

Feed-through terminal block - UK 3 N - 3001501

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5

Product Features

- Universal foot which can be used on NS 35... and NS 32... DIN rails
- The UK universal screw terminal block series has the typical features which are decisive for practical applications
- Potential distribution via fixed bridges in the terminal center or insertion bridges in the clamping space



Key commercial data

package_quantity	50
GTIN	4017918089955

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

General

Maximum load current	32 A (with 4 mm ² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I _N	24 A
Nominal voltage U _N	800 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed

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Technical data

General

Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	2.5 mm ² / 0.7 kg
Bending test conductor cross section/weight	4 mm ² / 0.9 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.2 mm ²
Tractive force setpoint	10 N
Conductor cross section tensile test	2.5 mm ²
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm ²
Tractive force setpoint	60 N
Tensile test result	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	1 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	2.5 mm ²
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm ²
Short-time current	0.48 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03

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Technical data

General

Shock form	Half-sine
Acceleration	30 g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	5.2 mm
Length	42.5 mm
Height NS 35/7,5	47 mm
Height NS 35/15	54.5 mm
Height NS 32	52 mm

Connection data

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Min. AWG conductor cross section, stranded	24
Max. AWG conductor cross section, stranded	14
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	1 mm ²
2 conductors with same cross section, solid min.	0.2 mm ²
2 conductors with same cross section, solid max.	1.5 mm ²
2 conductors with same cross section, stranded min.	0.2 mm ²
2 conductors with same cross section, stranded max.	1.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²

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Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm ²
Cross section with insertion bridge, solid max.	4 mm ²
Cross section with insertion bridge, stranded max.	2.5 mm ²
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

approvals

IECEX / ATEX / FM approved / UL Recognized / cUL Recognized / GL / UL Recognized / cUL Recognized / cULus Recognized / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / LR / GL / BV / DNV / RS / ABS / PRS / KR / NK / CCA / GOST / LR / cULus Recognized /

Approval details

IECEX

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approvals

Nominal voltage UN	690 V
Nominal current IN	23 A
mm ² /AWG/kcmil	0.2-2.5

ATEX

Nominal voltage UN	690 V
Nominal current IN	29 A
mm ² /AWG/kcmil	0.2-4

FM approved

Nominal voltage UN	300 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

UL Recognized

Nominal voltage UN	300 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

cUL Recognized

Nominal voltage UN	300 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

GL

Nominal voltage UN	690 V
Nominal current IN	23 A
mm ² /AWG/kcmil	2.5

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approvals

Nominal voltage UN	300 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

Nominal voltage UN	300 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

cULus Recognized	
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CSA	
Nominal voltage UN	600 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12


Usegroups	C
Nominal voltage UN	600 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

KEMA-KEUR	
Nominal voltage UN	800 V
Nominal current IN	24 A
mm ² /AWG/kcmil	2.5

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approvals

	
Nominal voltage UN	600 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

	
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LR	
Nominal voltage UN	800 V
Nominal current IN	57 A
mm ² /AWG/kcmil	10

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BV

DNV

RS

ABS	
Nominal voltage UN	600 V
Nominal current IN	20 A
mm ² /AWG/kcmil	28-12

PRS

KR

NK

CCA	
Nominal voltage UN	800 V

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approvals

Nominal current I _N	
mm ² /AWG/kcmil	2.5



Nominal voltage U _N	800 V
Nominal current I _N	24 A
mm ² /AWG/kcmil	2.5



accessories

End cover

D-UK 4/10 - 3003020



D-UK 4/10 BU - 3003101



Warning label printed

WS 3- 5 - 0805357



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accessories

WS 4- 5 - 0805344



WS 5- 5 - 0805331



Mounting material

ZSR - 2303608



Bridge

FB-150 METER - 0201595



FBR 80-5-EX - 3000942



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accessories

FBRI 20-5 N - 3000515



FBRI 16-5 N - 3000476



FBRI 12-5 N - 3000434



FBRI 2-5 N - 3000227



FBRI 10-5 N - 2770642



FBR 10-5-EX - 2303226



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accessories

FBRI 40-5 N - 3006823



EBL 3- 5 - 2303158



EBL 2- 5 - 2303145



EBL 10- 5 - 2303132



USBR 2-7 - 2303239



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accessories

USBRJ 2-7 - 2305538



Cover profile

EA 5-WS - 1024085



EA 5 - 1024014



Short-circuit connector

KSS 5 - 2303543



Test plug terminal block

PS-UK 2,5 B/Z-5 - 3001226



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accessories

PS-UK 2,5 B/E - 3001132



RPS - 0201647



MPS-MT - 0201744



Partition plate

TS-K - 1302215



Partition plate

ATP-UK - 3003224



Terminal marking

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accessories

SBS 5:UNBEDRUCKT - 1007219



ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



UCT-TM 5 - 0828734



Mounting rail

NS 32 PERF 2000MM - 1201002



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accessories

NS 32 UNPERF 2000MM - 1201015



NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



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accessories

NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



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accessories

NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



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accessories

NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



Labeled terminal marker

ZB 5 CUS - 0824962



UC-TM 5 CUS - 0824581



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accessories

UCT-TM 5 CUS - 0829595



Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



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accessories

MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



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accessories

E/NS 35 N - 0800886



E/UK - 1201442



E/UK 1 - 1201413



Test socket

PSBJ 3/13/4 - 0201304



PSB 3/10/4 - 0601292



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accessories

PS-UK 3-5/Z-5 - 3001459

FBRI 19-5 N - 3000502

FBRI 18-5 N - 3000492

FBRI 17-5 N - 3000489

FBRI 15-5 N - 3000463

FBRI 14-5 N - 3000450



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accessories

FBRI 13-5 N - 3000447



FBRI 11-5 N - 3000421

Drawings

Circuit diagram



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