

## Potential distributors - PTRVB 8-FI - 3270160

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Potential distributors, Nom. voltage: 250 V, Nominal current: 17.5 A, Cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 14 - 26, Connection type: Push-in connection, Width: 8.3 mm, Length: 100 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

### Product Features

- Bridgeable potential distributor with option to supply up to 6 mm<sup>2</sup>
- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- Tool-free wiring in a confined space thanks to compact size



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85369010
Country of origin	Poland

### Technical data

#### General

Number of levels	8
Number of connections	29
Nominal cross section	1.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	4 kV
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	32 A (The total current of the terminal block must not exceed 32 A)

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## Technical data

### General

Nominal current $I_N$	17.5 A (with 1.5 mm <sup>2</sup> conductor cross section)
Nominal voltage $U_N$	250 V
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	37 A (In the case of a 6 mm <sup>2</sup> conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors)
Nominal current $I_N$	32 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage $U_N$	250 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	4.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.5 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.14 mm <sup>2</sup> / 0.2 kg
	1.5 mm <sup>2</sup> / 0.4 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	0.2 mm <sup>2</sup> / 0.2 kg
	4 mm <sup>2</sup> / 0.9 kg
	6 mm <sup>2</sup> / 1.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	1.5 mm <sup>2</sup>
Tractive force setpoint	40 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed

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## Technical data

### General

Requirements, voltage drop	$\leq 3.2 \text{ mV}$
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	$1.5 \text{ mm}^2$
Short-time current	$0.18 \text{ kA}$
Conductor cross section short circuit testing	$2.5 \text{ mm}^2$
Short-time current	$0.3 \text{ kA}$
Conductor cross section short circuit testing	$4 \text{ mm}^2$
Short-time current	$0.48 \text{ kA}$
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	$130 \text{ }^\circ\text{C}$
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	$125 \text{ }^\circ\text{C}$
Static insulating material application in cold	$-60 \text{ }^\circ\text{C}$

### Dimensions

Width	8.3 mm
Length	100 mm
Height NS 35/7,5	87.5 mm
Height NS 35/15	95 mm

### Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	$0.14 \text{ mm}^2$
Conductor cross section solid max.	$2.5 \text{ mm}^2$
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	$0.14 \text{ mm}^2$
Conductor cross section flexible max.	$1.5 \text{ mm}^2$
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	$0.14 \text{ mm}^2$
Conductor cross section flexible, with ferrule without plastic sleeve max.	$1.5 \text{ mm}^2$
Conductor cross section flexible, with ferrule with plastic sleeve min.	$0.14 \text{ mm}^2$
Conductor cross section flexible, with ferrule with plastic sleeve max.	$1.5 \text{ mm}^2$

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### Technical data

#### Connection data

Stripping length	8 mm ... 10 mm
Note	Only the "CRIMPFOX 6" crimping pliers may be used for crimping with 6 mm <sup>2</sup> stranded and ferrule.
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section AWG min.	14
Conductor cross section AWG max.	8
Conductor cross section flexible min.	2.5 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	14
Max. AWG conductor cross section, flexible	8
Conductor cross section flexible, with ferrule without plastic sleeve min.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
Stripping length	12 mm

#### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Classifications

#### eCl@ss

eCl@ss 4.0	27141118
eCl@ss 4.1	27141118
eCl@ss 5.0	27141118
eCl@ss 5.1	27141120
eCl@ss 6.0	27141141
eCl@ss 7.0	27141141
eCl@ss 8.0	27141141
eCl@ss 9.0	27141141

#### ETIM

ETIM 3.0	EC000901
ETIM 4.0	EC000901

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### Classifications

#### ETIM

ETIM 5.0	EC000901
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#### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

### Drawings

#### Circuit diagram

