers, for accommodating dies for a wide range of type of contacts up to 120 mm²

DIN rail

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

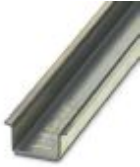


DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

Documentation

Mounting material - PTPOWER-IL - 1180891



Operating decal for the PTPOWER

End block

End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

Insertion bridge

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Insertion bridge - EB 2-31/PT - 3215057

Insertion bridge, pitch: 31 mm, length: 78.4 mm, width: 54.7 mm, number of positions: 2, color: red



Insertion bridge - EB 3-31/PT - 3215058

Insertion bridge, pitch: 31 mm, length: 78.4 mm, width: 85.7 mm, number of positions: 3, color: red



Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Labeled terminal marker

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:U-N - 1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Marker for terminal blocks - UCT-TM 10 CUS - 0829623



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER - 3260145



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: gray, mounting type: on base element

Pick-off terminal block - AGK 10-PTPOWER BU - 3260148



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: blue, mounting type: on base element

Pick-off terminal block - AGK 10-PTPOWER GN/YE - 3260151



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: green/yellow, mounting type: on base element

Pick-off terminal block - AGK 10-PTPOWER BK/YE - 3260154



Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 Power-Turn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 18.5 mm, height: 34.7 mm, color: black/yellow, mounting type: on base element

Planning and marking software

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

Screwdriver tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

Terminal marking

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

High-current terminal block - PTPOWER 185-3L/FE - 1054730

Accessories

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Warning label printed

Cover - CEC PTPOWER 95/185 - 1056087



Cover, yellow, labeled: Lightning flash, mounting type: plug in

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