

Distribution block - PTFIX 6X10/S GN



1082391

<https://www.phoenixcontact.com/us/products/1082391>

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Distribution block, bridged internally, nom. voltage: 450 V, nominal current: 57 A, connection method: Push-in connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: green

Commercial Data

Item number	1082391
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	B02
Product Key	BEA113
GTIN	4055626812571
Weight per Piece (including packing)	26.87 g
Weight per Piece (excluding packing)	24.805 g
Customs tariff number	85369010
Country of origin	PL

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1082391

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Technical Data

Notes

General

Note	For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.
	Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.
	When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

Product properties

Product type	Distributor terminal block
Number of connections	6
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.82 W

Connection data

Number of connections per level	6
Nominal cross section	10 mm ²
Stripping length	12 mm ... 14 mm
Internal cylindrical gage	A5
Conductor cross section solid	0.5 mm ² ... 16 mm ²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 10 mm ²
Conductor cross section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Nominal current	57 A
Maximum load current	76 A (with a 16 mm ² conductor cross section, rigid)
Maximum total current	90 A (The load current of all connected conductors must not exceed the maximum total current.)
Nominal voltage	450 V
Nominal cross section	10 mm ²

Connection cross sections directly pluggable

Conductor cross section solid	1 mm ² ... 16 mm ²
Conductor cross section flexible	1 mm ² ... 10 mm ²

Distribution block - PTFIX 6X10/S GN



1082391

<https://www.phoenixcontact.com/us/products/1082391>

Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	1 mm ² ... 10 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm ² ... 6 mm ²

Dimensions

Width	37 mm
Height	25.1 mm
Length	24.5 mm

Material specifications

Color	green
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Attachment on the carrier

DIN rail/fixing support	NS 35/NS 15
Result	Test passed
Note	For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block. When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

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1082391

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Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60998-2-2
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Mounting

Mounting type	for snapping onto a DIN rail adapter
	Direct mounting with flange
	Free-hanging

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1082391

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Drawings

Circuit diagram



Distribution block - PTFIX 6X10/S GN




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Approvals

 IECEE CB Scheme Approval ID: DE1-63780				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	450 V	57 A	-	- 10

 EAC Approval ID: RU C-DE.AI30.B.01102				
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 VDE Zeichengenehmigung Approval ID: 40047798				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	450 V	57 A	-	0.5 - 10

 CSA Approval ID: 158887				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	600 V	60 A	20 - 6	-
Use group C	600 V	60 A	20 - 6	-
Use group D	600 V	5 A	20 - 6	-

 cULus Recognized Approval ID: E60425				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	600 V	60 A	20 - 6	-
Use group C	600 V	60 A	20 - 6	-
Use group D	600 V	5 A	20 - 6	-

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Classifications

ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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1082391

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Environmental Product Compliance

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

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1082391

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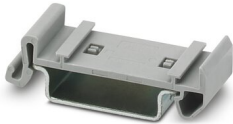
Accessories

DIN rail adapter

DIN rail adapter - PTFIX 10/S-NS35A - 1082915

<https://www.phoenixcontact.com/us/products/1082915>

DIN rail adapter, length: 45.7 mm, width: 16.3 mm, color: gray



Flange

Flange - PTFIX 10/S-F - 1082917

<https://www.phoenixcontact.com/us/products/1082917>

Flange, with screw-on fixing, length: 37 mm, width: 8.6 mm, height: 25.1 mm, color: gray



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1082391

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DIN rail adapter

DIN rail adapter - PTFIX-NS35 - 3274054

<https://www.phoenixcontact.com/us/products/3274054>

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



Marker for terminal blocks

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

<https://www.phoenixcontact.com/us/products/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



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1082391

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Marker for terminal blocks

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

<https://www.phoenixcontact.com/us/products/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

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

<https://www.phoenixcontact.com/us/products/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

Distribution block - PTFIX 6X10/S GN



1082391

<https://www.phoenixcontact.com/us/products/1082391>

Marker card

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

<https://www.phoenixcontact.com/us/products/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

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

<https://www.phoenixcontact.com/us/products/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

Distribution block - PTFIX 6X10/S GN



1082391

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Marking foil for zack marker strip

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

<https://www.phoenixcontact.com/us/products/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

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

<https://www.phoenixcontact.com/us/products/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

Distribution block - PTFIX 6X10/S GN



1082391

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Marking foil for zack marker strip

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

<https://www.phoenixcontact.com/us/products/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

Label

Label - MM-TML (EX3,8)R C1 WH/BK - 1092026

<https://www.phoenixcontact.com/us/products/1092026>



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 2.8 mm

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