

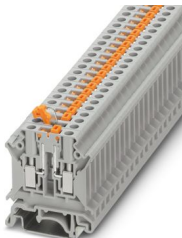
UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

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.



Knife-disconnect terminal block, nom. voltage: 500 V, nominal current: 16 A, connection method: Screw connection, Rated cross section: 1.5 mm², cross section: 0.2 mm² - 6 mm², mounting: NS 35/7,5, NS 35/15, NS 32, color: gray

Commercial data

Item number	3000563
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	BE1231
Catalog page	Page 513 (C-1-2019)
GTIN	4046356709019
Weight per piece (including packing)	9.795 g
Weight per piece (excluding packing)	9.074 g
Customs tariff number	85369010
Country of origin	CN

UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Technical data

Product properties

Product type	Disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	05
------------------	----

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

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

Level 1 above 1 below 1

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	8 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Cross-section with insertion bridge, rigid	4 mm ²
Cross-section with insertion bridge, flexible	4 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Nominal current	16 A
Maximum load current	16 A (with 1.5 mm ² conductor cross section)

UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Nominal voltage	500 V
Nominal cross section	1.5 mm ²

Dimensions

Width	6.2 mm
End cover width	1.8 mm
Height	42.5 mm
Depth on NS 32	53.7 mm
Depth on NS 35/7,5	48.7 mm
Depth on NS 35/15	56.2 mm

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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

Electrical tests

Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
-----------------	-----

Mechanical tests

Mechanical strength

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

Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed

UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm ² / 0.3 kg
	4 mm ² / 0.9 kg
	6 mm ² / 1.4 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):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	1.857 (m/s ²) ² /Hz
Acceleration	0.8g
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

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

UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Mounting

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

UK 5 N-MT - Knife-disconnect terminal block

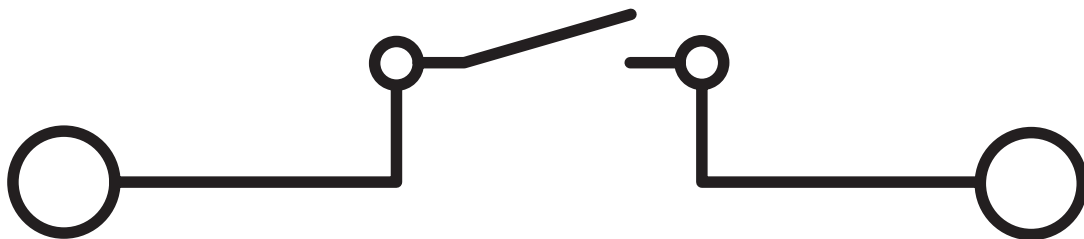
3000563

<https://www.phoenixcontact.com/pc/products/3000563>



Drawings

Circuit diagram



UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/3000563>

**EAC**
Approval ID: RU C-DE.BL08.B.00534

cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	15 A	20 - 10	-
Use group C				
	300 V	15 A	20 - 10	-
Use group F				
	500 V	15 A	20 - 10	-
Use group D				
	600 V	5 A	20 - 10	-

UK 5 N-MT - Knife-disconnect terminal block



3000563

<https://www.phoenixcontact.com/pc/products/3000563>

Classifications

ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250108

ETIM

ETIM 9.0	EC000902
----------	----------

UNSPSC

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

UK 5 N-MT - Knife-disconnect terminal block



3000563
<https://www.phoenixcontact.com/pc/products/3000563>

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	77545d0b-356d-4c4c-8047-65e2cb6bf802

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com