PTFIX 10/12X4-G WH - Distribution block

3274022

https://www.phoenixcontact.com/de/produkte/3274022

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Distribution block, bridged internally, nom. voltage: 450 V, nominal current: 32 A, number of connections: 13, connection method: Push-in connection, Load contact, cross section: 0.2 mm^2 - 6 mm^2, Push-in connection, Line contact, Rated cross section: 10 mm^2, cross section: 0.5 mm^2 - 10 mm^2, mounting type: adhesive, color: white

Your advantages

- Clear wiring, thanks to eleven different color variants
- Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- 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	3274022
Packing unit	8 pc
Minimum order quantity	8 pc
Sales key	A1 - Reihenklemmen
Product key	BEA123
Catalog page	Page 452 (C-1-2019)
GTIN	4055626668529
Weight per piece (including packing)	37 g
Weight per piece (excluding packing)	22,22 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Notes

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	13
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	1.02 W

Connection data

Service Entrance	yes
Number of connections per level	13
Nominal cross section	4 mm²
Rated cross section AWG	6

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	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section, flexible [AWG]	24 ... 12 (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	32 A
Maximum load current	41 A
Maximum total current	63 A
Nominal voltage	450 V

Line contact

Stripping length	12 mm ... 14 mm
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section rigid	0.5 mm² ... 10 mm²
Cross section AWG	20 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² ... 10 mm²
Conductor cross section, flexible [AWG]	20 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 10 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² ... 10 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² ... 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 2.5 mm²
Nominal current	57 A
Maximum load current	57 A
Nominal cross section	10 mm²

Load contact Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² ... 6 mm²
Conductor cross section, rigid [AWG]	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² ... 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² ... 4 mm²

Line contact Connection cross sections directly pluggable

Conductor cross section rigid	1 mm² ... 16 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² ... 10 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² ... 10 mm²

Dimensions

Width	46.3 mm
Height	28.6 mm
Depth	22.7 mm

Material specifications

Color	white
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

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):2018-05
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):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 (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

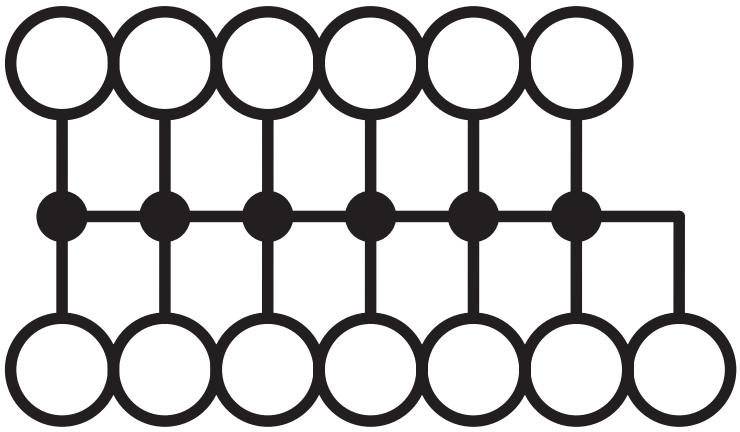
Connection in acc. with standard	IEC 60998-2-2
	IEC 60998-2-2

Mounting

Mounting type	adhesive

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/de/produkte/3274022

CSA
Approval ID: 13631

IECEE CB Scheme
Approval ID: DE1-63088

	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.BL08.B.00644

VDE Zeichengenehmigung
Approval ID: 40047798

cULus Recognized
Approval ID: E60425

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250118

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

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

Accessories

FBS 2-6 - Plug-in bridge

3030336

https://www.phoenixcontact.com/de/produkte/3030336



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

FBS 2-6 GY - Plug-in bridge

3032237

https://www.phoenixcontact.com/de/produkte/3032237



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

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FBS 2-6 BU - Plug-in bridge

3036932

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

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