

# Feed-through terminal block - UK 6 N - 3004524

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 24 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 32

## Product Features

- All universal terminal blocks in the UK... series can also be used in the Ex e area according to IEC/EN 60079 as standard
- The corresponding EC-type examination numbers for Ex approval can be found in the technical connection data



## Key commercial data

package_quantity	50
GTIN	4017918090821

## 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	57 A (with 10 mm <sup>2</sup> 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 <sub>N</sub>	41 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	ja
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV

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## Technical data

### General

<b>Result of power-frequency withstand voltage test</b>	Test passed
<b>Checking the mechanical stability of terminal points (5 x conductor connection)</b>	Test passed
<b>Bending test rotation speed</b>	10 rpm
<b>Bending test turns</b>	135
<b>Bending test conductor cross section/weight</b>	0.2 mm <sup>2</sup> / 0.2 kg
<b>Bending test conductor cross section/weight</b>	6 mm <sup>2</sup> / 1.4 kg
<b>Bending test conductor cross section/weight</b>	10 mm <sup>2</sup> / 2 kg
<b>Result of bending test</b>	Test passed
<b>Conductor cross section tensile test</b>	0.2 mm <sup>2</sup>
<b>Tractive force setpoint</b>	10 N
<b>Conductor cross section tensile test</b>	6 mm <sup>2</sup>
<b>Tractive force setpoint</b>	80 N
<b>Conductor cross section tensile test</b>	10 mm <sup>2</sup>
<b>Tractive force setpoint</b>	90 N
<b>Tensile test result</b>	Test passed
<b>Tight fit on carrier</b>	NS 32/NS 35
<b>Setpoint</b>	5 N
<b>Result of tight fit test</b>	Test passed
<b>Requirements, voltage drop</b>	≤ 3.2 mV
<b>Result of voltage drop test</b>	Test passed
<b>Temperature-rise test</b>	Test passed
<b>Conductor cross section short circuit testing</b>	6 mm <sup>2</sup>
<b>Short-time current</b>	0.72 kA
<b>Conductor cross section short circuit testing</b>	10 mm <sup>2</sup>
<b>Short-time current</b>	1.2 kA
<b>Short circuit stability result</b>	Test passed
<b>Proof of thermal characteristics (needle flame) effective duration</b>	30 s
<b>Result of thermal test</b>	Test passed
<b>Test specification, oscillation, broadband noise</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Test spectrum</b>	Service life test category 1, class B, body mounted
<b>Test frequency</b>	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
<b>ASD level</b>	1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
<b>Acceleration</b>	0.8 g
<b>Test duration per axis</b>	5 h
<b>Test directions</b>	X-, Y- and Z-axis
<b>Oscillation, broadband noise test result</b>	Test passed
<b>Test specification, shock test</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Shock form</b>	Half-sine
<b>Acceleration</b>	5 g
<b>Shock duration</b>	30 ms

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## Technical data

### General

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	8.2 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

Connection in acc. with standard	IEC 60947-7-1
Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	8
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	24
Max. AWG conductor cross section, stranded	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	4 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	4 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>

# Feed-through terminal block - UK 6 N - 3004524

## Technical data

### Connection data

<b>2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.</b>	1.5 mm <sup>2</sup>
<b>Cross section with insertion bridge, solid max.</b>	4 mm <sup>2</sup>
<b>Cross section with insertion bridge, stranded max.</b>	4 mm <sup>2</sup>
<b>Stripping length</b>	10 mm
<b>Internal cylindrical gage</b>	A5
<b>Screw thread</b>	M4
<b>Tightening torque, min</b>	1.5 Nm
<b>Tightening torque max</b>	1.8 Nm

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27141120
<b>eCl@ss 4.1</b>	27141120
<b>eCl@ss 5.0</b>	27141120
<b>eCl@ss 5.1</b>	27141120
<b>eCl@ss 6.0</b>	27141120
<b>eCl@ss 7.0</b>	27141120
<b>eCl@ss 8.0</b>	27141120

### ETIM

<b>ETIM 2.0</b>	EC000897
<b>ETIM 3.0</b>	EC000897
<b>ETIM 4.0</b>	EC000897
<b>ETIM 5.0</b>	EC000897

### UNSPSC

<b>UNSPSC 6.01</b>	30211811
<b>UNSPSC 7.0901</b>	39121410
<b>UNSPSC 11</b>	39121410
<b>UNSPSC 12.01</b>	39121410
<b>UNSPSC 13.2</b>	39121410

## approvals

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

### Approval details

<b>IECEX</b>
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# Feed-through terminal block - UK 6 N - 3004524

## approvals

Nominal voltage UN	690 V
Nominal current IN	41 A
mm <sup>2</sup> /AWG/kcmil	0.2-6

**ATEX**

Nominal voltage UN	690 V
Nominal current IN	41 A
mm <sup>2</sup> /AWG/kcmil	0.2-6

**FM approved**

Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

**UL Recognized**

Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

**cUL Recognized**

Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

**GL**

Nominal voltage UN	690 V
Nominal current IN	43.5 A
mm <sup>2</sup> /AWG/kcmil	6

# Feed-through terminal block - UK 6 N - 3004524

approvals

cULus Recognized	
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CSA	
Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

KEMA-KEUR	
Nominal voltage UN	800 V
Nominal current IN	41 A
mm <sup>2</sup> /AWG/kcmil	6

Nominal voltage UN	600 V
Nominal current IN	50 A
mm <sup>2</sup> /AWG/kcmil	26-8

GOST	
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LR	
Nominal voltage UN	800 V

# Feed-through terminal block - UK 6 N - 3004524

## approvals

Nominal current I <sub>N</sub>	41 A
mm <sup>2</sup> /AWG/kcmil	6

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<b>DNV</b>
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<b>RS</b>
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<b>ABS</b>	
Nominal voltage U <sub>N</sub>	600 V
Nominal current I <sub>N</sub>	50 A
mm <sup>2</sup> /AWG/kcmil	28-8

<b>PRS</b>
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<b>KR</b>
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<b>NK</b>
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<b>CCA</b>	
Nominal voltage U <sub>N</sub>	800 V
Nominal current I <sub>N</sub>	
mm <sup>2</sup> /AWG/kcmil	6


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Nominal voltage U <sub>N</sub>	800 V
Nominal current I <sub>N</sub>	57 A
mm <sup>2</sup> /AWG/kcmil	10


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# Feed-through terminal block - UK 6 N - 3004524

accessories

## End cover

D-UK 4/10 - 3003020



## Warning label printed

WS 5- 8 - 1004416



WS 4- 8 - 1004212



WS 3- 8 - 1004128



## Cover profile

EA 5-WS - 1024085





# Feed-through terminal block - UK 6 N - 3004524

accessories

EA 5 - 1024014



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## Short-circuit connector

KSS 8 - 0311540



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## Partition plate

TS-K - 1302215



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## Partition plate

ATP-UK - 3003224



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## Terminal marking

SBS 8:UNBEDRUCKT - 1007235



# Feed-through terminal block - UK 6 N - 3004524

## accessories

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ZB 8:UNBEDRUCKT - 1052002



UC-TM 8 - 0818072



UCT-TM 8 - 0828740



## Insulating sleeve

IS-K 10 - 1303337



PS-IH WH - 0311566



## Feed-through terminal block - UK 6 N - 3004524

### accessories

PS-IH RD - 0311579



PS-IH BU - 0311582



PS-IH YE - 0311595



PS-IH GN - 0311605



PS-IH GY - 0311621



PS-IH BK - 0311634



# Feed-through terminal block - UK 6 N - 3004524

accessories

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PS-IH VT - 0311618



## Bridge

SB 2- 8/13 N - 0200062



ISSBI 10- 8 - 0301534



FBI 2- 8 - 0200020



FBI 3- 8 - 0200059



## Feed-through terminal block - UK 6 N - 3004524

### accessories

FBI 4- 8 - 0200046



FBI 10- 8 - 0203263



FBI 10- 8-EX - 0711700



FB 2- 8 - 0202196



FB 2- 8-EX - 3029224



FB 3- 8 - 0202167



# Feed-through terminal block - UK 6 N - 3004524

## accessories

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FB 4- 8 - 0202183



FB 10- 8 - 0202170



FB 10- 8-EX - 3003185



EB 2- 8 - 0202154



EB 3- 8 - 0202141



## Feed-through terminal block - UK 6 N - 3004524

accessories

EB 4- 8 - 0202142



EB 10- 8 - 0202138



### Mounting rail

NS 32 PERF 2000MM - 1201002



NS 32 UNPERF 2000MM - 1201015



NS 35/ 7,5 PERF 2000MM - 0801733



## Feed-through terminal block - UK 6 N - 3004524

### accessories

NS 35/ 7,5 UNPERF 2000MM - 0801681



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



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



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



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



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





## Feed-through terminal block - UK 6 N - 3004524

accessories

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



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



## Feed-through terminal block - UK 6 N - 3004524

### accessories

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



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



# Feed-through terminal block - UK 6 N - 3004524

accessories

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



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## Labeled terminal marker

ZB 8 CUS - 0825011



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UC-TM 8 CUS - 0824597



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UCT-TM 8 CUS - 0829616



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ZB 8,LGS:FORTL.ZAHLEN - 1052015



## Feed-through terminal block - UK 6 N - 3004524

### accessories

ZB 8,QR:FORTL.ZAHLEN - 1052028



ZB 8,LGS:L1-N,PE - 1052413



### Test plug terminal block

PS-MT - 0311647



### End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



## Feed-through terminal block - UK 6 N - 3004524

accessories

E/NS 35 N - 0800886



E/UK - 1201442



E/UK 1 - 1201413



### Test socket

PSBJ 4/15/6 FARBLOS - 0303419



PSBJ 4/15/6 WH - 0303312



## Feed-through terminal block - UK 6 N - 3004524

### accessories

PSBJ 4/15/6 RD - 0303325



PSBJ 4/15/6 BU - 0303354



PSBJ 4/15/6 YE - 0303367



PSBJ 4/15/6 GN - 0303370



PSBJ 4/15/6 VT - 0303383



PSBJ 4/15/6 GY - 0303396



# Feed-through terminal block - UK 6 N - 3004524

accessories

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PSBJ 4/15/6 BK - 0303406



PSB 4/7/6 - 0303299



## Drawings

Circuit diagram



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