Potential distributors - PTRVB 4-FI /RD - 3270220

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Potential distributors, with option to supply up to 6 mm², Nom. voltage: 250 V, Nominal current: 17.5 A, Cross section: 0.14 mm² - 2.5 mm², AWG: 14 - 26, Connection method: Push-in connection, Number of positions: 2, Number of connections: 13, Width: 8.3 mm, Length: 64 mm, Color: gray, Color of connection elements: red, Assembly: NS 35/7,5, NS 35/15

Why buy this product

- Distributor terminal block in red for 24 V DC power supplies
- Bridgeable potential distributor with option to supply up to 6 mm²
- 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

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
GTIN	4 055626 186368
GTIN	4055626186368
Weight per Piece (excluding packing)	20.000 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of positions	2
Number of levels	4
Number of connections	13
Potentials	1
Nominal cross section	1.5 mm²

Potential distributors - PTRVB 4-FI /RD - 3270220

Technical data

General

Color	gray
Color of connection elements	red
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	4 kV
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	0.56 W (the value is multiplied when connecting multiple levels)
Maximum load current	24 A (per chamber with 2.5 mm² conductor cross section)
Maximum total current	37 A (per potential distributor)
Nominal current I_N	17.5 A (with 1.5 mm² conductor cross section)
Nominal voltage U_N	250 V
Maximum load current	37 A (Service Entrance)
Nominal current I_N	32 A (Supply, for 4 mm² 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 mm² / 0.2 kg
	1.5 mm² / 0.4 kg
	2.5 mm² / 0.7 kg
	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm^2 / 1.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm²
Tractive force setpoint	10 N

Potential distributors - PTRVB 4-FI /RD - 3270220

Technical data

General

Conductor cross section tensile test	1.5 mm²
Tractive force setpoint	40 N
Conductor cross section tensile test	2.5 mm²
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
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	1.5 mm²
Short-time current	0.18 kA
Conductor cross section short circuit testing	2.5 mm²
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm²
Short-time current	0.48 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
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
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):2008-03
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

Potential distributors - PTRVB 4-FI /RD - 3270220

Technical data

General

Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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	8.3 mm
Length	64 mm
Height NS 35/7,5	55.5 mm
Height NS 35/15	63 mm

Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
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
Stripping length	8 mm ... 10 mm

Potential distributors - PTRVB 4-FI /RD - 3270220

Technical data

Connection data

Note	Only the “CRIMPFOX 6” crimping pliers may be used for crimping with 6 mm² stranded and ferrule.
Connection in acc. with standard	IEC 60947-7-1
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.	6 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.	6 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.2 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²
Stripping length	10 mm ... 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

Environmental Product Compliance

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

Drawings

Circuit diagram

Classifications

eCl@ss

eCl@ss 5.1	27141141
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

Potential distributors - PTRVB 4-FI /RD - 3270220

Classifications

ETIM

ETIM 5.0	EC000897
ETIM 6.0	EC000897

UNSPSC

UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

DNV GL / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

DNV GL	http://exchange.dnv.com/tari/	TAE000016Y

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

	B	D
mm²/AWG/kcmil	12-10	12-10
Nominal current IN	25 A	25 A
Nominal voltage UN	300 V	300 V

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

	B	D
mm²/AWG/kcmil	12-10	12-10
Nominal current IN	25 A	25 A
Nominal voltage UN	300 V	300 V

Potential distributors - PTRVB 4-FI /RD - 3270220

Approvals

cULus Recognized	c UL us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

Continuous plug-in bridge, Length: 500 mm, Color: red

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

Continuous plug-in bridge, Length: 500 mm, Color: gray

Continuous plug-in bridge - FBST 500-PLC BN - 2967976

Continuous plug-in bridge, Length: 500 mm, Color: brown

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

Continuous plug-in bridge, Length: 500 mm, Color: blue

DIN rail

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

---

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail 35 mm (NS 35)

DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail 35 mm (NS 35)

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

---

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

---

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5

Documentation

Mounting material - PT-IL - 3208090

Operating decal for the push-in Technology

End block

End clamp - CLIPFIX 35 - 3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

End clamp - CLIPFIX 35-5 - 3022276

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886

End clamp, width: 9.5 mm, color: gray

End clamp - E/UK - 1201442

End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

End clamp - E/UK 1 - 1201413

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

End cover

End cover - D-PTRV 4 WH - 3270151

End cover, Length: 63.6 mm, Width: 3.8 mm, Height: 48.9 mm, Color: white

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

End cover - D-PTRV 4 WH 1-4 - 3270152

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

---

End cover - D-PTRV 4 WH 1-4 LGS - 3270234

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

---

End cover - D-PTRV 4 WH 4-1 - 3270236

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

---

End cover - D-PTRV 4 WH 4-1 LGS - 3270238

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

---

End cover - D-PTRV 4 WH A-D - 3270153

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

---

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

End cover - D-PTRV 4 WH A-D LGS - 3270235

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

End cover - D-PTRV 4 WH D-A - 3270237

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

End cover - D-PTRV 4 WH D-A LGS - 3270239

End cover, Length: 63.6 mm, Width: 2.2 mm, Height: 48.9 mm, Color: white

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, Color: red

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, Color: blue

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, Color: black

Labeled terminal marker

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

Zack marker strip - ZB 8,3,LGS:FORTL.ZAHLEN - 0803480

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm

---

Zack marker strip - ZB 8,3,QR:FORTL.ZAHLEN - 0803479

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm

---

Zack marker strip - ZB 8,3 CUS - 8191573

Zack marker strip, Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.3 mm, Lettering field: 10.5 x 8.3 mm

---

Marker for terminal blocks - TM-PTRV 4,QR:1-4 - 0803464

Marker for terminal blocks, white, labeled, Mounting type: snapped, Lettering field: 2,4x 9,2 mm

---

Marker for terminal blocks - TM-PTRV 4,QR:4-1 - 0803465

Marker for terminal blocks, white, labeled, Mounting type: snapped, Lettering field: 2,4x 9,2 mm

---

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

Marker for terminal blocks - TM-PTRV 4,QR:A-D - 0803466

Marker for terminal blocks, white, labeled, Mounting type: snapped, Lettering field: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 4,QR:D-A - 0803467

Marker for terminal blocks, white, labeled, Mounting type: snapped, Lettering field: 2,4x 9,2 mm

Mounting material

Retaining bracket - CDC-PTRV - 3270167

Retaining bracket, via four PTRV single modules, Pitch: 8.3 mm, Width: 35.6 mm, Height: 71.5 mm, Color: gray

Partition plate

Spacer plate - DP-PTRV 4 - 3270163

Spacer plate, Length: 63.6 mm, Width: 8.3 mm, Height: 54 mm, Color: gray

Screwdriver tools

Potential distributors - PTRVB 4-FI /RD - 3270220

Accessories

Screwdriver - ST-BW 0 - 1200135

Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

Terminal marking

Zack marker strip - ZB 8,3:UNBEDRUCKT - 0803444

Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm

Test plug terminal block

Reducing plug - RPS - 0201647

Reducing plug, Color: gray

Test plugs - MPS-MT - 0201744

Test plugs, with solder connection up to 1 mm² conductor cross section, Color: silver

Phoenix Contact 2017 © - all rights reserved
http://www.phoenixcontact.com