

## Feed-through terminal block - UK 3 N - 3001501

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5

### Why buy this product

- ✓ 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

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 017918 089955
Weight per Piece (excluding packing)	6.98 g
Custom tariff number	85369010
Country of origin	China

### Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	2.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I

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## Technical data

### General

Connection in acc. with standard	IEC 60947-7-1
Maximum load current	32 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.2 mm <sup>2</sup> / 0.2 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	60 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm <sup>2</sup>
Short-time current	0.48 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed

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## Technical data

### General

Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	5.2 mm
End cover width	1.8 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 method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm <sup>2</sup>

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## Technical data

### Connection data

Cross section with insertion bridge, solid max.	4 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	2.5 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.	1.5 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.	1.5 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.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	4 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	2.5 mm <sup>2</sup>
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Stripping length	8 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

### 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

# Feed-through terminal block - UK 3 N - 3001501

## Classifications

### eCl@ss

eCl@ss 8.0	27141120
eCl@ss 9.0	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

### Approvals

#### Approvals


CSA / UL Recognized / KEMA-KEUR / cUL Recognized / LR / GL / DNV / RS / ABS / PRS / KR / NK / CCA / LR / EAC / EAC / GL / cULus Recognized

#### Ex Approvals

IECEx / ATEX / UL Recognized / cUL Recognized / cUL Recognized / EAC Ex / cULus Recognized

#### Approvals submitted

### Approval details

	
mm <sup>2</sup> /AWG/kcmil	28-12
Nominal current I <sub>N</sub>	20 A
Nominal voltage U <sub>N</sub>	600 V

# Feed-through terminal block - UK 3 N - 3001501

## Approvals

UL Recognized	
	C
mm <sup>2</sup> /AWG/kcmil	28-12
Nominal current I <sub>N</sub>	20 A
Nominal voltage U <sub>N</sub>	600 V

KEMA-KEUR	
mm <sup>2</sup> /AWG/kcmil	2.5
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	800 V

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	28-12
Nominal current I <sub>N</sub>	20 A
Nominal voltage U <sub>N</sub>	600 V

LR	
mm <sup>2</sup> /AWG/kcmil	2.5
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	800 V

GL	
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DNV	
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RS	
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ABS	
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PRS	
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# Feed-through terminal block - UK 3 N - 3001501

## Approvals

KR

NK

CCA	
mm <sup>2</sup> /AWG/kcmil	2.5
Nominal voltage UN	800 V

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

EAC

EAC

GL

cULus Recognized us

## Accessories

Accessories

Bridge

Fixed bridge - FB-150 METER - 0201595



Cross connection rail, for fixed bridging of identical inputs and outputs, made of Cu, nickel-plated, 1 m long

Cover profile

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Cover profile - EA 5-WS - 1024085



Single covers, for covering one terminal block, with black symbol (lightning flash) snap fit, color: transparent/yellow

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Cover profile - EA 5 - 1024014



Single covers, color: transparent

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### DIN rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m

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DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m

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DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

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DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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End clamp - E/UK - 1201442



End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

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End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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End cover

End cover - D-UK 4/10 - 3003020



End cover, Length: 42.5 mm, Width: 1.8 mm, Height: 35.9 mm, Color: gray

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End cover - D-UK 4/10 BU - 3003101



End cover, Length: 42.5 mm, Width: 1.8 mm, Height: 47 mm, Color: blue

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Insertion bridge

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Insertion bridge - EBL 3- 5 - 2303158



Insertion bridge, Number of positions: 3, Color: gray

Insertion bridge - EBL 2- 5 - 2303145



Insertion bridge, Number of positions: 2, Color: gray

Insertion bridge - EBL 10- 5 - 2303132



Insertion bridge, Number of positions: 10, Color: gray

### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

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Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

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Labeled terminal marker

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

#### Zack marker strip - ZB 5 CUS - 0824962



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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#### Zack marker strip - ZB 5,LGS:FORTL.ZAHLEN - 1050017



Zack marker strip, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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#### Zack marker strip - ZB 5,QR:FORTL.ZAHLEN - 1050020



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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#### Zack marker strip - ZB 5,LGS:GLEICHE ZAHLEN - 1050033



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Identical numbers 1 or 2, etc. up to 100, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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#### Marker for terminal blocks - ZB 5,LGS:L1-N,PE - 1050415



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Marker for terminal blocks - UC-TM 5 CUS - 0824581



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

Marker for terminal blocks - UCT-TM 5 CUS - 0829595



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, Lettering field: 4.6 x 10.5 mm

### Mounting material

Screw - ZSR - 2303608



Screw

### Partition plate

Separating plate - TS-K - 1302215



Separating plate, Length: 22 mm, Width: 0.5 mm, Height: 22 mm, Color: gray

Partition plate - ATP-UK - 3003224



Partition plate, Length: 56 mm, Width: 1.5 mm, Height: 45.7 mm, Color: gray

### Screw bridge

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Fixed bridge - FBR 80-5-EX - 3000942



Fixed bridge, Number of positions: 80, Color: silver

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Fixed bridge - FBRI 20-5 N - 3000515



Fixed bridge, Number of positions: 20, Color: silver

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Fixed bridge - FBRI 16-5 N - 3000476



Fixed bridge, Number of positions: 16, Color: silver

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Fixed bridge - FBRI 12-5 N - 3000434



Fixed bridge, Number of positions: 12, Color: silver

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Fixed bridge - FBRI 2-5 N - 3000227



Fixed bridge, Number of positions: 2, Color: silver

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Fixed bridge - FBRI 10-5 N - 2770642



Fixed bridge, Number of positions: 10, Color: silver

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Fixed bridge - FBR 10-5-EX - 2303226



Fixed bridge, Number of positions: 10, Color: silver

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Fixed bridge - FBRI 40-5 N - 3006823



Fixed bridge, Number of positions: 40, Color: silver

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### Short-circuit connector

Short-circuit connector - KSS 5 - 2303543



Short-circuit connector, Number of positions: 2, Color: black

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### Switching jumper

Switching jumper - USBR 2-7 - 2303239



Switching jumper, Number of positions: 2, Color: silver

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## Feed-through terminal block - UK 3 N - 3001501

### Accessories

Switching jumper - USBRJ 2-7 - 2305538



Switching jumper, Number of positions: 2, Color: silver

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### Terminal marking

Marker card - SBS 5:UNBEDRUCKT - 1007219



Marker card, Card, white, unlabeled, can be labeled with: Plotter, Perforated, Mounting type: Snap into tall marker groove, Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 6 x 5.1 mm

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

Marker for terminal blocks - UC-TM 5 - 0818108



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

Marker for terminal blocks - UCT-TM 5 - 0828734



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 10.5 mm

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### Test plug terminal block

## Feed-through terminal block - UK 3 N - 3001501

### Accessories

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



Test plugs, Color: red

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Test plugs - PS-UK 2,5 B/E - 3001132



Test plugs, Color: red

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Reducing plug - RPS - 0201647



Reducing plug, Color: gray

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Test plugs - MPS-MT - 0201744



Test plugs, Color: silver

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Test socket

Female test connector - PSBJ 3/13/4 - 0201304



Female test connector, Color: silver

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# Feed-through terminal block - UK 3 N - 3001501

## Accessories

Female test connector - PSB 3/10/4 - 0601292



Female test connector, Color: silver

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## Warning label printed

Warning label - WS 3- 5 - 0805357



Warning plate, with 2 plastic screws, across 3 terminal blocks, pitch 5 mm

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Warning label - WS 4- 5 - 0805344



Warning plate, with 2 plastic screws, across 4 terminal blocks, pitch 5 mm

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Warning label - WS 5- 5 - 0805331



Warning plate, with 2 plastic screws, across 5 terminal blocks, pitch 5 mm

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## Drawings

Circuit diagram

