

Feed-through terminal block - UT 35 - 3044225

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Feed-through terminal block, Connection method: Screw connection, Cross section: 1.5 mm² - 50 mm², AWG: 16 - 1/0, Width: 16 mm, Height: 65.1 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- ✔ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- ✔ Tested for railway applications
- ✔ Easy and time-saving potential supply and distribution of large currents and cross sections up to 35 mm² with reducing bridges
- ✔ The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block with Push-in technology 2,5 Push-in terminal blocks, to form power blocks



Key commercial data

package_quantity	50
GTIN	4017918977559

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering
Area of application	Process industry

General

Maximum load current	150 A (with 50 mm ² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I

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Technical data

General

Connection in acc. with standard	IEC 60947-7-1
Nominal current I _N	125 A
Nominal voltage U _N	1000 V
Open side panel	nein
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 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	1.5 mm ² / 0.4 kg
Bending test conductor cross section/weight	35 mm ² / 6.8 kg
Bending test conductor cross section/weight	50 mm ² / 9.5 kg
Result of bending test	Test passed
Conductor cross section tensile test	1.5 mm ²
Tractive force setpoint	40 N
Conductor cross section tensile test	35 mm ²
Tractive force setpoint	190 N
Conductor cross section tensile test	50 mm ²
Tractive force setpoint	236 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	10 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	35 mm ²
Short-time current	4.2 kA
Conductor cross section short circuit testing	50 mm ²
Short-time current	6 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 1, class B, body mounted

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General

Test frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
ASD level	1.857 (m/s ²) ² /Hz
Acceleration	0.8 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
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 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	16 mm
Length	60.2 mm
Height	65.1 mm
Height NS 35/7,5	65.7 mm
Height NS 35/15	73.2 mm

Connection data

Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG/kcmil min.	16
Conductor cross section AWG/kcmil max	1/0
Conductor cross section stranded min.	1.5 mm ²
Conductor cross section stranded max.	50 mm ²
Min. AWG conductor cross section, stranded	16
Max. AWG conductor cross section, stranded	1
Conductor cross section stranded, with ferrule without plastic sleeve min.	1.5 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	35 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	1.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	35 mm ²
2 conductors with same cross section, solid min.	1.5 mm ²

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Connection data

2 conductors with same cross section, solid max.	16 mm ²
2 conductors with same cross section, stranded min.	1.5 mm ²
2 conductors with same cross section, stranded max.	10 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	1.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	16 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	10 mm ²
Connection method	Screw connection
Stripping length	18 mm
Internal cylindrical gage	B9
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 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

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approvals

IECEX / ATEX / CSA / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / GOST / GL / RS / IECCEB Scheme / GOST / cULus Recognized /

Approval details

IECEX	
Nominal voltage UN	690 V
Nominal current IN	126 A
mm ² /AWG/kcmil	1.5-35

ATEX	
Nominal voltage UN	690 V
Nominal current IN	129 A
mm ² /AWG/kcmil	1.5-50

CSA		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	150 A	150 A
mm ² /AWG/kcmil	14	14

UL Recognized		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	150 A	150 A
mm ² /AWG/kcmil	14	14

VDE Zeichengenehmigung	
Nominal voltage UN	1000 V
Nominal current IN	125 A
mm ² /AWG/kcmil	1.5-35

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approvals

cUL Recognized

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	150 A	150 A
mm ² /AWG/kcmil	14	14

GOST

GL

RS

IECEE CB Scheme

Nominal voltage UN	1000 V
Nominal current IN	125 A
mm ² /AWG/kcmil	1.5-35

cULus Recognized

accessories

Pick-off terminal block

AGK 4-UT 35 - 3047138



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accessories

Marker pen

X-PEN 0,35 - 0811228



Partition plate

TPNS-UK - 0706647



Warning label printed

WS UT 35 - 3047387



End block

E/NS 35 N - 0800886



E/UK - 1201442



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accessories

E/UK 1 - 1201413



CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



Bridge

FBS 2-16 - 3005963



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accessories

RB UT 35-(2,5/4) - 3047277



RB UT 35-ST(2,5/4) - 3047280



Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



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



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accessories

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



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



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



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accessories

NS 35/15 PERF 2000MM - 1201730



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



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accessories

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



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



Terminal marking

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accessories

ZB 15:UNBEDRUCKT - 0811972



Labeled terminal marker

ZB 15 CUS - 0824945



Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



Drawings

Circuit diagram



