



General ordering data

| | |
|------------------|--|
| Order No. | 1020500000 |
| Part designation | WDU 35 |
| Version | Feed-through terminal, 35 mm ² , Screw connection, Wemid, dark beige, TS 35 |
| EAN | 4008190077013 |
| Qty. | 40 pc(s). |

Product notes

| | |
|----------------------|---|
| Note, ordering data | |
| Note, technical data | The tightening torque is 4.5 Nm for 16 - 50 mm ² and AWG 6 - 2/7 stranded conductors. Copper straps can be used; possible connections: 3 to 9 layers 9 x 0.8 mm. |
| Product description | Their small size compared to the respective rated cross-section makes the modular terminals with the compact design very popular. |
| Note, accessories | Socket and test plug, see section "W-series accessories" |

PT OKIECEEx/ATEX rating data

| | |
|--------------------------------------|---|
| EU-type examination certificate | KEMA98ATEX1683U |
| Download, German | KEMA98ATEX1683U_d.pdf |
| Download English | KEMA98ATEX1683U_e.pdf |
| IECEX Certificate of Conformity | IECEXULD05.0008U |
| Download | IECEXULD05.0008U_e.pdf |
| ATEX voltage | 690 V |
| ATEX current | 109 A |
| ATEX conductor cross-section | 35 mm ² |
| IECEX voltage | 690 V |
| IECEX current | 109 A |
| IECEX conductor cross-section | 35 mm ² |
| Voltage when using cross-connections | CrossConnectionGuide.pdf |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |

PT OKIEEx/ATEX rating data

| | |
|--------------------------------|-------------|
| Marking EN 60079-7 | Ex e II |
| Marking ATEX Directive 94/9/EC | Ex II 2 G D |

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

| | |
|--|---------------------|
| Solid, min. | 2.5 mm ² |
| Solid, max. | 10 mm ² |
| Stranded, min. | 16 mm ² |
| Stranded, max. | 16 mm ² |
| Flexible, min. | 2.5 mm ² |
| Flexible, max. | 16 mm ² |
| Flexible with ferrule, min. (DIN 46228 pt 1) | 2.5 mm ² |
| Flexible with ferrule, max. (DIN 46228 pt 1) | 16 mm ² |

Additional technical data

| | |
|--|-----------------------|
| Colour of insulating material | dark beige |
| Connection direction | on side |
| End plate required | Yes |
| Explosion-tested version "Ex e" | Yes |
| Installation advice | TS 35 |
| Insulating material | Wemid |
| Levels cross-connected internally | No |
| No. of identical terminals | 1 |
| No. of levels | 1 |
| No. of terminal strips per level | 2 |
| Open sides | right |
| Operating temperature range | - 50 °C, + 120 °C |
| Product family | W-Series |
| Type of connection | Screwed |
| Type of mounting | Snap-on |
| UL 94 flammability rating of insulation material | V-0 |
| Version | Feed-through terminal |

CSA rating data

| | |
|--------------------------|--------|
| Voltage (CSA) | 600 V |
| CSA current | 120 A |
| Min. cross-section (CSA) | AWG 12 |
| Max. cross-section (CSA) | AWG 2 |

Conductors for clamping (rated connection)

| | |
|-------------------------|---------------------|
| Clamping range, min. | 2.5 mm ² |
| Clamping range, max. | 50 mm ² |
| Type of connection | Screw connection |
| 2nd type of connection | screwed |
| Connection direction | on side |
| No. of connections | 2 |
| Stripping length | 18 mm |
| Clamping screw | M 6 |
| Blade size | 6.5 x 1.2 mm |
| Tightening torque range | 4.0...5.0 Nm |
| Gauge to IEC 60947-1 | B8 |

Conductors for clamping (rated connection)

| | |
|--|-----------------------|
| Solid, min. | 2.5 mm ² |
| Solid, max. | 16 mm ² |
| Stranded, min. | 2.5 mm ² |
| Stranded, max. | 50 mm ² |
| Flexible, min. | 2.5 mm ² |
| Flexible, max. | 35 mm ² |
| Flexible with ferrule, min. (DIN 46228/1) | 2.5 mm ² |
| Flexible with ferrule, max. (DIN 46228/1) | 35 mm ² |
| Flexible, min., ferrule with plastic collar (DIN 46228 pt 4) | 2.5 mm ² |
| Flexible, max., ferrule with plastic collar (DIN 46228 pt 4) | 35 mm ² |
| Twin wire-end ferrule, min. | 1.5 mm ² |
| Twin wire end ferrule, max. | 16 mm ² |
| AWG conductor size, min. | AWG 12 |
| AWG conductor size, max. | AWG 1/0 |
| AWG conductor size, min. | 3.31 mm ² |
| AWG conductor size, max. | 42.41 mm ² |

Dimensions

| | |
|--------------------------|-------|
| Width | 16 mm |
| Height of lowest version | 63 mm |
| Length | 60 mm |
| Weight | 54 g |
| TS 35 offset | 32 mm |

Rating data

| | |
|-----------------------------|--------------------|
| Rated cross-section | 35 mm ² |
| Rated voltage | 1,000 V |
| Rated impulse voltage | 8 kV |
| Rated current | 125 A |
| Standards | IEC 60947-7-1 |
| Current with max. conductor | 150 A |
| Pollution severity | 3 |

Strap connection

| | |
|---------------|------------------|
| Strap 1, max. | 9 layers 9 x 0.8 |
| Strap 1, min. | 3 layers 9 x 0.8 |
| Strap 2, min. | 6 x 9 x 0.8 |

UL rating data

| | |
|-------------------------|---------|
| Voltage (UL) | 1,000 V |
| Current (UL) | 150 A |
| Min. cross-section (UL) | AWG 12 |
| Max. cross-section (UL) | AWG 1 |

Approvals

Approvals institutes



Downloads

STEP 1020500000_09257_WDU_35_STP.stp

Classifications

| | |
|------------|-------------|
| eClass 4.1 | 27-14-11-20 |
| eClass 5.0 | 27-14-11-20 |
| eClass 5.1 | 27-14-11-20 |

Similar products

| Order No. | Part designation | Version |
|------------|------------------|--|
| 1020580000 | WDU 35 BL | Feed-through terminal, 35 mm ² , Screw connection, Wemid, blue, TS 35 |
| 1020600000 | WDU 35/IK | Feed-through terminal, 35 mm ² , Screw connection, Wemid, dark beige, TS 35 |
| 1020680000 | WDU 35/IK BL | Feed-through terminal, 35 mm ² , Screw connection, Wemid, blue, TS 35 |
| 1029000000 | WDU 35/IK/ZA | Feed-through terminal, 35 mm ² , Screw connection, Wemid, dark beige, TS 35 |
| 1028800000 | WDU 35/ZA | Feed-through terminal, 35 mm ² , Screw connection, Wemid, dark beige, TS 35 |
| 1028880000 | WDU 35/ZA BL | Feed-through terminal, 35 mm ² , Screw connection, Wemid, blue, TS 35 |