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Feed-through terminal block, Connection type: Push-in connection, Screw connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG :20- 10, Width: 8.2 mm, Color: gray, Mounting: NS 35/7,5, NS 35/15

### **Product Description**

with test socket screws

### Why buy this product

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

## **Key Commercial Data**

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 055626 046624

## Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	6 mm²
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	1
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	52 A (with 10 mm² conductor cross section)
Nominal current I <sub>N</sub>	41 A



## Technical data

## General

Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Open side panel  Shock protection test specification  Back of the hand protection  Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Test passe  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns	7-1 6 mm² conductor cross section)  274 (VDE 0660-514):2002-11  d  d		
Connection in acc. with standard  Maximum load current  52 A (with Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Open side panel  Shock protection test specification  Back of the hand protection  Back of the hand protection  Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  Bending test conductor cross section/weight  Test passe  Conductor cross section tensile test  Test passe  Conductor cross section tensile test  Test passe  10 rpm  125  135  135  135  136  137  138  139  139  130  130  130  131  131  132  133  134  135  135  135  135  135  136  137  137  138  139  130  130  130  131  131  132  133  134  135  135  135  135  135  135	7-1 6 mm² conductor cross section)  274 (VDE 0660-514):2002-11  d  d		
Maximum load current   52 A (with Nominal current I <sub>N</sub>	6 mm² conductor cross section)  274 (VDE 0660-514):2002-11  d  d		
Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Open side panel  Shock protection test specification  Back of the hand protection  Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test conductor cross section/weight  10 mm² / 1.4  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  10 N	274 (VDE 0660-514):2002-11 d d		
Nominal voltage U <sub>N</sub> Open side panel  Yes  Shock protection test specification  Back of the hand protection  Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  Bending test conductor cross section/weight  Test passe  10 rpm  135  Bending test conductor cross section/weight  Test passe  10 rpm  10 mm² / 1.4  10 mm² / 2.  Tensile test result  Test passe  Conductor cross section tensile test  Test passe	d d		
Open side panel  Shock protection test specification  Back of the hand protection  Back of the hand protection  Guaranteed  Finger protection  Result of surge voltage test  Test passe  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  7est passe  10 rpm  17est passe  18ending test turns  18ending test turns  18ending test conductor cross section/weight  18ending test conductor cross section/weight  18ending test result	d d		
Shock protection test specification  Back of the hand protection  Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  Test passe  10 rpm  135  Bending test result  Conductor cross section tensile test  Conductor cross section tensile test  Tractive force setpoint  DIN EN 50  guaranteed guaranteed Test passe  Test passe  Test passe  Test passe  1.89 kV  Test passe  Test passe  10 rpm  135  Test passe  1.95  Test passe	d d		
Back of the hand protection  Finger protection  Result of surge voltage test  Test passe  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  10 Test passe	d d		
Finger protection  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  10 Total passe  11 Test passe	d d		
Result of surge voltage test  Surge voltage test setpoint  7.3 kV  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  1.89 kV  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0.5 mm² / 0.5 mm² / 0.5 mm²  Test passe  Conductor cross section tensile test  Conductor cross section tensile test  Test passe  10 rpm  10 mm² / 2  Tensile test result  Test passe  Conductor cross section tensile test  10 N	d d		
Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  7.3 kV  7.3 kV  7.3 kV  7.3 kV  7.3 kV  7.3 kV  7.5 passe	d d		
Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Test passe  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0.5 mm²	d		
Power frequency withstand voltage setpoint  1.89 kV  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0	d		
Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  10 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  7 test passe  0.5 mm²  Tractive force setpoint  10 N			
conductor connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  6 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  0.5 mm²  Tractive force setpoint  10 N			
Bending test rotation speed  10 rpm  Bending test turns  135  Bending test conductor cross section/weight  0.5 mm² / 0.4  6 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  0.5 mm²  Tractive force setpoint  10 N	d		
Bending test turns  Bending test conductor cross section/weight  0.5 mm² / 0  6 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  135  6 mm² / 1.4  10 mm² / 2  Tensile test result  Test passe  10 N			
Bending test conductor cross section/weight  0.5 mm² / 0.6 mm² / 1.4  10 mm² / 2  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  0.5 mm²  10 N			
Tensile test result  Conductor cross section tensile test  Tractive force setpoint  Comm² / 1.4  Test passe  0.5 mm²  10 N	135		
Tensile test result  Test passe Conductor cross section tensile test  Tractive force setpoint  10 mm² / 2  Test passe 0.5 mm²  10 N	0.5 mm² / 0.3 kg		
Tensile test result  Conductor cross section tensile test  Tractive force setpoint  Test passe  0.5 mm²  10 N	kg		
Conductor cross section tensile test 0.5 mm²  Tractive force setpoint 10 N	kg		
Tractive force setpoint 10 N	d		
Conductor cross section tensile test			
5 on a dottor to to 3 oction to raine test			
Tractive force setpoint 60 N			
Conductor cross section tensile test 10 mm <sup>2</sup>			
Tractive force setpoint 80 N			
Result of tight fit on support Test passe	d		
Tight fit on carrier NS 35			
Setpoint 1 N			
Result of voltage-drop test Test passe	d		
Requirements, voltage drop $\leq$ 6,4 mV			
Result of temperature-rise test Test passe	d		
Short circuit stability result Test passe	d		
Conductor cross section short circuit testing 6 mm <sup>2</sup>			
Short-time current 0.72 kA			
Conductor cross section short circuit testing 10 mm²			
Short-time current 1.2 kA			
Result of aging test Test passe			



## Technical data

## General

Ageing test for screwless modular terminal block temperature cycles	192		
Result of thermal test	Test passed		
Proof of thermal characteristics (needle flame) effective duration	30 s		
Oscillation, broadband noise test result	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	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$		
ASD level	6.12 (m/s²)²/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))	125 °C		
Static insulating material application in cold	-60 °C		

## Dimensions

Width	8.2 mm
Length	73.9 mm
Height NS 35/7,5	48 mm
Height NS 35/15	55.5 mm
End cover width	2.2 mm

### Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	12 mm
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10



# Technical data

## Connection data

Conductor cross section flexible, with ferrule without plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with TWIN ferrule min.  Conductor cross section flexible, with TWIN ferrule max.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 r	0.5 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with TWIN ferrule min.  Conductor cross section flexible, with TWIN ferrule max.  1.5  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.	0.5 mm <sup>2</sup> 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.0 mm <sup>2</sup> 1 mm <sup>2</sup>		
Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with TWIN ferrule min.  Conductor cross section flexible, with TWIN ferrule max.  1.5  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup> 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1 mm <sup>2</sup> 10 mm <sup>2</sup> 1 mm <sup>2</sup> 6 mm <sup>2</sup>		
Conductor cross section flexible, with TWIN ferrule min.  Conductor cross section flexible, with TWIN ferrule max.  1.5  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 reconductor cross section flexible, with ferrule with plastic sleeve max.	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1 mm <sup>2</sup> 10 mm <sup>2</sup> 1 mm <sup>2</sup> 10 mm <sup>2</sup>		
Conductor cross section flexible, with TWIN ferrule max.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  1.5  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 reconductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 1 mm <sup>2</sup> 10 mm <sup>2</sup> 1 mm <sup>2</sup> 5 mm <sup>2</sup>		
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  1.5 Conductor cross section solid min.  1 conductor cross section solid max.  1 conductor cross section flexible, with ferrule with plastic sleeve min.  1 conductor cross section flexible, with ferrule with plastic sleeve max.  2 conductor cross section flexible, with ferrule with plastic sleeve max.	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> 10 mm <sup>2</sup> 1 mm <sup>2</sup> 1 mm <sup>2</sup> 1 mm <sup>2</sup>		
plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  1.5  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 r	1.5 mm <sup>2</sup> 10 mm <sup>2</sup> 1 mm <sup>2</sup> 5 mm <sup>2</sup>		
plastic sleeve, max.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 r	I mm <sup>2</sup> I mm <sup>2</sup> I mm <sup>2</sup> S mm <sup>2</sup>		
Conductor cross section solid max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 r	10 mm <sup>2</sup> 1 mm <sup>2</sup> 6 mm <sup>2</sup>		
Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  6 r	I mm² S mm²		
Conductor cross section flexible, with ferrule with plastic sleeve max. 6 r	6 mm²		
Conductor cross section flexible, with ferrule without plastic sleeve min 1 r			
The state of the s	l mm²		
Conductor cross section flexible, with ferrule without plastic sleeve max. 6 r	6 mm²		
Conductor cross section flexible, with TWIN ferrule min. 0.5	0.5 mm²		
Conductor cross section flexible, with TWIN ferrule max. 1.5	1.5 mm²		
Nominal current I <sub>N</sub> 41	41 A		
Maximum load current 52	52 A (with 10 mm² conductor cross section)		
Nominal voltage U <sub>N</sub> 80	800 V		
Internal cylindrical gage A5	A5		
Connection method Sc	Screw connection		
Connection in acc. with standard IEC	IEC 60947-7-1		
Screw thread M4	M4		
Tightening torque, min 1.5	1.5 Nm		
Tightening torque max 1.8	1.8 Nm		
Stripping length 10	10 mm		
Conductor cross section solid min. 0.5	0.5 mm²		
Conductor cross section solid max. 10	10 mm²		
Conductor cross section AWG min. 20	20		
Conductor cross section AWG max. 6	3		
Conductor cross section flexible min. 0.5	0.5 mm²		
Conductor cross section flexible max. 6 r	6 mm²		
Min. AWG conductor cross section, flexible 10	10		
Max. AWG conductor cross section, flexible 8	3		
Conductor cross section flexible, with ferrule without plastic sleeve min. 0.5	).5 mm²		
Conductor cross section flexible, with ferrule without plastic sleeve max. 6 r	3 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve min. 0.5	0.5 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve max. 6 r	3 mm <sup>2</sup>		
2 conductors with same cross section, solid min. 0.5	0.5 mm²		



## Technical data

## Connection data

2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.5 mm²
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 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm²
Nominal current I <sub>N</sub>	41 A
Maximum load current	52 A (with 6 mm² conductor cross section)
Nominal voltage U <sub>N</sub>	800 V

### Standards and Regulations

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

## Classifications

## eCl@ss

eCl@ss 5.1	27141118
eCl@ss 6.0	27141141
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

### **ETIM**

ETIM 4.0	EC000902
ETIM 5.0	EC000897

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details



## Approvals

EAC			

**Drawings** 

Circuit diagram

**О** 

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