

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

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 documentation. Our general terms of use for downloads are valid.



Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- An extremely compact design
- Double bridge shaft enables individual potential distribution and supply

## Commercial data

Item number	1277638
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BE1134
GTIN	4063151471897
Weight per piece (including packing)	14.69 g
Weight per piece (excluding packing)	14.69 g
Customs tariff number	85369095
Country of origin	CN

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Technical data

### Notes

#### General

Note	
	The current is determined by the fuse used, the voltage by the fuse or selected light indicator.
	When using fuse terminal blocks in a compound arrangement, the D-UT 2,5/4-TWIN end cover (3047141) must be inserted at each fuse terminal block or a UT 2,5-MTS-EX terminal block (1277636) must be used between each fuse terminal block.
	When using partition plates between the fuse terminal blocks, FBS bridges cannot be used due to the separation.

### Product properties

Product type	Fuse terminal block
Area of application	Process industry
	Machine building
	Plant engineering
Number of connections	2
Number of rows	1

#### 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	0.77 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	2.5 mm <sup>2</sup>
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	9 mm
Internal cylindrical gage	A3

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

Nominal cross section	2.5 mm <sup>2</sup>
-----------------------	---------------------

## Ex data

### Rated data (ATEX/IECEX)

Identification	⊕ II 3 G Ex ec IIC Gc
Operating temperature range	-50 °C ... 130 °C
Ex-certified accessories	3047141 D-UT 2,5/4-TWIN
	1205053 SZS 0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
Bridge data	6.3 A / 2.5 mm <sup>2</sup>
Rated voltage	275 V
Rated insulation voltage	250 V
output	(Permanent)

### Ex level General

Rated current	6.3 A (2.5 mm <sup>2</sup> )
Maximum load current	6.3 A (4 mm <sup>2</sup> )
Contact resistance	0.5 mΩ

### Ex connection data General

Torque range	0.5 Nm ... 0.6 Nm
Nominal cross section	2.5 mm <sup>2</sup>
Rated cross section AWG	14
Connection capacity rigid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	26 ... 12
Connection capacity flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	26 ... 12
2 conductors with same cross section, solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	26 ... 16
2 conductors with same cross section, stranded	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	26 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG	26 ... 14

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Dimensions

Width	6.2 mm
Height	57.8 mm
Depth on NS 35/7,5	75.6 mm
Depth on NS 35/15	83.1 mm

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
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	No
-----------------	----

## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long 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):2018-05
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.)

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

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 %

## Mounting

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

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block

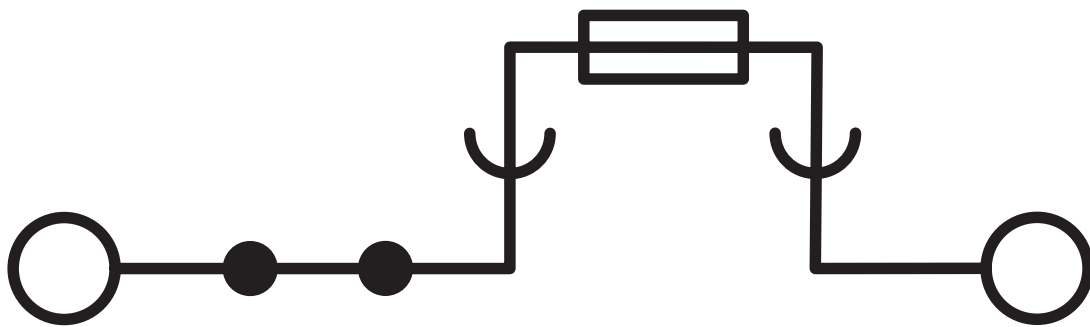


1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Drawings

Circuit diagram



# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/1277638>



**cULus Recognized**  
Approval ID: E60425



**CSA**  
Approval ID: 158887

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
	300 V	10 A	26 - 12	-
Use group C				
	300 V	10 A	26 - 12	-



**cULus Recognized**  
Approval ID: E60425



**IECEX**  
Approval ID: IECEXUL13.0007U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	250 V	6.3 A	-	0.14 - 4



**ATEX**  
Approval ID: DEMKO14ATEX1353U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	250 V	6.3 A	-	0.14 - 4



**UKCA-EX**  
Approval ID: UL22UKEX2452U

# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Classifications

### ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27250113

### ETIM

ETIM 9.0	EC000899
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------



# UT 2,5-HESI-EX (5X20) - Fuse modular terminal block



1277638

<https://www.phoenixcontact.com/sg/products/1277638>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	2cd6c6b6-2d81-44cc-94dd-59fef4c83f55

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT SEA Pte. Ltd.

105 Eunos Avenue 3, #04-00

Singapore 409836

+65 6228 4900

[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)