

Distribution block - PTFIX 10/18X4 BK - 3273914

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Distribution block, nom. voltage: 450 V, nominal current: 32 A, connection method: Push-in connection, Push-in connection, number of connections: 19, cross section: 0.2 mm² - 6 mm², AWG: 24 - 10, width: 64.8 mm, height: 21.7 mm, color: black, mounting type: for snapping onto a DIN rail adapter

Your advantages

- ✓ Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- ✓ Clear wiring, thanks to eleven different color variants
- ✓ Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ✓ Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting



Key Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Packing unit | 8 pc |
| Minimum order quantity | 8 pc |
| GTIN | |
| GTIN | 4055626668291 |
| Weight per Piece (excluding packing) | 22.220 g |
| Custom tariff number | 85369010 |
| Country of origin | Poland |
| Note | Made to Order (non-returnable) |

Technical data

General

| | |
|-------------------------------|--------------------|
| Number of levels | 1 |
| Number of connections | 19 |
| Potentials | 1 |
| Nominal cross section | 4 mm ² |
| Nominal cross section feed-in | 10 mm ² |
| Color | black |

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Technical data

General

| | |
|--|--|
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 6 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum load current | 41 A |
| Maximum total current | 63 A |
| Nominal current I_N | 32 A |
| Nominal voltage U_N | 450 V |
| Maximum load current | 57 A |
| Nominal current I_N | 57 A |
| 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) |
| Moisture, minimum (storage/transport) | 30 % |
| Moisture, maximum (storage/transport) | 70 % |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Oscillation, broadband noise test result | Test passed |
| Test specification, oscillation, broadband noise | DIN EN 50155 (VDE 0115-200):2018-05 |
| Test spectrum | Service life test category 2, bogie-mounted |
| Test frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12 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):2018-05 |
| Shock form | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 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 |

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Technical data

General

| | |
|---|-------------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Static insulating material application in cold | -60 °C |
| 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 | 64.8 mm |
| Length | 28.6 mm |
| Height | 21.7 mm |

Connection data

| | |
|--|----------------------|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Connection in acc. with standard | IEC 60998-2-2 |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 10 |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Min. AWG conductor cross section, flexible | 24 |
| Max. AWG conductor cross section, flexible | 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.2 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.2 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 4 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1 mm ² |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.75 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 4 mm ² |

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Technical data

Connection data

| | |
|--|---------------------|
| Internal cylindrical gage | A4 |
| Connection | Feed-in stage |
| Connection method | Push-in connection |
| Stripping length | 12 mm ... 14 mm |
| Connection in acc. with standard | IEC 60998-2-2 |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 10 mm ² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 6 |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 10 mm ² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 8 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 10 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 10 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 4 mm ² |

Standards and Regulations

| | |
|--|---------------|
| Connection in acc. with standard | IEC 60998-2-2 |
| | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0 |

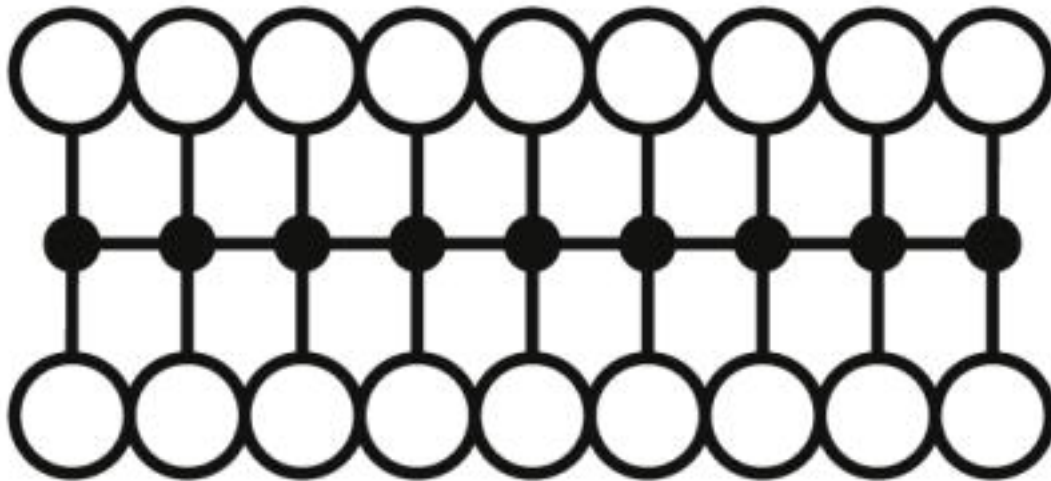
Environmental Product Compliance

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

Drawings

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Circuit diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 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 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| 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 |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

Approvals


Approvals


Approvals


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

Ex Approvals

Approval details

| | | | |
|----------------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 57 A | 57 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

| | | | |
|----------------------------|---|---|--------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 57 A | 57 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

| | | | |
|----------------------------|---|---|--------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 57 A | 57 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

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Approvals

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

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

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

Accessories

Accessories

Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red

Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: gray

Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

Labeled terminal marker

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Accessories

Marker card - SK 6,2/3,8:FORTL.ZAHLEN - 0804374



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 6.2 mm, lettering field size: 6.2 x 3.8 mm

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 1-10 - 0804374:0001



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 1 ... 10, 10-section marker strips with 12 identical decades, white

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 11-20 - 0804374:0011



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 11 ... 20, 10-section marker strips with 12 identical decades, white

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 21-30 - 0804374:0021



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 21 ... 30, 10-section marker strips with 12 identical decades, white

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 31-40 - 0804374:0031



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 31 ... 40, 10-section marker strips with 12 identical decades, white

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Accessories

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 41-50 - 0804374:0041



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 41 ... 50, 10-section marker strips with 12 identical decades, white

Mounting material

Flange - PTFIX-F - 3274060



Flange, with screw-on fixing, length: 28.6 mm, width: 8.6 mm, height: 21.7 mm, color: gray

DIN rail adapter - PTFIX-NS15A - 3274058



DIN rail adapter, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

DIN rail adapter - PTFIX-NS15A-FIX - 3274059



DIN rail adapter, with end stop function, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

DIN rail adapter - PTFIX-NS35 - 3274054



DIN rail adapter, length: 58.1 mm, width: 28.6 mm, height: 11 mm, color: gray

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Accessories

DIN rail adapter - PTFIX-NS35A - 3274056

DIN rail adapter, length: 45.7 mm, width: 10.3 mm, height: 11.9 mm, color: gray



DIN rail adapter - PTFIX-NS35A-FIX - 3274057

DIN rail adapter, with end stop function, length: 45.7 mm, width: 10.3 mm, height: 12 mm, color: gray



Terminal marking

Marker for terminal blocks - US-TML (104X3,8) - 0830768

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22



Marker for terminal blocks - US-TML (104X2,8) - 0830767

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26



Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440



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Accessories

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

Marking foil for zack marker strip - TML (104X2,8)R - 0801832



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

Marking foil for zack marker strip - TML (EX2,8)R - 0801836



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1