PHŒNIX CONTACT

Distribution block - PTFIX 4/12X1,5 RD - 1046963

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Distribution block, Basic terminal block with supply, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, Push-in connection, number of connections: 13, cross section: 0.14 mm² - 2.5 mm², AWG: 26 - 14, width: 31.4 mm, height: 17.7 mm, color: red, mounting type: for snapping onto a DIN rail adapter

RoHS

COMPLETE line

Key Commercial Data

Packing unit	20 pc
GTIN	4 055626 668888
GTIN	4055626668888

Technical data

General

Number of levels	1
Number of connections	13
Nominal cross section	1.5 mm²
Nominal cross section feed-in	4 mm²
Color	red
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	22 A (with a 2.5 mm² conductor cross section)
Maximum total current	32 A
Nominal current I_N	17.5 A
Nominal voltage U_N	450 V
Maximum load current	41 A (with 6 mm² conductor connection)
Maximum total current	41 A

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Technical data

General

Nominal current I_N	41 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)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
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 Hz to f_2 = 250 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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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	31.4 mm
Length	21.6 mm
Height	17.7 mm

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Technical data

Connection data

Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm²
Connection cross sections directly pluggable	0.34 mm² 2.5 mm²
Conductor cross section solid min.	0.34 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.34 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.34 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm²
Internal cylindrical gage	A3
Connection	Feed-in stage
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 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.2 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.2 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²

Standards and Regulations

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Standards and Regulations

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

Drawings

Circuit diagram
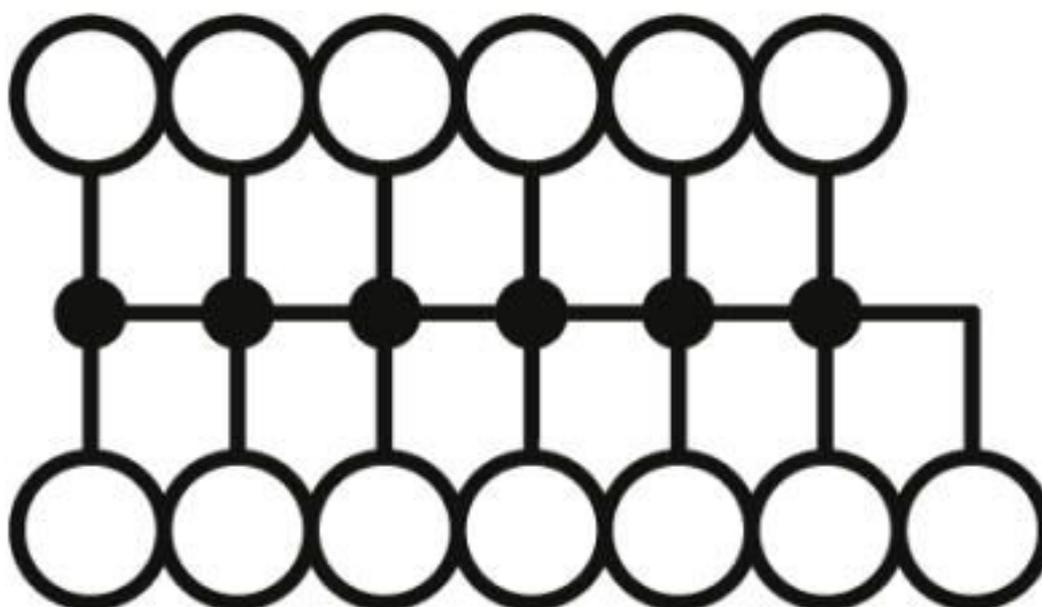
Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 11.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

Approvals

Approvals

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Approvals

Approvals

EAC / UL Recognized / cUL Recognized / CSA / IECEE CB Scheme / VDE Zeichengenehmigung / DNV GL / EAC / LR / BV / cULus Recognized

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

	B	C
Nominal voltage UN	300 V	150 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	24-10	24-10

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

	B	C
Nominal voltage UN	300 V	150 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	24-10	24-10

CSA	http://www.csagroup.org/services-industries/product-listing/	13631

	B	C
Nominal voltage UN	300 V	150 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	24-10	24-10

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-61977

Nominal voltage UN	450 V

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Approvals

Nominal current IN	32 A
mm²/AWG/kcmil	4

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40047798
Nominal voltage UN		450 V	
Nominal current IN		32 A	
mm²/AWG/kcmil		0.2-1.5	

DNV GL		https://approvalfinder.dnvgl.com/	TAE00002TT
Nominal voltage UN		500 V	
Nominal current IN		24 A	

EAC			RU C-DE.BL08.B.00644

LR		http://www.lr.org/en	LR2002627TA

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/ approved/approvedProducts/equipmentAndMaterials	59146/A0 BV

cULus Recognized			

Accessories

Accessories

Insulating sleeve

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Accessories

Insulating sleeve - ISH 1,5/0,2 - 3206131

Insulating sleeve, color: white

Insulating sleeve - ISH 1,5/0,5 - 3031034

Insulating sleeve, color: gray

Jumper

Plug-in bridge - FBS 2-4 - 3030116

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

Plug-in bridge - FBS 2-4 GY - 3030118

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

Plug-in bridge - FBS 2-4 BU - 3030117

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

Labeled terminal marker

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Accessories

Marker card - SK 3,8 REEL P4,15 WH CUS - 0825990

Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 3.8#mm

Marker card - SK 2,8 REEL P4,15 WH CUS - 8199987

Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 2.8#mm

Marker card - SK 3,8 REEL P4,15 WH CUS - 8199988

Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 3.8#mm

Mounting material

Flange - PTFIX 1,5-F - 1049503

Flange, with screw-on fixing, width: 7.7 mm, height: 17.7 mm, color: gray, mounting type: Screw mounting

DIN rail adapter - PTFIX 1,5-NS15A - 1049500

DIN rail adapter, length: 21.6 mm, width: 8 mm, height: 10.85 mm

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Accessories

DIN rail adapter - PTFIX 1,5-NS35 - 1049497

DIN rail adapter, length: 58.1 mm, width: 21.6 mm, height: 11 mm

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Support bracket - PTFIX 1,5-NS35AD - 1049498

Support bracket, width: 8 mm

Assembly adapters - PTFIX 1,5-RZF - 1050613

Adapter for direct mounting

Terminal marking

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

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Accessories

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

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

Label - MM-TML (EX3,8)R C1 WH/BK - 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 3.8#mm

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Test plug terminal block

Accessories - MPS-MT 1-S4-B RD - 1982800

Accessories, number of positions: 1, pitch: 0 mm