PTFIX 6/18X2,5-G BN - Distribution block

3273514

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Distribution block, Basic terminal block with supply, nom. voltage: 450 V, nominal current: 24 A, number of connections: 19, connection method: Push-in connection, Load contact, cross section: 0.14 mm^2 - 4 mm^2, Push-in connection, Line contact, Rated cross section: 6 mm^2, cross section: 0.5 mm^2 - 10 mm^2, mounting type: adhesive, color: brown

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

Commercial data

Item number	3273514
Packing unit	1 pc
Minimum order quantity	8 pc
Sales key	BE09
Product key	BEA124
Catalog page	Page 444 (C-1-2019)
GTIN	4055626393346
Weight per piece (including packing)	42.5 g
Weight per piece (excluding packing)	42.5 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Notes

General	the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories

General

Note	The maximum load current of a single clamping unit must not be exceeded.
	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!

Product properties

Product type	Distributor terminal block
Number of connections	19
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	0.77 W

Connection data

Service Entrance	yes
Number of connections per level	19
Nominal cross section	2.5 mm²
Rated cross section AWG	14

Load contact

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 ... 4 mm²
Cross section AWG	26 ... 12 (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 ... 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² ... 2.5 mm²
Nominal current	24 A
Maximum load current	32 A (with 4 mm² conductor cross section)
Maximum total current	57 A (with 10 mm² conductor cross section)

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	0.5 mm² ... 10 mm²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² ... 10 mm²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² ... 6 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1.5 mm²
Nominal current	41 A (with 6 mm² conductor cross section)
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal cross section	6 mm²

Load contact Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² ... 4 mm²
Conductor cross section, rigid [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² ... 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² ... 2.5 mm²

Line contact Connection cross sections directly pluggable

Conductor cross section rigid	1 mm² ... 10 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² ... 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² ... 6 mm²

Dimensions

Width	56.5 mm
Height	28.6 mm
Depth	22.7 mm

Material specifications

Color	brown
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

Mechanical tests

Attachment on the carrier

DIN rail/fixing support	NS 35/NS 15
Result	Test passed
Note	When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.
	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

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 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

Specification	DIN EN 50155 (VDE 0115-200):2008-03
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)	-35 °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
	IEC 60998-2-2

Mounting

Mounting type	adhesive

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3273514

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group D				
Input	600 V	5 A	20 - 8	-
Use group B				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
Use group C				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-

IECEE CB Scheme
Approval ID: DE1-63086

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	450 V	41 A	-	- 6

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

LR
Approval ID: LR2002627TA

VDE Zeichengenehmigung
Approval ID: 40047798

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	450 V	41 A	-	-

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-
Use group C				
Output	300 V	20 A	26 - 12	-
Input	300 V	50 A	20 - 8	-

Use group D				
Output	600 V	5 A	26 - 12	-
Input	600 V	5 A	20 - 8	-

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250118

ETIM

ETIM 8.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

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

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com