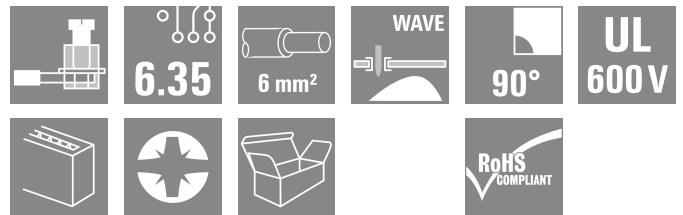
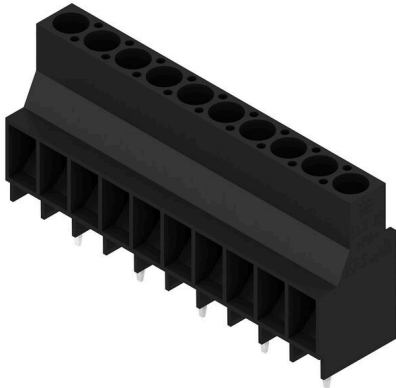


LL 6.35/10/90V 5.0SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



This PCB terminal, pitch 6.35 mm, with proven clamping yoke connection provides the following features: connections for 1000 V, 32 A, 6 mm² conductor cross-section, and off-set solder pins, 90° conductor outlet direction.

General ordering data

| | |
|--------------|--|
| Version | Printed circuit board terminals, 6.35 mm, Number of poles: 10, 90°, Solder pin length (l): 5 mm, tinned, black, Clamping yoke connection, Clamping range, max. : 6 mm ² , Box |
| Order No. | 1356930000 |
| Type | LL 6.35/10/90V 5.0SN BK BX |
| GTIN (EAN) | 4050118214697 |
| Qty. | 24 items |
| Product data | IEC: 1000 V / 32 A / 0.18 - 6 mm ² UL: 600 V / 30 A / AWG 26 - AWG 10 |
| Packaging | Box |

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Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |

Dimensions and weights

| | | | |
|--------------------------|-------------|-----------------|-------------|
| Depth | 15.85 mm | Depth (inches) | 0.624 inch |
| Height | 33.5 mm | Height (inches) | 1.3189 inch |
| Height of lowest version | 28.5 mm | Width | 64.1 mm |
| Width (inches) | 2.5236 inch | Net weight | 28.27 g |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

System parameters

| | | | |
|--|-----------------------------|--|--------------------------|
| Product family | OMNIMATE Signal - series LL | Wire connection method | Clamping yoke connection |
| Mounting onto the PCB | THT solder connection | Conductor outlet direction | 90° |
| Pitch in mm (P) | 6.35 mm | Pitch in inches (P) | 0.250 " |
| Number of poles | 10 | Pin series quantity | 1 |
| Fitted by customer | No | Number of rows | 1 |
| Max. adjacent poles per row | 24 | Solder pin length (l) | 5 mm |
| Solder pin dimensions | 1.0 x 0.6 mm | Solder eyelet hole diameter (D) | 1.3 mm |
| Solder eyelet hole diameter tolerance (D)+ | 0,1 mm | Number of solder pins per pole | 1 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 | Screwdriver blade standard | DIN 5264 |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |
| Clamping screw | M 3 | Stripping length | 8 mm |
| L1 in mm | 57.15 mm | L1 in inches | 2.250 " |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Protection degree | IP20 | | |

Material data

| | | | |
|---------------------------------------|------------|---------------------------------------|--------------------------------|
| Insulating material | Wemid (PA) | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| Contact surface | tinned | Coating | 4-6 µm SN |
| Tinning type | matt | Layer structure of solder connection | 2...4 µm Ni / 4...6 µm Sn matt |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -50 °C | Operating temperature, max. | 120 °C |
| Temperature range, installation, min. | -25 °C | Temperature range, installation, max. | 120 °C |

Conductors suitable for connection

| | |
|----------------------|----------------------|
| Clamping range, min. | 0.18 mm ² |
|----------------------|----------------------|

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| | |
|---|-------------------------|
| Clamping range, max. | 6 mm ² |
| Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross section AWG, max. | AWG 10 |
| Solid, min. H05(07) V-U | 0.18 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² |
| Stranded, min. H07V-R | 0.22 mm ² |
| Stranded, max. H07V-R | 4 mm ² |
| Flexible, min. H05(07) V-K | 0.22 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 4 mm ² |
| Plug gauge in accordance with EN 60999 a x b; ø | 3.6 mm x 3.1 mm; 2.7 mm |

| Clampable conductor | Cross-section for conductor connection | Type | fine-wired |
|--|--|------------------------------|-------------------------------|
| | | nominal | 0.5 mm ² |
| wire end ferrule | | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,5/14 OR |
| | | | |
| Cross-section for conductor connection | Type | fine-wired | |
| | nominal | 0.75 mm ² | |
| wire end ferrule | | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H0,75/14T HBL |
| | | | |
| Cross-section for conductor connection | Type | fine-wired | |
| | nominal | 1 mm ² | |
| wire end ferrule | | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H1,0/14 GE |
| | | | |
| Cross-section for conductor connection | Type | fine-wired | |
| | nominal | 1.5 mm ² | |
| wire end ferrule | | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H1,5/14D SW |
| | | Stripping length | nominal 7 mm |
| | | Recommended wire-end ferrule | H1,5/7 |
| Cross-section for conductor connection | Type | fine-wired | |
| | nominal | 2.5 mm ² | |
| wire end ferrule | | Stripping length | nominal 7 mm |
| | | Recommended wire-end ferrule | H2,5/7 |
| | | Stripping length | nominal 10 mm |
| | | Recommended wire-end ferrule | H2,5/15D BL |

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)

Rated data acc. to IEC

| | | | |
|---|------------------------|---|------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 32 A |
| Rated current, max. number of poles (Tu=20°C) | 32 A | Rated current, min. number of poles (Tu=40°C) | 32 A |

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Technical data

| | | | |
|---|--------|---|-------------------|
| Rated current, max. number of poles (Tu=40°C) | 32 A | Rated voltage for surge voltage class / pollution degree II/2 | 1000 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 1000 V | Rated voltage for surge voltage class / pollution degree III/3 | 800 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 8 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV | Short-time withstand current resistance | 3 x 1s with 120 A |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--|-----------------------------------|----------------|
| Institute (CSA) | CSA | Certificate No. (CSA) | 200039-1202191 |
| Rated voltage (Use group B / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V | Rated current (Use group B / CSA) | 30 A |
| Rated current (Use group C / CSA) | 30 A | Rated current (Use group D / CSA) | 5 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 10 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus) | CURUS | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 600 V | Rated voltage (Use group C / UL 1059) | 600 V |
| Rated voltage (Use group D / UL 1059) | 600 V | Rated current (Use group B / UL 1059) | 30 A |
| Rated current (Use group C / UL 1059) | 30 A | Rated current (Use group D / UL 1059) | 5 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 10 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|-----------|------------|-----------|
| Packaging | Box | VPE length | 414.00 mm |
| VPE width | 136.00 mm | VPE height | 42.00 mm |

Type tests

| | | |
|-------------------------------|----------|--|
| Test: Clampable cross section | Standard | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11 |
|-------------------------------|----------|--|

Important note

| | |
|----------------|---|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
| Notes | <ul style="list-style-type: none"> • Additional variants on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months |

Classifications

| | | | |
|-----------|----------|-------------|-------------|
| ETIM 8.0 | EC002643 | ETIM 9.0 | EC002643 |
| ETIM 10.0 | EC002643 | ECLASS 14.0 | 27-46-01-01 |

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Technical data

ECLASS 15.0

27-46-01-01

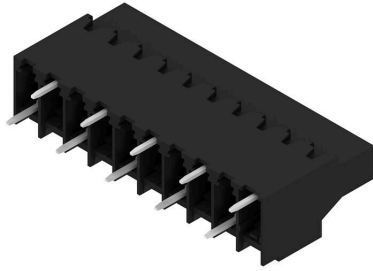
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Drawings

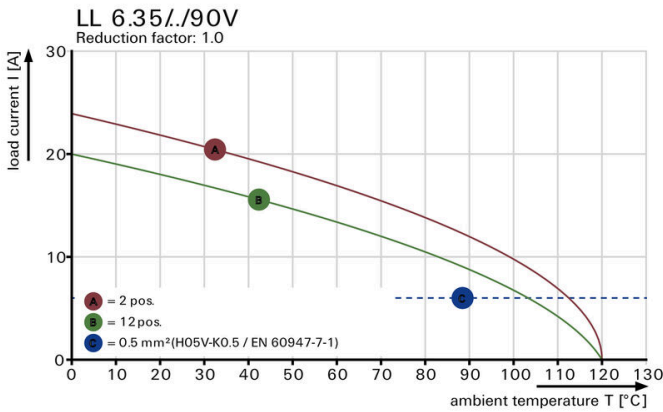
Product image



Dimensional drawing



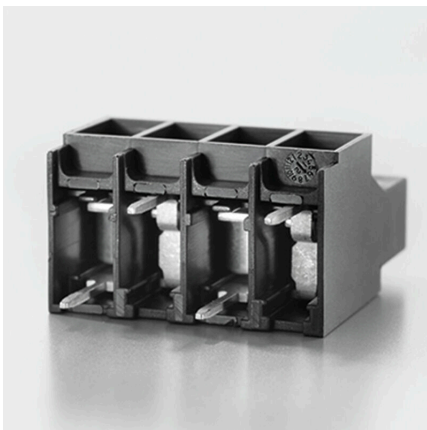
Graph



Graph



Product benefits



Power up to UL 600 V offset solder pins

Product benefits



Secure connection

Product benefits



Clear marking
Printing on 3 levels is possible

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Accessories

Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|--------------------------|--|
| Type | SDIS 0.8X4.0X100 | Version | |
| Order No. | 9008400000 | Screwdriver, Screwdriver | |
| GTIN (EAN) | 4032248056361 | | |
| Qty. | 1 ST | | |
| Type | SDS 0.8X4.0X100 | Version | |
| Order No. | 9008340000 | Screwdriver, Screwdriver | |
| GTIN (EAN) | 4032248056293 | | |
| Qty. | 1 ST | | |

Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | SDK PZ1 X 80 | Version | |
| Order No. | 2749440000 | Screwdriver, Blade width (B): 14.5 mm, 80 mm, Blade thickness (A): 1 | |
| GTIN (EAN) | 4050118895667 | | |
| Qty. | 1 ST | | |