

https://www.phoenixcontact.com/us/products/1082539



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Monoblock, Basic terminal block, nom. voltage: 450 V, nominal current: 24 A, number of connections: 2, connection method: Push-in connection, cross section: 0.14 mm² - 4 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: turquoise

### Your advantages

- · Clear wiring, thanks to eleven different color variants
- · Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Space savings of up to 50 % on the DIN rail, thanks to transverse mounting
- · Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting

#### Commercial data

Item number	1082539
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	NULL
Product key	BEA111
GTIN	4055626814988
Weight per piece (including packing)	3.874 g
Weight per piece (excluding packing)	3.333 g
Customs tariff number	85369010
Country of origin	PL



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## Technical data

#### Notes

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

### Product properties

Product type	Distributor terminal block
Number of connections	2
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

Number of connections per level	2
Nominal cross section	2.5 mm²
Rated cross section AWG	14
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	27 A
Nominal voltage	450 V

### 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



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#### **Dimensions**

Width	5.2 mm
Height	28.2 mm
Depth	21.2 mm

### Material specifications

Color	turquoise
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

#### Electrical tests

#### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

#### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm²	0.3 kA
Short-time withstand current 4 mm²	0.48 kA
Result	Test passed

# Power-frequency withstand voltage

Tower-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

### Mechanical properties

#### Mechanical data

Open side panel	No
Open side panel	110

### Mechanical tests



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Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Note	When aligning several blocks, the foot elements should be placed in a way that maximum 5 blocks are free-hanging in between. Flange elements should be placed after every 9 blocks.
	Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.
	One DIN rail adapter PTFIX-NS35 is intended for maximum 11 blocks.
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

#### Environmental and real-life conditions

Pulse shape

Acceleration

Aging	
Temperature cycles	192
Result	Test passed
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	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
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):2008-03

Half-sine

30g



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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, no longer than 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
Mounting	
Mounting type	for snapping onto a DIN rail adapter
	Direct mounting with flange
	Free-hanging



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# Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27141120
	ECLASS-13.0	27250118
ETIM		
	ETIM 9.0	EC000897
UN	ISPSC	

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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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