

## Feed-through terminal block - PT 6-TWIN - 3211929

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Feed-through terminal block, Connection method: Push-in connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 8.2 mm, Height: 42.2 mm, Color: gray, Mounting type: NS 35/7.5, NS 35/15



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 0                                                                                                       |
| Minimum order quantity | 1                                                                                                       |
| GTIN                   | <br>4 046356 495950 |
| Custom tariff number   | 85369010                                                                                                |
| Country of origin      | POLAND                                                                                                  |

### Technical data

#### General

|                                         |      |
|-----------------------------------------|------|
| Number of levels                        | 1    |
| Number of connections                   | 3    |
| Color                                   | gray |
| Insulating material                     | PA   |
| Inflammability class according to UL 94 | V0   |

#### Dimensions

|                  |         |
|------------------|---------|
| Width            | 8.2 mm  |
| Length           | 74.2 mm |
| Height           | 42.2 mm |
| Height NS 35/7,5 | 43.5 mm |
| Height NS 35/15  | 51 mm   |

#### Technical data

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Maximum load current      | 52 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                                                      |

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## Technical data

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|                                                                                 |                                     |
|---------------------------------------------------------------------------------|-------------------------------------|
| Connection in acc. with standard                                                | IEC 60947-7-1                       |
| Nominal current I <sub>N</sub>                                                  | 41 A                                |
| Nominal voltage U <sub>N</sub>                                                  | 1000 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                          |
| 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                                     | 0.5 mm <sup>2</sup> / 0.3 kg        |
| Bending test conductor cross section/weight                                     | 6 mm <sup>2</sup> / 1.4 kg          |
| Bending test conductor cross section/weight                                     | 10 mm <sup>2</sup> / 2 kg           |
| Result of bending test                                                          | Test passed                         |
| Conductor cross section tensile test                                            | 0.5 mm <sup>2</sup>                 |
| Tractive force setpoint                                                         | 20 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                                |
| Tensile test result                                                             | Test passed                         |
| Tight fit on carrier                                                            | NS 35                               |
| Setpoint                                                                        | 5 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                                   | 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                              |
| Short circuit stability result                                                  | Test passed                         |
| Ageing test for screwless modular terminal block temperature cycles             | 192                                 |
| Result of aging test                                                            | 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 |

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## Technical data

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|                                                                       |                                                        |
|-----------------------------------------------------------------------|--------------------------------------------------------|
| Test spectrum                                                         | Service life test category 1, class B, on vehicle body |
| Test frequency                                                        | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$         |
| ASD level                                                             | $1.857 \text{ (m/s}^2\text{)}^2/\text{Hz}$             |
| 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                                                 |

### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Conductor cross section solid min.                                                      | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.                                                      | 10 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                                  | 20                  |
| Conductor cross section AWG/kcmil max                                                   | 8                   |
| Conductor cross section stranded min.                                                   | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded max.                                                   | 6 mm <sup>2</sup>   |
| Min. AWG conductor cross section, stranded                                              | 20                  |
| Max. AWG conductor cross section, stranded                                              | 10                  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.5 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.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded, 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> |
| Connection method                                                                       | Push-in connection  |
| Stripping length                                                                        | 12 mm               |
| Internal cylindrical gage                                                               | A5                  |

# Feed-through terminal block - PT 6-TWIN - 3211929

## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |

### 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 |

## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

### Approval details

|                                                                                                   |       |       |
|---------------------------------------------------------------------------------------------------|-------|-------|
| UL Recognized  |       |       |
|                                                                                                   | B     | C     |
| mm²/AWG/kcmil                                                                                     | 20-8  | 20-8  |
| Nominal current I <sub>N</sub>                                                                    | 40 A  | 40 A  |
| Nominal voltage U <sub>N</sub>                                                                    | 600 V | 600 V |

## Feed-through terminal block - PT 6-TWIN - 3211929

### Approvals

| cUL Recognized  |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|
|                                                                                                  | B     | C     |
| mm²/AWG/kcmil                                                                                    | 20-8  | 20-8  |
| Nominal current I <sub>N</sub>                                                                   | 40 A  | 40 A  |
| Nominal voltage U <sub>N</sub>                                                                   | 600 V | 600 V |

|                                                                                                    |  |  |
|----------------------------------------------------------------------------------------------------|--|--|
| cULus Recognized  |  |  |
|----------------------------------------------------------------------------------------------------|--|--|

### Accessories

#### Accessories

#### Assembly

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 - NS 35/ 7,5 UNPERF 2000MM - 0801681

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

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

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

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

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DIN rail - 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 - 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 - 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 - 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 - PT 6-TWIN - 3211929

### Accessories

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



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

---

DIN rail - 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

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

End cap - NS 35/15 CAP - 1206573



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

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DIN rail - 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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Spacer plate - DP PS-8 - 3036741



Spacer plate, Color: red

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End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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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 clamp - CLIPFIX 35 - 3022218



Snap-on end bracket, for 35 mm NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 8 and ZB 8/27, terminal strip marker KLM 2 and KLM, width: 9.5 mm, color: gray



## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

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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, can be fitted with ZB 5 and ZBF 5 zack marker strip, KLM 2, KLM3, and KML3L terminal strip marker, parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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### Bridges

Plug-in bridge - FBS 10-8 - 3030323



Plug-in bridge, Number of positions: 10, 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 4-8 - 3030307



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

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Plug-in bridge - FBS 3-8 - 3030297



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

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## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, Number of positions: 2, 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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Reducing bridge - RB ST 6-1,5/S - 3213250



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

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Switching jumper - SB-MER 2-8 - 3000587



Switching jumper, Length: 24.7 mm, Width: 16.4 mm, Height: 47.42 mm, Number of positions: 2, Color: gray/orange

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Switching jumper - SB-MER 3-8 - 3000588



Switching jumper, Length: 24.7 mm, Width: 24.6 mm, Height: 47.42 mm, Number of positions: 3, Color: gray/orange

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Switching jumper - SB-MER 4-8 - 3000589



Switching jumper, Length: 24.7 mm, Width: 32.8 mm, Height: 47.42 mm, Number of positions: 4, Color: gray/orange

# Feed-through terminal block - PT 6-TWIN - 3211929

## Accessories

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Plug-in bridge - FBSRH 2-8 - 3033802



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

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Plug-in bridge - FBSRH 3-8 - 3033803



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

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Plug-in bridge - FBSRH 4-8 - 3033804



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

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## Covers

End cover - D-PT 6-TWIN - 3211508



End cover, Length: 72.4 mm, Width: 2.2 mm, Color: gray

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## Marking

Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

#### Zack marker strip - ZB 8 CUS - 0825011



Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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#### Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, Bluemark, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Marker for terminal blocks - UC-TM 8 CUS - 0824597



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: Thermomark C+, Thermomark C, BLUEMARK CLED, Bluemark, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 8 CUS - 0829616



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 8 mm, Lettering field: 5.15 x 8.15 mm

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

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#### Zack Marker strip, flat - ZBF 8 CUS - 0825030



Zack Marker strip, flat, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8 mm, Lettering field: 5.15 x 8.15 mm

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#### Marker for terminal blocks - UC-TMF 8 - 0818137



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, Bluemark, Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 5.1 mm

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#### Marker for terminal blocks - UC-TMF 8 CUS - 0824654



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 5.1 mm

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#### Marker for terminal blocks - UCT-TMF 8 - 0828748



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: Thermomark C+, Thermomark C, BLUEMARK CLED, Bluemark, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.4 x 4.7 mm

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#### Marker for terminal blocks - UCT-TMF 8 CUS - 0829672



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.4 x 4.7 mm

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## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

Marker for terminal blocks - TMT (EX9,5)R - 0828295



Marker for terminal blocks, Roll, white, Unlabeled, Can be labeled with: Thermomark R, Thermomark X, Thermomark S, Mounting type: Snap into universal marker groove, Snap into flat marker groove, Lettering field: 9.5 x 50000 mm

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### Plug/Adapter

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



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

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Test plugs - MPS-MT - 0201744



Test plugs

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Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

Test plugs - PS-5/2,3MM RD - 3038723



Test plugs, Color: red

## Feed-through terminal block - PT 6-TWIN - 3211929

### Accessories

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Test plugs - PS-6/2,3MM RD - 3038736



Test plugs, Color: red

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Test adapter - PS-8/2,3MM RD - 3048564

Test adapter, Color: red

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Test adapter - PAI-4-N GY - 3032871



Test adapter, Color: gray

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Test adapter - PS-8 - 3031005



Test adapter, Color: red

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### Software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.

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Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts.



# Feed-through terminal block - PT 6-TWIN - 3211929

## Accessories

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### 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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End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

## Drawings

Circuit diagram



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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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Разъемы специального, военного и аэрокосмического назначения:

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кабельные сборки и микроволновые компоненты:

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