

EK 135 - Power terminal block

0401023

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

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.



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

Your advantages

- This can be done easily with the branch terminal block because the terminal block can later be attached and firmly clamped anywhere on a copper rail (up to max. 5 mm thick)

Commercial data

Item number	0401023
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE73
Product key	BE7331
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

EK 135 - Power terminal block



0401023

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

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

Connection method	Screw connection
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, rigid	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 cross section	25 mm ²
Nominal current	101 A

Ex data

Rated data (ATEX/IECEx)

Identification	⊕ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 180 °C
	0404415 AB/SS-EX

EK 135 - Power terminal block



0401023

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

Ex-certified accessories	0402006 NLS-CU 3/10 SN 2000MM 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
-------	----------------

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

EK 135 - Power terminal block



0401023

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

Terminal block mounting	2.6 Nm ... 2.8 Nm (Mounting screw)
-------------------------	------------------------------------

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

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)

EK 135 - Power terminal block



0401023

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0401023>



IECEx

Approval ID: IECExKIWA14.0005U



ATEX

Approval ID: KIWA14ATEX0011U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	-	85 A	-	0.75 - 25
Only rigid conductors	-	100 A	-	0.75 - 35



CCC

Approval ID: 2020322313000874



EAC Ex

Approval ID: KZ 7500525010101950

EK 135 - Power terminal block



0401023

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

Classifications

ECLASS

ECLASS-13.0	27250116
ECLASS-15.0	27250116

ETIM

ETIM 10.0	EC000001
-----------	----------

UNSPSC

UNSPSC 21.0	31162900
-------------	----------

EK 135 - Power terminal block



0401023

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

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	beb4ca27-9032-4e5f-ad80-49c7c3fa18cd

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com