

EK 135 - Power terminal block



0401023

<https://www.phoenixcontact.com/us/products/0401023>

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Power terminal block, nominal current: 101 A, connection method: Screw connection, Rated cross section: 25 mm², cross section: 0.75 mm² - 35 mm², mounting: Neutral busbar, color: aluminum color

Commercial data

Item number	0401023
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE73
Product key	BE7331
Catalog page	Page 597 (C-3-2017)
GTIN	4017918001773
Weight per piece (including packing)	38.72 g
Weight per piece (excluding packing)	38.12 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Pick-off terminal
Number of connections	1
Number of rows	1

Electrical properties

Maximum load current	125 A (with 35 mm ² conductor cross section)
Maximum power dissipation for nominal condition	4.06 W
Nominal current I _N	125 A
Current carrying capacity of the neutral busbar	140 A

Connection data

Nominal cross section	25 mm ²
Maximum load current	125 A (with 35 mm ² conductor cross section)

Level 1 above 1 below 1

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	14 mm
Internal cylindrical gage	A8
	B7
Conductor cross section rigid	0.75 mm ² ... 35 mm ²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	0.75 mm ² ... 25 mm ²
Conductor cross section, flexible [AWG]	18 ... 4 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm ² ... 25 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm ² ... 25 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, solid	0.75 mm ² ... 10 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
Nominal current	101 A
Nominal cross section	25 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 180 °C
Ex-certified accessories	0404415 AB/SS-EX 0402006 NLS-CU 3/10 SN 2000MM

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	1205079 SZS 1,0X6,5 VDE
Ex temperature increase	40 K (85 A / 25 mm ²)
Torque range for mounting screw	2.6 Nm ... 2.8 Nm
output	(Permanent)

Ex level General

Rated current	85 A
Maximum load current	100 A
Contact resistance	0.24 mΩ

Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
	2.6 Nm ... 2.8 Nm (Mounting screw)
Nominal cross section	25 mm ²
Rated cross section AWG	4
Connection capacity rigid	0.75 mm ² ... 35 mm ²
Connection capacity AWG	18 ... 2
Connection capacity flexible	0.75 mm ² ... 25 mm ²
Connection capacity AWG	18 ... 4
2 conductors with same cross section, solid	0.75 mm ² ... 10 mm ²
2 conductors with the same cross-section AWG rigid	18 ... 8
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	12 mm
Height	40 mm
Depth	37 mm
Length	40 mm

Material specifications

Color	aluminum color
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Electrical tests

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 25 mm ²	3 kA
Short-time withstand current 35 mm ²	4.2 kA
Result	Test passed

Mechanical properties

General

Terminal block mounting	2.6 Nm ... 2.8 Nm (Mounting screw)
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Mechanical tests

Mechanical strength

Result	Test passed
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Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.75 mm ² / 0.4 kg
	25 mm ² / 4.5 kg
	35 mm ² / 6.8 kg
Result	Test passed

Mounting

Mounting type	Neutral busbar
Terminal block mounting	2.6 Nm ... 2.8 Nm (Mounting screw)

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Classifications

ECLASS

ECLASS-11.0	27141146
ECLASS-12.0	27141146
ECLASS-13.0	27250116

ETIM

ETIM 9.0	EC000001
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UNSPSC

UNSPSC 21.0	31162900
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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