

## Feed-through terminal block - STS 6-TWIN - 3038150

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Feed-through terminal block, Connection method: Spring-cage 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

### Why buy this product

- Same shape and pitch as the feed-through terminal blocks
- Cross connection to adjacent feed-through terminal blocks with the consistent FBS ... plug-in bridge system



### Key Commercial Data

Packing unit	50 pc
GTIN	 4 017918 928971
Sales Key	A1 - Terminal Strips

### Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	6 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
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	57 A (with 10 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	41 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	Yes

# Feed-through terminal block - STS 6-TWIN - 3038150

## Technical data

### General

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	2.2 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> / 0.3 kg
	6 mm <sup>2</sup> / 1.4 kg
	10 mm <sup>2</sup> / 2 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	6 mm <sup>2</sup>
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm <sup>2</sup>
Tractive force setpoint	90 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	5 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	6 mm <sup>2</sup>
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm <sup>2</sup>
Short-time current	1.2 kA
Result of aging test	Test passed
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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz

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## Technical data

### General

ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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
End cover width	2.2 mm
Length	70 mm
Height NS 35/7,5	50 mm
Height NS 35/15	57.5 mm

### Connection data

Connection method	Spring-cage 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.	10 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	10
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.	6 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.	6 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.	1.5 mm <sup>2</sup>
Stripping length	12 mm

# Feed-through terminal block - STS 6-TWIN - 3038150

## Technical data

### Connection data

Internal cylindrical gage	A5
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### 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	27141121
eCl@ss 4.1	27141121
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
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

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#### Approvals

CSA / UL Recognized / cUL Recognized / LR / GL / BV / RS / ABS / NK / VDE Zeichengenehmigung / IECCEB Scheme / EAC / EAC / cULus Recognized

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#### Ex Approvals

# Feed-through terminal block - STS 6-TWIN - 3038150

## Approvals

Approvals submitted

### Approval details

CSA		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

cUL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	24-8	24-8
Nominal current I <sub>N</sub>	50 A	50 A
Nominal voltage U <sub>N</sub>	600 V	600 V

LR

GL

BV

RS

ABS

NK

# Feed-through terminal block - STS 6-TWIN - 3038150

## Approvals

VDE Zeichengenehmigung	
mm <sup>2</sup> /AWG/kcmil	0.2-6.0
Nominal current I <sub>N</sub>	41 A

IECEE CB Scheme	
mm <sup>2</sup> /AWG/kcmil	0.2-6.0
Nominal current I <sub>N</sub>	41 A
Nominal voltage U <sub>N</sub>	800 V

EAC
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EAC
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cULus Recognized
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## Accessories

### Accessories

#### DIN rail

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

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

## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

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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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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## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

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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### Documentation

Mounting material - ST-IL - 3039900



Operating decal for the ST terminal block

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### End cover

End cover - D-ST5 6-TWIN - 3038202



End cover, Length: 70 mm, Width: 2.2 mm, Height: 50 mm, Color: gray

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### Jumper

Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, Length: 29.6 mm, Width: 14.7 mm, Number of positions: 2, Color: red

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## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Plug-in bridge - FBS 3-8 - 3030297



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-8 - 3030307



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-8 - 3030310



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-8 - 3030323



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 6-8 - 3032470



Plug-in bridge, Number of positions: 6, Color: red

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## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Plug-in bridge - FBSR 2-8 - 3033808



Plug-in bridge, Number of positions: 2, Color: red

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Plug-in bridge - FBSR 3-8 - 3001597



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBSR 4-8 - 3000585



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBSR 5-8 - 3033809



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBSR 10-8 - 3001599



Plug-in bridge, Number of positions: 10, Color: red

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## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Plug-in bridge - FBS 2-8 CT - 3033830



Plug-in bridge, Length: 29.6 mm, Width: 14.7 mm, Number of positions: 2, Color: orange

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Plug-in bridge - FBS 3-8 CT - 3033831



Plug-in bridge, Number of positions: 3, Color: orange

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Plug-in bridge - FBS 4-8 CT - 3033832



Plug-in bridge, Number of positions: 4, Color: orange

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Plug-in bridge - FBS 10-8 CT - 3033833



Plug-in bridge, Number of positions: 10, Color: orange

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### Partition plate

Partition plate - ATP-ST 6 - 3024481



Partition plate, Length: 73.5 mm, Width: 2 mm, Height: 47.2 mm, Color: gray

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### Reducing bridge

## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Reducing bridge - RB ST 6-(2,5/4) - 3030860



Reducing bridge, Number of positions: 2, Color: red

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### Screwdriver tools

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Short-circuit connector

Short-circuit connector - FBSRH 2-8 - 3033802



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

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Short-circuit connector - FBSRH 3-8 - 3033803



Short-circuit connector, Number of positions: 3, Color: red

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Short-circuit connector - FBSRH 4-8 - 3033804



Short-circuit connector, Number of positions: 4, Color: red

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### Test socket

## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Test adapter - PAI-4-FIX BU - 3032729



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX OG - 3034455



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX YE - 3032745



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX RD - 3032732



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX GN - 3032758



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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## Feed-through terminal block - STS 6-TWIN - 3038150

### Accessories

Test adapter - PAI-4-FIX BK - 3032774



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX GY - 3032790



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX VT - 3032761



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAI-4-FIX BN - 3032787



4 mm test adapter, for terminal blocks with 8.2 mm pitch

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Test adapter - PAIS-4-FIX GY - 3032791



Test adapter, Color: gray

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# Feed-through terminal block - STS 6-TWIN - 3038150

## Accessories

Test adapter - PAIS-4-FIX BK - 3032792



Test adapter, Color: black

Test adapter - PAIS-4-FIX RD - 3032793



Test adapter, Color: red

Test adapter - PAI-4-FIX WH - 3032797



4 mm test adapter, for terminal blocks with 8.2 mm pitch

## Drawings

Circuit diagram

