

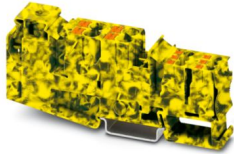
PTU 35/4X6/6X2,5-FE - Potential collective terminal



3214082

<https://www.phoenixcontact.com/us/products/3214082>

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Potential collective terminal, nom. voltage: 1000 V, nominal current: 105 A, number of connections: 11, connection method: Screw connection, 1st level connection left, cross section: 1.5 mm² - 50 mm², Push-in connection, First level connection, interior, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: black/yellow

Your advantages

- The terminal block base is ideal for use in building installation and machine building applications
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors

Commercial data

Item number	3214082
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	BE22
Product key	BE2219
Catalog page	Page 129 (C-1-2019)
GTIN	4055626170572
Weight per piece (including packing)	76.76 g
Weight per piece (excluding packing)	76.76 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Notes

General	In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered.
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Product properties

Product type	Potential distributor
Number of connections	11
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	2

Electrical properties

Maximum power dissipation for nominal condition	4.06 W
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Connection data

Service Entrance	yes
Number of connections per level	11

1st level connection left

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	18 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	1.5 mm ² ... 50 mm ²
Cross section AWG	14 ... 2 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm ² ... 50 mm ²
Conductor cross section, flexible [AWG]	14 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm ² ... 35 mm ²
2 conductors with same cross section, solid	1.5 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG rigid	16 ... 6 (converted acc. to IEC)
2 conductors with same cross section, flexible	1.5 mm ² ... 10 mm ²
2 conductors with the same cross-section AWG flexible	16 ... 8 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm ² ... 10 mm ²
Nominal current	105 A
Maximum load current	105 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	1000 V

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First level connection, interior

Stripping length	12 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Nominal current	41 A
Maximum load current	41 A
Nominal voltage	1000 V
Nominal cross section	6 mm ²

1st level connection right

Stripping length	8 mm ... 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 4 mm ²
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Nominal current	24 A
Maximum load current	24 A
Nominal voltage	1000 V
Nominal cross section	2.5 mm ²

First level connection, interior Connection cross sections directly pluggable

Conductor cross section rigid	1 mm ² ... 10 mm ²
Conductor cross section, rigid [AWG]	18 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm ² ... 6 mm ²

1st level connection right Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm ² ... 4 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² ... 2.5 mm ²

Dimensions

Width	16.3 mm
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Height	110.4 mm
Depth on NS 35/7,5	48.8 mm
Depth on NS 35/15	56.3 mm

Material specifications

Color	black/yellow
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
Short-time withstand current 35 mm ²	3 kA
Short-time withstand current 50 mm ²	4.8 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 35
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Test force setpoint	10 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	1.5 mm ² / 0.4 kg
	35 mm ² / 6.8 kg
	50 mm ² / 9.5 kg
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 kg
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm ² / 0.2 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 0.9 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 ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

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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 ... 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 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1

Mounting

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

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250119

ETIM

ETIM 9.0	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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