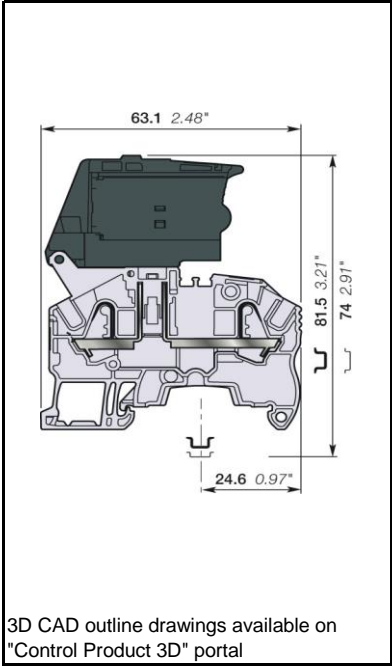
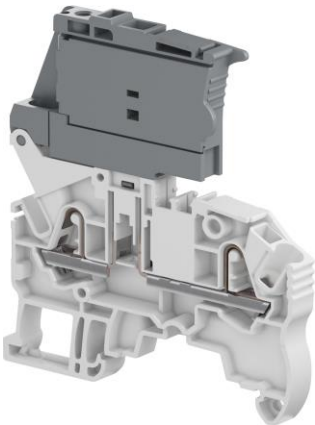




ZK2.5-SF PI-Spring Terminal Blocks For 5x20 fuses

Protect your circuits with 5x20 fuse terminal blocks compliant with IEC 60947-7-3 standard (fuse not supplied with the terminal blocks),

- Simplify the distribution thanks to the 2 jumper channels aligned with ZK4-3P feed-through and ZK2.5-S-R1 disconnect terminal blocks.



| | | |
|---|---|---------------------|
|  |  | 2.5 mm ² |
| | | 12 AWG |
| 6 mm 0.236 in Spacing | | |









Ordering Details

| Color | Type | Order Code | EAN Code | Pack ^(mg) | Weight (1 pce) g |
|-----------------|----------|-----------------|---------------|----------------------|---------------------|
| Grey, Dark Grey | ZK2.5-SF | 1SNK706410R0000 | 3472597064104 | 50 | 16.20 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Declarations and Certificates




| | | | | | | | | |
|----|----|------|------------------|-----|-----|--|--|--|
| | | RoHS | | | EAC | | | |
| CE | CB | RoHS | UL US USR CNR | | | | | |
| | | | | | | | | |
| | | BV | | DNV | | | | |

Declarations and Certificates

| | | |
|---|---------|----------------|
|  | CE | 1SND225106U10* |
|  | CB | 1SND162010A02* |
|  | RoHS | 1SND230535F02* |
|  | USR CNR | 1SND162012A02* |
| | | 1SND162012A02* |
|  | CSA | 1SND162014A02* |
|  | EAC | 1SND162001A11* |
| | | |
| | | |
| | | |
|  | BV | 1SND162013A02* |
|  | DNV | 1SND162023A02* |
| | | |
| | | |

General Information


The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

| | | | | | | | | |
|-----------------------|---|---------------------|----------|------------------------------------|--|-------------------|--|--|
| Protection | IEC 60947-1 | IP20 | | NEMA 1 | | | | |
| Rail |  | TH 35-7.5, TH 35-15 | | | | | | |
| Wire stripping length |  | 11 mm | 0.433 in | | | | | |
| | | Screw clamp | | Screw rail contact (Maximum value) | | Disconnect device | | |
| Operating tool | | Flat screwdriver | | | | | | |
| |  | 3.5 mm | 0.138 in | | | | | |

Material Specifications

| | |
|---------------------|---------------------------------|
| Insulating material | Polyamide |
| CTI | 600 V |
| Flammability | UL94 V0 |
| | NF F 16101 I2F2 |
| | Needle flame test: C 60615-11-5 |
| | Compliant |

Connecting capacity per clamp

| | | PI Spring | | | |
|---|---|------------------------------|-------------------|------|----------|
| 1 Rigid - Solid / Stranded conductor | Norme | IEC60947-7-3 | UL1059 | | |
| | Value | 0.2 ... 4 mm ² | 26 ... 12 AWG | | |
| 1 Flexible conductor | Norme | IEC60947-7-3 | | | |
| | Value | 0.22 ... 2.5 mm ² | | | |
| 1 Flexible conductor with non insulated ferrule | Norme | Manufacturer data | Manufacturer data | | |
| | Value | 0.22 ... 2.5 mm ² | 26 ... 14 AWG | | |
| 1 Flexible conductor with insulated ferrule | Norme | Manufacturer data | Manufacturer data | | |
| | Value | 0.22 ... 2.5 mm ² | 26 ... 14 AWG | | |
| Gauge | | A2 / 2.3 mm Dia. | | | |
| | | IEC 60947-1 | | | |
| Ferrule maximum outer diameter or conductor insulation maximum outer diameter |  | Max. | Manufacturer data | 5 mm | 0.187 in |

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²).

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Multi Connecting capacity per clamp

| | | | | | |
|---|-------|------------------------------|-------------------|--|--|
| 2 Rigid - Solid / Stranded conductors | Norme | | | | |
| | Value | | | | |
| 2 Flexible conductors | Norme | | | | |
| | Value | | | | |
| 2 Flexible conductors with twin ferrule | Norme | Manufacturer data | Manufacturer data | | |
| | Value | 0.22 ... 0.5 mm ² | 26 ... 20 AWG | | |

Don't mix **solid and flexible** conductors **in the same clamp**

Don't mix **solid or flexible** conductors of different sizes **in the same clamp**

The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3 (crimping capacity up to 10 mm²)

Cross section

| | | | | |
|-----------------------|-------------------|---------------------|-------------------|--------|
| Rated cross section | IEC60947-7-3 | 2.5 mm ² | UL1059 | 12 AWG |
| Maximum Cross section | Manufacturer data | 4 mm ² | Manufacturer data | 12 AWG |

Electrical characteristics

Current

| | | | |
|---|--------------------------------|-------------------|-------------------|
| Rated current | IEC60947-7-3 | | 6.3 A |
| | Field and factory wiring Cat.2 | | UL 1059 |
| | Factory wiring Cat.1 | | UL 1059 |
| | CSA-C-22.2 n°158 | | 16 A |
| Maximum Exe current | IEC/EN 60079-7 | | |
| Rated short-time withstand current 1 s (I _{cw}) | IEC60947-7-3 | | |
| Short-time withstand current | 0.5 s | Manufacturer data | |
| | 5 s | Manufacturer data | |
| | 10 s | Manufacturer data | |
| | 30 s | Manufacturer data | |
| | 1 min | Manufacturer data | |
| Rated short-circuit withstand current | UL 1059 | | 396 A |
| Max. current (45° temperature increase) / Max. cross section (mm ²) | Manufacturer data | | 4 mm ² |
| Maximum short circuit current (1s) | Manufacturer data | | |

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

| | | | |
|------------------------------------|-------------------------------|---------|--|
| SCCR | | UL 1059 | |
| With the following configurations: | | | |
| | Suitable conductor wire range | | |
| | Maximum voltage | | |
| | Fuse class / Max. amp. Rating | J | |
| | | T | |
| | | RK1 | |
| | | RK5 | |
| | | G | |
| | | CC | |

Voltage

| | | |
|---------------------------------|------------------|--------|
| Rated voltage | IEC 60947-1 | 500 V |
| Rated voltage | UL 1059 | 300 V |
| Use Group | UL 1059 | B, C |
| Rated voltage | CSA-C-22.2 n°158 | 300 V |
| Rated voltage Ex e | IEC/ EN 60079-7 | |
| Rated impulse withstand voltage | IEC 60947-1 | 6000 V |
| Dielectric test voltage | IEC 60947-1 | |
| Pollution degree | IEC 60947-1 | 3 |
| Overvoltage category | IEC 60947-1 | III |

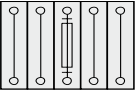
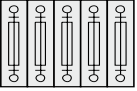
Temperature range

| | | | |
|-----------------------------|------------|-----------------|-----------------|
| Ambient temperature min/max | Storage | -55 ... +110 °C | -67 ... +230 °F |
| | Installing | -5 ... +40 °C | +23 ... +104 °F |
| | Service | -55 ... +110 °C | -67 ... +230 °F |
| | | | |

Dissipated power

| | | |
|---|-------------|-------|
| Maximum dissipated power at rated current | IEC 60947-1 | 1.6 W |
| Maximum dissipated power at maximum Exe current | IEC 60079-7 | |

Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3

| | | |
|---|---|-----|
| Separate arrangement / Overload and short-circuit protection |  1 fuse and 4 feed-through blocks | 2.5 |
| Separate arrangement / Exclusive short-circuit protection | | 4 |
| Compound arrangement / Overload and short-circuit protection |  5 fuse blocks | 1.6 |
| Compound arrangement / Exclusive short-circuit protection | | 4 |

Environmental Characteristics

Additional climatic tests

| | | | |
|------------------------|----------------|----------------------------------|-----------|
| Dry heat | IEC 60068-2 2 | | Compliant |
| | Conditions | Temperature | 110 °C |
| | | Duration of test | 96 h |
| Cyclic damp heat | IEC 60068-2 30 | | Compliant |
| | Conditions | Temperature | 55 °C |
| | | Relative humidity | 95 % |
| | | Number of cycles (1 cycle = 24h) | 2 |
| Cold | IEC 60068-2 1 | | Compliant |
| | Conditions | Temperature | -55 °C |
| | | Duration of test | 96 h |
| Damp heat steady state | IEC 60068-2-78 | | Compliant |
| | Conditions | Temperature | 40 °C |
| | | Relative humidity | 93 % |
| | | Duration of test | 96 h |

Corrosion

| | | | |
|----------------------------------|----------------|---------------------------|---------------------|
| Salt mist | IEC 60068-2 11 | | Compliant |
| | Conditions | Duration of test | 1000 h |
| | | Concentration | 5 % |
| SO ₂ | ISO 6988 | | Compliant |
| | Conditions | Duration of test | 48 h |
| | | Concentration | 0.2 dm ³ |
| Flowing mixed gas corrosion test | IEC 60068-2 60 | | Compliant |
| | Conditions | Number of the test method | 3 |
| | | Duration of test | 21 j |

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Vibrations and shocks

| | | | |
|---|------------|------------------|----------------------|
| Sinusoidal vibrations | Conditions | IEC 60068-2-6 | Compliant |
| | | Frequency range | 5 ... 100 Hz |
| | | Number of cycles | 1 |
| | | Acceleration | 7 m/s ² |
| Functional random vibrations Category 1 Class B 3 axes | Conditions | IEC 61373 | Compliant |
| | | Duration of test | 20 mn |
| | | Frequency range | 5 ... 150 Hz |
| | | Acceleration | 1 m/s ² |
| Long life testing at increased random vibrations Category 1 Class B 3 axes | Conditions | IEC 61373 | Compliant |
| | | Duration of test | 5 h |
| | | Frequency range | 5 ... 150 Hz |
| | | Acceleration | 5,7 m/s ² |
| Shock Category 1 Class B 3 axes | Conditions | IEC 61373 | Compliant |
| | | Duration of test | 30 ms |
| | | Acceleration | 5 G |

ZK2.5-SF Terminal Block Accessories Compatibility

Some accessories may modify the terminal block's rating. See complete information in the accessories catalog page.

| Description | Type | Order Code | Pack ^(ing) pieces | Weight g (1 pce) | |
|--------------------------|-----------|-----------------|---------------------------------|---------------------|--|
| 1 Terminal Block Markers | MG-CPM 13 | 1SNB041791R0612 | 1680 | 0.273 | |
| | MC512 | 1SNK140000R0000 | 22 | 9.00 | |
| | MC512-YL | 1SNK140004R0000 | 22 | 9.00 | |
| | MC512PA | 1SNK149999R0000 | 20 | 10.00 | |
| | MC612 | 1SNK150000R0000 | 22 | 10.00 | |
| | MC612-YL | 1SNK150004R0000 | 22 | 10.00 | |
| | MC612PA | 1SNK159999R0000 | 20 | 11.00 | |
| | PROCAP5 | 1SNK900609R0000 | 20 | 0.70 | |
| | UMH | 1SNK900611R0000 | 10 | 0.20 | |
| | PROCAP6 | 1SNK900612R0000 | 20 | 0.80 | |
| | SAT6 | 1SNK900615R0000 | 5 | 6.00 | |
| 2 Mounting Rails | PR3.G2 | 1SNA164800R0300 | 2 | 718.00 | |
| | PR4 | 1SNA168500R1200 | 2 | 915.00 | |
| | PR5 | 1SNA168700R2200 | 2 | 700 | |
| | PR30 | 1SNA173220R0500 | 2 | 328.00 | |
| | PR3.Z2 | 1SNA174300R1700 | 2 | 718.00 | |
| | PR50 | 1SNA178529R0400 | 2 | 1288.00 | |
| | | | | | |
| 3 End Sections | EK2.5-3P | 1SNK705911R0000 | 20 | 2.40 | |
| 4 End Stops | BAM4 | 1SNK900001R0000 | 50 | 14.00 | |
| | BAZ1 | 1SNK900002R0000 | 50 | 5.30 | |
| | BAZH1 | 1SNK900102R0000 | 20 | 24.00 | |
| 5 Circuit Separators | CS-R3 | 1SNK900107R0000 | 20 | 6.40 | |
| 6 Test Connectors | TC5-R1 | 1SNK900201R0000 | 10 | 5.20 | |
| 7 Test Adapters | TP2 | 1SNK900203R0000 | 20 | 1.70 | |
| | TP4 | 1SNK900205R0000 | 20 | 2.40 | |
| 8 Cross Spacing Jumpers | JB85-3 | 1SNK900603R0000 | 10 | 2.80 | |
| 9 Tools | PS-3 | 1SNK900650R0000 | 1 | 380.00 | |
| | | 1SNK900659R0000 | | | |
| 10 Jumper Bars | JB5-2 | 1SNK905302R0000 | 50 | 1.30 | |
| | JB5-3 | 1SNK905303R0000 | 50 | 2.00 | |
| | JB6-2 | 1SNK906302R0000 | 50 | 1.30 | |
| | JB6-3 | 1SNK906303R0000 | 50 | 2.10 | |
| | JB6-4 | 1SNK906304R0000 | 50 | 2.90 | |
| | JB6-5 | 1SNK906305R0000 | 50 | 3.60 | |
| | JB6-10 | 1SNK906310R0000 | 20 | 7.40 | |
| | JB6-50 | 1SNK906350R0000 | 10 | 38.10 | |
| 11 Spacers | ES-TC6 | 1SNK900105R0000 | 10 | 0.80 | |
| | | | | | |
| | | | | | |
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