

PT 4-PE/L/HESI (5X20) - Fuse modular terminal block



3002602

<https://www.phoenixcontact.com/us/products/3002602>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 V, nominal current: 28 A, connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.2 mm²- 6 mm², connection method: Push-in connection, cross section: 0.2 mm²- 6 mm², mounting type: NS 35/7,5, NS 35/15, color: black

Your advantages

- Easy and tool-free direct plug-in thanks to push-in multi-conductor connection

Commercial data

Item number	3002602
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2236
GTIN	4055626369679
Weight per piece (including packing)	33.875 g
Weight per piece (excluding packing)	35 g
Customs tariff number	85369095
Country of origin	IN

Technical data

Notes

General	The current is determined by the fuse used, the voltage by the selected LED. If the fuse is faulty, the downstream circuit will not be disconnected.
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General

Note	The current is determined by the fuse used, the voltage by the fuse or selected light indicator.
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Product properties

Product type	Fuse terminal block
Number of connections	5
Number of rows	3
Potentials	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Fuse type	Glass / ceramics / ...
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W
Fuse	G / 5 x 20
Maximum power dissipation	max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)
	max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)
	max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)
	max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit)

Connection data

Number of connections per level	2
Nominal cross section	4 mm ²

Level 1+2

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross-section rigid	0.2 mm ² ... 6 mm ²
Cross section AWG	24 ... 10 (converted acc. to IEC)

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Conductor cross-section flexible	0.2 mm² ... 6 mm²
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm² ... 6 mm²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²
Nominal current	28 A
Maximum load current	32 A (with 6 mm² conductor cross-section, rigid)
Nominal voltage	500 V
Nominal cross section	4 mm²

Level 3

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Connection in acc. with standard	IEC 60947-7-3
Conductor cross-section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²

Level 1+2 Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm² ... 6 mm²
Conductor cross-section, rigid [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² ... 4 mm²

Level 3 Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm² ... 6 mm²
Conductor cross-section, rigid [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² ... 4 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 3 G Ex ec IIC Gc
Operating temperature range	-60 °C ... 130 °C
Ex-certified accessories	3002619 D-PT 4-PE/L/HESI
	1205066 SZS 1,0X4,0 VDE
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255

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	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	19 A / 4 mm ²
for bridging with bridge	275 V
- At bridging between non-adjacent terminal blocks	275 V
- At cut-to-length bridging with cover	275 V
Rated insulation voltage	250 V
output	(Permanent)

Ex level General

Rated voltage	275 V
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Ex connection data General

Nominal cross section	4 mm ²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm ² ... 6 mm ²
Connection capacity AWG	24 ... 10
Connection capacity flexible	0.2 mm ² ... 4 mm ²
Connection capacity AWG	24 ... 12
output	(Permanent)

Ex level Level 2

Rated current	29 A (4 mm ²)
Maximum load current	32 A (6 mm ²)
Contact resistance	0.9 mΩ
Temperature increase	40 K (29 A/4 mm ²)
output	(Permanent)

Ex level Level 3

Rated current	6.3 A (4 mm ²)
Maximum load current	6.3 A (6 mm ²)
Contact resistance	5 mΩ

Dimensions

Width	6.2 mm
Height	118.5 mm
Depth	82.6 mm
Depth on NS 35/7,5	83.9 mm
Depth on NS 35/15	91.4 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

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Static insulating material application in cold	-60 °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
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

Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58g
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	5g
Shock duration	30 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, 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

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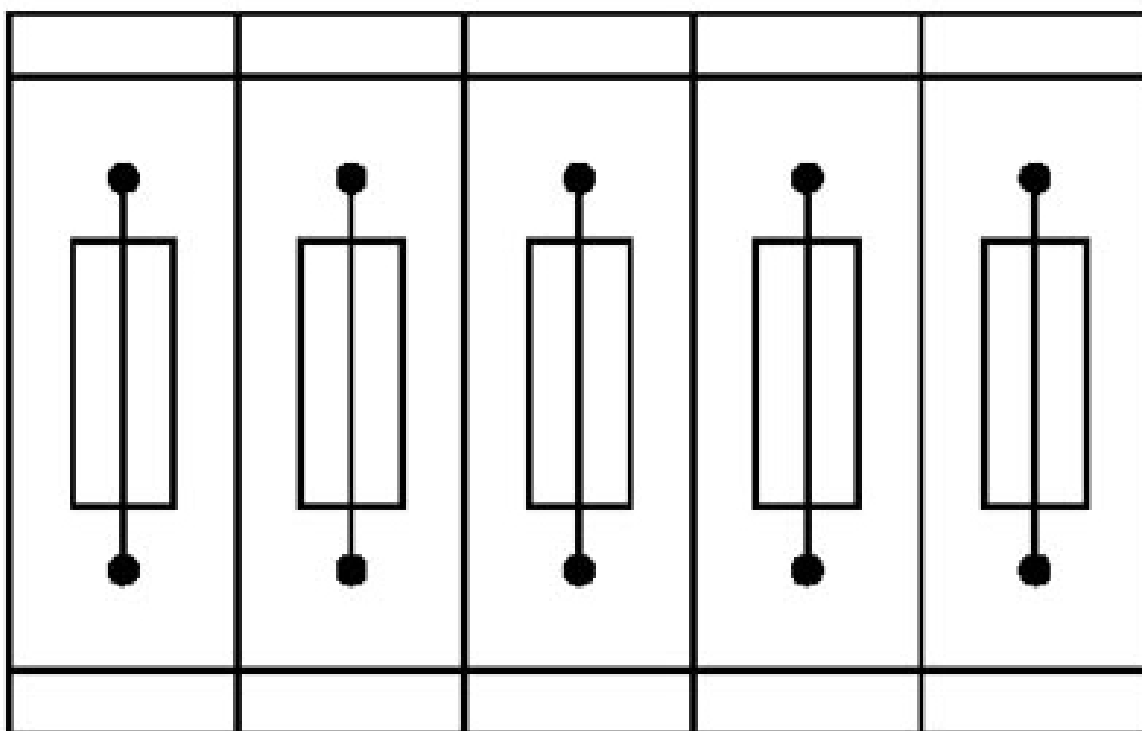
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
	IEC 60947-7-3

Mounting

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

Drawings

Application drawing

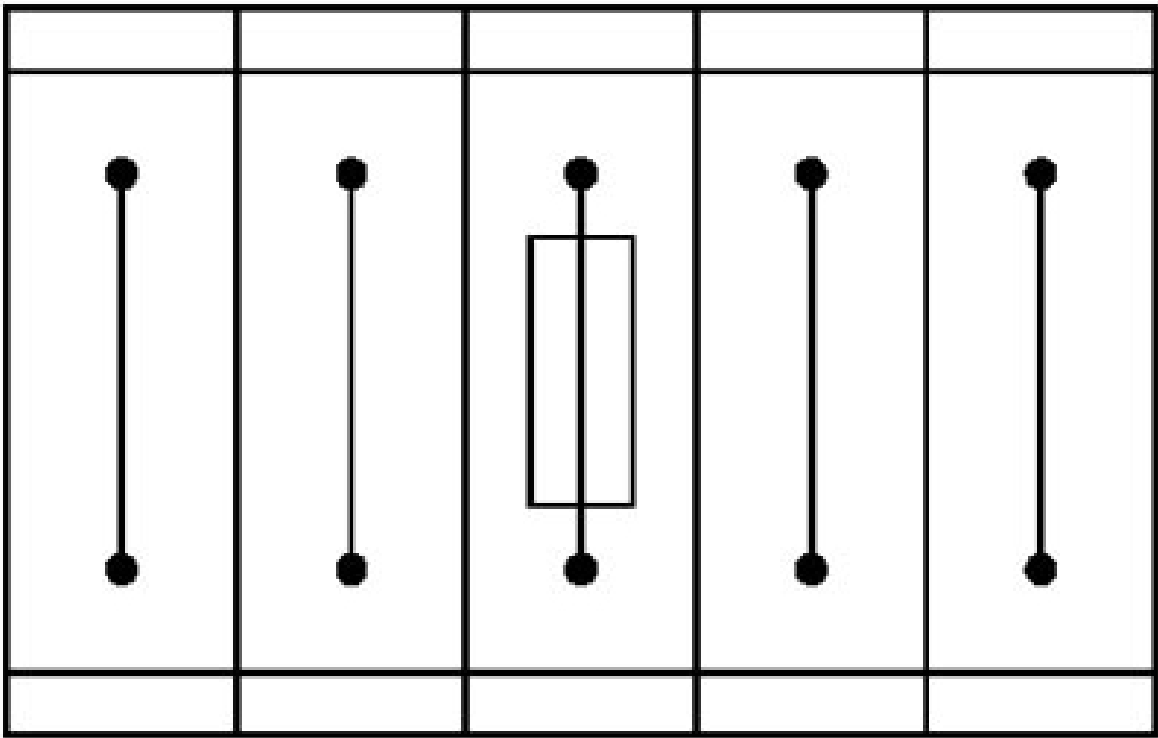


Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

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Application drawing

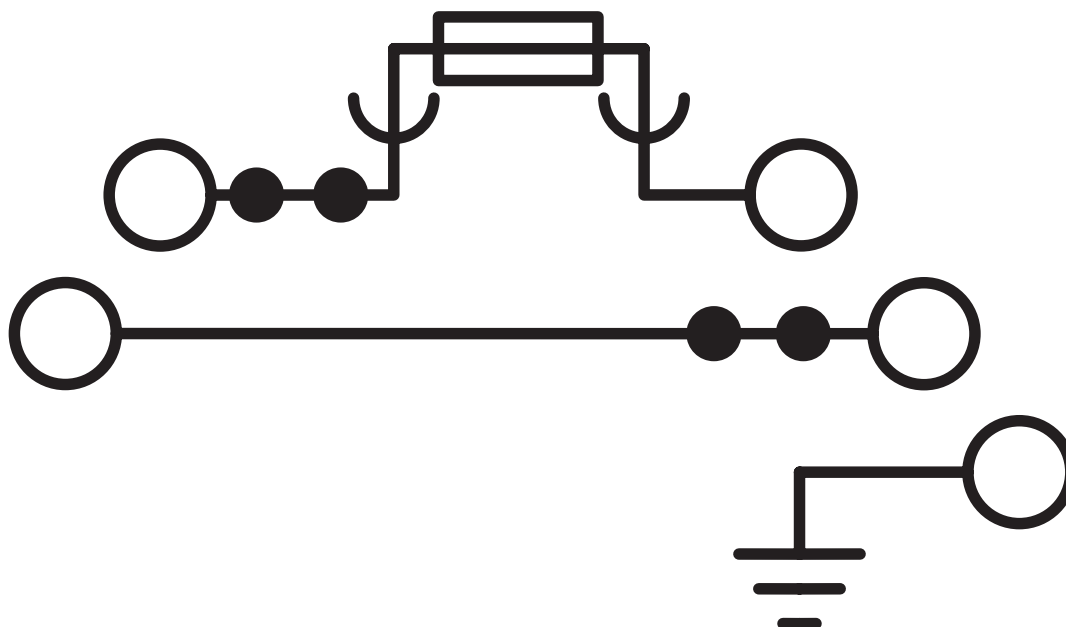


Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3002602>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
upper level	300 V	6.3 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
C				
upper level	300 V	6.3 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
D				
	600 V	5 A	24 - 10	-

 EAC Approval ID: RU C-DE.BL08.B.00644				
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 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
upper level	300 V	6.3 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
PE connection	300 V	-	24 - 10	-
C				
upper level	300 V	6.3 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
PE connection	300 V	-	24 - 10	-
D				
	600 V	5 A	24 - 10	-

 cUL Recognized Approval ID: E192998				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	275 V	20 A	24 - 10	24 - 10
with cartridge fuse-link	275 V	6.3 A	24 - 10	24 - 10

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IECEx

Approval ID: IECExKIWA17.0025U



CCC

Approval ID: 2020322313000626



ATEX

Approval ID: KIWA17ATEX0045U



UKCA-EX

Approval ID: CSAE 21UKEX3605U



EAC Ex

Approval ID: KZ 7500525010101950

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Classifications

ECLASS

ECLASS-13.0	27250113
ECLASS-15.0	27250113

ETIM

ETIM 9.0	EC000899
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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