

# PTRV 8-PV /RD - Potential distributors



3270248

<https://www.phoenixcontact.com/us/products/3270248>

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Potential distributors, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray, color of connection elements: red

## Your advantages

- 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
- Potential distributor for distributing potentials up to 17.5 A
- The 2.3 mm test connection enables testing between the conductors with test pins commonly used in the industry

## Commercial data

Item number	3270248
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BE62
Product key	BE6211
Catalog page	Page 51 (C-1-2019)
GTIN	4055626282534
Weight per piece (including packing)	33.84 g
Weight per piece (excluding packing)	33.84 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	Potential distributor
Number of positions	2
Number of connections	32
Number of rows	8
Potentials	1

### Insulation characteristics

Overvoltage category	III
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### Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.56 W

### Connection data

Number of connections per level	4
Nominal cross section	1.5 mm <sup>2</sup>

#### 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level

Stripping length	8 mm ... 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Nominal current	17.5 A
Maximum load current	20 A (in case of a 2.5 mm <sup>2</sup> conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	250 V
Nominal cross section	1.5 mm <sup>2</sup>

#### 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, rigid [AWG]	20 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

### Dimensions

Width	8.3 mm
Height	100 mm

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Depth on NS 35/7,5	87.5 mm
Depth on NS 35/15	95 mm

## Material specifications

Color	gray
Color of connection elements	red
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))	125 °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)	27,5 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	4.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq$ 45 K
Result	Test passed
Short-time withstand current 1.5 mm <sup>2</sup>	0.18 kA
Short-time withstand current 2.5 mm <sup>2</sup>	0.3 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.5 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

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Result	Test passed
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## Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
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
Result	Test passed

## Environmental and real-life conditions

### 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/s <sup>2</sup> ) <sup>2</sup> /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)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
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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 60947-7-1
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15

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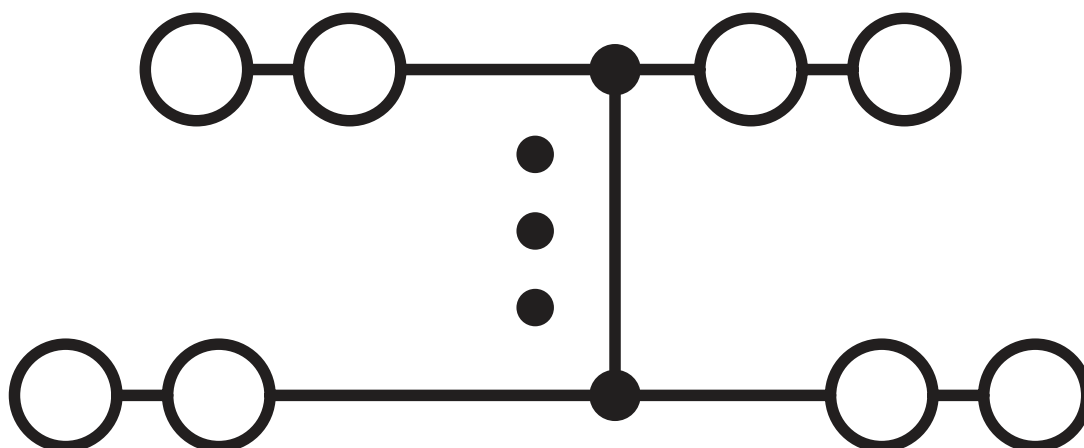


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3270248>

### DNV

Approval ID: TAE000016Y



### CSA

Approval ID: 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B				
	300 V	10 A	26 - 14	-
Use group D				
	300 V	10 A	26 - 14	-



### IECEE CB Scheme

Approval ID: NL-58817

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	250 V	17.5 A	-	-



### EAC

Approval ID: RU C-DE.BL08.B.00682



### cULus Recognized

Approval ID: E60425



### KEMA-KEUR

Approval ID: 71-102890

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Only flexible conductors	250 V	17.5 A	-	0.14 - 1.5
Only rigid conductors	250 V	17.5 A	-	0.14 - 2.5



### cULus Recognized

Approval ID: E60425



### EAC

Approval ID: B.01687

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**cULus Recognized**  
Approval ID: E60425



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Approval ID: E60425



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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250119

### ETIM

ETIM 8.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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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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## Accessories

### DP-PTRV 8 - Spacer plate

3270166

<https://www.phoenixcontact.com/us/products/3270166>



Spacer plate, length: 100 mm, width: 8.3 mm, height: 100 mm, color: gray

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### CDC-PTRV - Retaining bracket

3270167

<https://www.phoenixcontact.com/us/products/3270167>



Retaining bracket, via four PTRV single modules, pitch: 8.3 mm, width: 35.6 mm, height: 71.5 mm, color: gray

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<https://www.phoenixcontact.com/us/products/3270248>

## PT-IL - Mounting material

3208090

<https://www.phoenixcontact.com/us/products/3208090>

Operating decal for the push-in Technology



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## SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/us/products/1204504>

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip



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<https://www.phoenixcontact.com/us/products/3270248>

## ST-BW 0 - Actuation tool

1200135

<https://www.phoenixcontact.com/us/products/1200135>



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S

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

0803444

<https://www.phoenixcontact.com/us/products/0803444>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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<https://www.phoenixcontact.com/us/products/3270248>

### ZB 8,3 CUS - Zack marker strip

8191573

<https://www.phoenixcontact.com/us/products/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 size: 10.5 x 8.3 mm

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### D-PTRV 8 WH - End cover

3270154

<https://www.phoenixcontact.com/us/products/3270154>



End cover, length: 100 mm, width: 3.8 mm, height: 100 mm, color: white

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<https://www.phoenixcontact.com/us/products/3270248>

## D-PTRV 8 WH 1-8 - End cover

3270155

<https://www.phoenixcontact.com/us/products/3270155>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 1-8 LGS - End cover

3270240

<https://www.phoenixcontact.com/us/products/3270240>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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3270248

<https://www.phoenixcontact.com/us/products/3270248>

## D-PTRV 8 WH 8-1 - End cover

3270242

<https://www.phoenixcontact.com/us/products/3270242>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 8-1 LGS - End cover

3270244

<https://www.phoenixcontact.com/us/products/3270244>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white



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3270248

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## D-PTRV 8 WH 1-16 - End cover

3270228

<https://www.phoenixcontact.com/us/products/3270228>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 1-16 LGS - End cover

3270229

<https://www.phoenixcontact.com/us/products/3270229>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 9-16 - End cover

3270211

<https://www.phoenixcontact.com/us/products/3270211>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 9-16 LGS - End cover

3270212

<https://www.phoenixcontact.com/us/products/3270212>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 17-24 - End cover

3270213

<https://www.phoenixcontact.com/us/products/3270213>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 17-24 LGS - End cover

3270214

<https://www.phoenixcontact.com/us/products/3270214>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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3270248

<https://www.phoenixcontact.com/us/products/3270248>

## D-PTRV 8 WH 25-32 - End cover

3270215

<https://www.phoenixcontact.com/us/products/3270215>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 25-32 LGS - End cover

3270216

<https://www.phoenixcontact.com/us/products/3270216>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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3270248

<https://www.phoenixcontact.com/us/products/3270248>

## D-PTRV 8 WH A-H - End cover

3270156

<https://www.phoenixcontact.com/us/products/3270156>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH A-H LGS - End cover

3270241

<https://www.phoenixcontact.com/us/products/3270241>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

# PTRV 8-PV /RD - Potential distributors



3270248

<https://www.phoenixcontact.com/us/products/3270248>

## D-PTRV 8 WH H-A - End cover

3270243

<https://www.phoenixcontact.com/us/products/3270243>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH H-A LGS - End cover

3270245

<https://www.phoenixcontact.com/us/products/3270245>



End cover, length: 100 mm, width: 2.2 mm, height: 100 mm, color: white

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

0801681

<https://www.phoenixcontact.com/us/products/0801681>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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

1204119

<https://www.phoenixcontact.com/us/products/1204119>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

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<https://www.phoenixcontact.com/us/products/3270248>

## NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/us/products/1204122>



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

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

1206421

<https://www.phoenixcontact.com/us/products/1206421>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)



# PTRV 8-PV /RD - Potential distributors

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

1206434

<https://www.phoenixcontact.com/us/products/1206434>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

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

1206560

<https://www.phoenixcontact.com/us/products/1206560>

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



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## CLIPFIX 35 - End clamp

3022218

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

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## CLIPFIX 35-5 - End clamp

3022276

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

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## E/UK - End clamp

1201442

<https://www.phoenixcontact.com/us/products/1201442>

End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35



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## E/UK 1 - End clamp

1201413

<https://www.phoenixcontact.com/us/products/1201413>

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



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