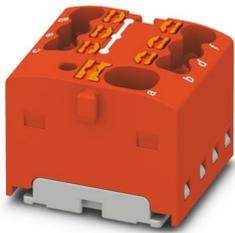# PTFIX 4/6X1,5 RD - Distribution block

1047468

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Distribution block, Basic terminal block with supply, nom. voltage: 450 V, nominal current: 17.5 A, number of connections: 7, connection method: Push-in connection, Load contact, cross section: 0.14 mm^2 - 2.5 mm^2, Line contact, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 6 mm^2, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: red

Commercial data

Item number	1047468
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	BE09
Product key	BEA122
GTIN	4055626665733
Weight per piece (including packing)	8.74 g
Weight per piece (excluding packing)	8 g
Customs tariff number	85369010
Country of origin	PL

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

Technical data

Notes

General

Note	For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!
	The maximum load current of a single clamping unit must not be exceeded.

Product properties

Product type	Distributor terminal block
Number of connections	7
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Service Entrance	yes
Number of connections per level	7
Nominal cross section	1.5 mm²
Rated cross section AWG	14

Load contact

Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60998-2-2
Conductor cross-section rigid	0.14 mm² ... 2.5 mm²
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² ... 2.5 mm²
Conductor cross-section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² ... 1.5 mm²
Nominal current	17.5 A
Maximum load current	41 A
Maximum total current	32 A
Nominal voltage	450 V

Line contact

Stripping length	10 mm ... 12 mm
Connection in acc. with standard	IEC 60998-2-2
Conductor cross-section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 6 mm²
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.2 mm² ... 4 mm²
Nominal current	41 A
Maximum load current	41 A (with 6 mm² conductor connection)
Maximum total current	41 A
Nominal cross section	4 mm²

Load contact Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm² ... 2.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm² ... 1.5 mm²

Line contact Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm² ... 6 mm²
Conductor cross-section, rigid [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.34 mm² ... 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.2 mm² ... 4 mm²

Dimensions

Width	19 mm
Height	21.6 mm
Depth	17.7 mm

Material specifications

Color	red (RAL 3001)
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))	125 °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)	27,5 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

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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 ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

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

Circuit diagram

PTFIX 4/6X1,5 RD - Distribution block
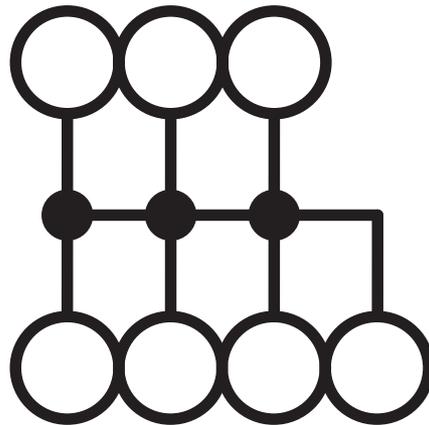
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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1047468

DNV
Approval ID: TAE00002TT-05

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	24 A	-	-

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Output	300 V	20 A	26 - 12	-
Input	300 V	30 A	24 - 10	-
C				
Output	150 V	20 A	26 - 12	-
Input	150 V	30 A	24 - 10	-

IECEE CB Scheme
Approval ID: DE1-63084

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	450 V	32 A	-	- 4

EAC
Approval ID: RU C-DE.BL08.B.00644

VDE Zeichengenehmigung
Approval ID: 40047798

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Output	300 V	20 A	26 - 12	-
Input	300 V	30 A	24 - 10	-
C				
Output	150 V	20 A	26 - 12	-
Input	150 V	30 A	24 - 10	-

EAC
Approval ID: KZ7500651131219505

PTFIX 4/6X1,5 RD - Distribution block

Classifications

ECLASS

ECLASS-13.0	27250118
ECLASS-15.0	27250118

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

PTFIX 4/6X1,5 RD - Distribution block

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

PTFIX 4/6X1,5 RD - Distribution block

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Accessories

> ℹ️ Note: Applying some accessories below might limit this product.

FBS 2-4 - Plug-in bridge

3030116

https://www.phoenixcontact.com/us/products/3030116

Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: red

ℹ️ Max. current carrying capacity: 17.5 A

FBS 2-4 GY - Plug-in bridge

3030118

https://www.phoenixcontact.com/us/products/3030118

Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: gray

ℹ️ Max. current carrying capacity: 17.5 A

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

FBS 2-4 BU - Plug-in bridge

3030117

https://www.phoenixcontact.com/us/products/3030117

Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: blue

ⓘ Max. current carrying capacity: 17.5 A

PTFIX 1,5-F - Flange

1049503

https://www.phoenixcontact.com/us/products/1049503

Flange, With screw fixing, for direct mounting of the 1.5 mm^2 FIX blocks, depth: 17.7 mm, width: 7.7 mm, height: 21.6 mm, color: gray, mounting type: Screw mounting

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

PTFIX 1,5-NS15A - DIN rail adapter

1049500

https://www.phoenixcontact.com/us/products/1049500

DIN rail adapter, for NS 15 for accommodating 1.5 mm^2 FIX blocks in horizontal direction, color: gray

PTFIX 1,5-NS35 - DIN rail adapter

1049497

https://www.phoenixcontact.com/us/products/1049497

DIN rail adapter, for NS 35 and NS 15 for accommodating 1.5 mm^2 FIX blocks in vertical direction, color: gray

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

PTFIX 1,5-NS35AD - DIN rail adapter

1049498

https://www.phoenixcontact.com/us/products/1049498

DIN rail adapter, for NS 35 for accommodating two 1.5 mm^2 FIX blocks in horizontal direction, color: gray

PTFIX 1,5-RZF - Mounting adapter

1050613

https://www.phoenixcontact.com/us/products/1050613

Adapter for direct mounting

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

PTFIX 1,5-RZ - Mounting adapter

1632415

https://www.phoenixcontact.com/us/products/1632415

Securing pin adapter, for direct mounting of 1.5 mm^2 FIX blocks, color: gray

ISH 1,5/0,2 - Insulating sleeve

3206131

https://www.phoenixcontact.com/us/products/3206131

Insulating sleeve, color: white

PTFIX 4/6X1,5 RD - Distribution block

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ISH 1,5/0,5 - Insulating sleeve

3031034

https://www.phoenixcontact.com/us/products/3031034

Insulating sleeve, color: gray

SK 3,8 REEL P4,15 WH CUS - Marker card

0825990

https://www.phoenixcontact.com/us/products/0825990

Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

TML (EX3,8)R - Marker strip

0801837

https://www.phoenixcontact.com/us/products/0801837

Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 12, roll length: 30 m, text field height: 3.8 mm, text field width: 30000 mm

TML (104X3,8)R - Marker strip

0801833

https://www.phoenixcontact.com/us/products/0801833

Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 3.8 mm, text field width: 104 mm

PTFIX 4/6X1,5 RD - Distribution block

1047468

https://www.phoenixcontact.com/us/products/1047468

TML (104X2,8)R - Marker strip

0801832

https://www.phoenixcontact.com/us/products/0801832

Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 2.8 mm, text field width: 104 mm

TML (EX2,8)R - Marker strip

0801836

https://www.phoenixcontact.com/us/products/0801836

Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 14, roll length: 30 m, text field height: 2.8 mm, text field width: 30000 mm
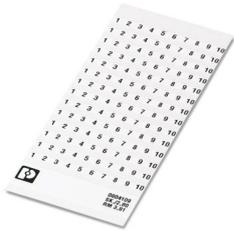
PTFIX 4/6X1,5 RD - Distribution block

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SK 2,8 REEL P4,15 WH CUS - Marker card

8199987

https://www.phoenixcontact.com/us/products/8199987

Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm

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

0830768

https://www.phoenixcontact.com/us/products/0830768

Marker for terminal blocks, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2. 0, mounting type: adhesive, Number of individual labels: 22, text field height: 3.8 mm, text field width: 104 mm

PTFIX 4/6X1,5 RD - Distribution block

1047468

https://www.phoenixcontact.com/us/products/1047468

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

0830767

https://www.phoenixcontact.com/us/products/0830767

Marker for terminal blocks, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 26, text field height: 2.8 mm, text field width: 104 mm

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

0803906

https://www.phoenixcontact.com/us/products/0803906

Marker card, Din A4, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 1440, text field height: 3.8 mm, text field width: 186 mm

PTFIX 4/6X1,5 RD - Distribution block

1047468

https://www.phoenixcontact.com/us/products/1047468

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

0803883

https://www.phoenixcontact.com/us/products/0803883

Marker card, Din A4, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 3600, text field height: 2.8 mm, text field width: 186 mm

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

1092026

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

Label, Roll, white/black, unmarked, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, Number of individual labels: 1, roll length: 8 m, text field height: 3.8 mm, text field width: 8000 mm

PTFIX 4/6X1,5 RD - Distribution block

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https://www.phoenixcontact.com/us/products/1047468

MPS-MT 1-S4-B RD - Accessories

1982800

https://www.phoenixcontact.com/us/products/1982800

Test plug terminal block

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