

UK 35 - Feed-through terminal block



3008012

<https://www.phoenixcontact.com/sg/products/3008012>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, cross section: 0.75 mm² - 50 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts

Commercial data

Item number	3008012
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	0100*
Product key	BE1211
Catalog page	Page 213 (CL-2005)
GTIN	4017918091552
Weight per piece (including packing)	57.6 g
Weight per piece (excluding packing)	55.656 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Feed-through terminal block
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 mm ²
Rated cross section AWG	2

Level 1 above 1 below 1

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.75 mm ² ... 50 mm ²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	18 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm ² ... 35 mm ²
2 conductors with same cross section, solid	0.75 mm ² ... 16 mm ²
2 conductors with same cross section, flexible	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.75 mm ² ... 10 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm ² ... 6 mm ²
Nominal current	125 A
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal voltage	1000 V

Ex data

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Rated data (ATEX/IECEX)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3008096 TP-UK 35
	1205079 SZS 1,0X6,5 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FBI 3-15 / 0201278
Bridge data	118.5 A / 35 mm ²
List of bridges	Insertion bridge / EB 2-15 K/UK 35 / 0205119
	Insertion bridge / EB 10-15 / 0205135
Bridge data	105.5 A / 35 mm ²
List of bridges	Chain bridge / KBI- 15 / 0205203
Bridge data	116 A / 35 mm ²
Ex temperature increase	40 K (130.5 A / 35 mm ²)
Rated voltage	690 V
at bridging with insertion bridge	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	118.5 A
Maximum load current	147 A
Contact resistance	0.08 mΩ

Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection capacity rigid	0.75 mm ² ... 50 mm ²
Connection capacity AWG	18 ... 1/0
Connection capacity flexible	0.75 mm ² ... 35 mm ²
Connection capacity AWG	18 ... 2
2 conductors with same cross section, solid	0.75 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG rigid	18 ... 6
2 conductors with same cross section, stranded	0.75 mm ² ... 10 mm ²
2 conductors with the same cross-section AWG flexible	18 ... 8

Dimensions

Width	15.1 mm
Height	50 mm
Depth on NS 32	67 mm
Depth on NS 35/7,5	62 mm
Depth on NS 35/15	69.5 mm

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Material specifications

Color	gray (RAL 7042)
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

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
	Test passed
Short-time withstand current 35 mm ²	4.2 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 32/NS 35
Test force setpoint	10 N
Result	Test passed

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Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.75 mm ² / 0.4 kg
	35 mm ² / 6.8 kg
	50 mm ² / 9.5 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
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

Shocks

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, 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

Connection in acc. with standard	IEC 60947-7-1
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Mounting

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Mounting type	NS 35/7,5
	NS 35/15
	NS 32

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Drawings

Circuit diagram



UK 35 - Feed-through terminal block



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3008012>

DNV

Approval ID: TAE00001CT



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
With ATP	1000 V	150 A	18 - 1/0	-



IECEE CB Scheme

Approval ID: NL-26111

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	- 35



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
Use group F	1000 V	150 A	18 - 1/0	-



KEMA-KEUR

Approval ID: 71-119836

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	0.75 - 35



NK

Approval ID: 09 ME 141



ATEX

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Approval ID: KEMA98ATEX1786U



cUL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	150 A	18 - 1/0	-



EAC Ex
Approval ID: KZ 7500525010101950



GL
Approval ID: 98876-96 HH

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
EEx e II part certificate	690 V	118.5 A	-	- 35



IECEx
Approval ID: IECEx KEM 06.0029U



UL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	150 A	18 - 1/0	-



CCC
Approval ID: 2020322313000623



DNV GL-EX
Approval ID: TAE00003K6

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
EEx e II part certificate	440 V	32 A	-	- 2.5

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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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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