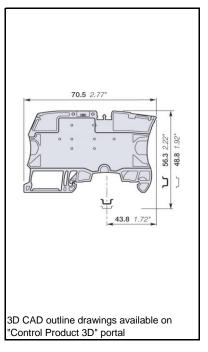
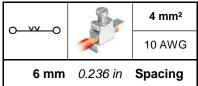
ZS4-R2 Screw Clamp Terminal Blocks Feed-through

- Simplify the distribution of circuits in marshalling cabinets thanks to our feed-through terminal blocks with the same profile as ZS4-SF fuse, ZS4-S-R1 disconnect and ZS4-PE-R2 ground terminal blocks: aligned conductor entries, jumper channels and marking in just 6 mm 0.236 in spacing,
- No end section needed: closed block.







Ordering Details

| Color | Type | Order Code | EAN Code | Pack ^(ing) | Weight |
|-------|--------|-----------------|---------------|-----------------------|-----------|
| | | | | | (1 pce) g |
| Grey | ZS4-R2 | 1SNK506013R0000 | 3472595060139 | 50 | 12.40 |
| | | | | | |
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Declarations and Certificates

| | C € | CB | RoHS RoHS | c Flus USR CNR | | (B) | EAC | | |
|---|------------|----|--------------|--------------------------|-----|------------|-----|--|--|
| - | | | (III) BV | | ONV | | | | |

| C€ | CE | | | | | 1SN | D22510 | 0U10* | |
|---|---------------------------------------|--|-----------------------------------|-----------------------|----------------|------------|-------------|-------------|------------|
| | СВ | СВ | | | 1SND161097A02* | | | | |
| RoHS BOHS | RoHS | | | | | 1SN | D23049 | 1F02* | |
| u AZ es Orono | USR C | NR | | | | 1SN | D16104 | 1A02* | |
| | | | | | | | | | |
| ® | CSA | | | | | | D16107 | | |
| EAC | EAC | | | | | 1SN | D16100 | 9A11* | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| BV | BV | | | | | 1SN | D16107 | 3A02* | |
| | | | | | | | | | |
| DVv | DNV | | | | | 1SN | D16108 | 7A02* | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | to in order to gu | arantee the termi | nal block electrica | al, mechanio | cal and en | vironmental | performance |) . |
| The following information mus | | 1 | arantee the termin | nal block electrica | al, mechanio | cal and en | vironmental | performance |). |
| The following information mus | st be strictly adhered | 1 | | 1 | al, mechanio | cal and en | vironmental | performance |). |
| The following information must Protection Rail | st be strictly adhered IEC 60947-1 | IP20 | | 1 | al, mechanio | cal and en | vironmental | performance | 3. |
| The following information must Protection Rail | st be strictly adhered IEC 60947-1 | IP20 TH 35-7.5, Th | H 35-15 | 1 | al, mechanio | cal and en | vironmental | performance |). |
| The following information must Protection Rail | st be strictly adhered IEC 60947-1 | IP20 TH 35-7.5, Th | H 35-15 | 1 | ntact | | vironmental | |). |
| General Information The following information must Protection Rail Wire stripping length Operating tool | st be strictly adhered IEC 60947-1 | TH 35-7.5, TH 10.5 mm | H 35-15 | NEMA 1 Screw rail cor | ntact | | | |). |
| The following information must Protection Rail Wire stripping length | st be strictly adhered IEC 60947-1 | TH 35-7.5, TH 10.5 mm | H 35-15 | NEMA 1 Screw rail cor | ntact | | | | |
| The following information must Protection Rail Wire stripping length Operating tool | st be strictly adhered IEC 60947-1 | TH 35-7.5, TH 10.5 mm Screw clamp | 35-15 0.413 in | NEMA 1 Screw rail cor | ntact | | | |). |
| The following information must Protection Rail Wire stripping length | st be strictly adhered IEC 60947-1 | TH 35-7.5, TH 10.5 mm Screw clamp Flat screwdriv 3.5 mm | | NEMA 1 Screw rail cor | ntact | | | | |
| The following information must Protection Rail Wire stripping length Operating tool | IEC 60947-1 | TH 35-7.5, TH 10.5 mm Screw clamp Flat screwdriv 3.5 mm 0.6 N.m | 0.413 in ver 0.138 in 5.31 N.m | NEMA 1 Screw rail cor | ntact | | | | |
| The following information must Protection Rail Wire stripping length Deprating tool | IEC 60947-1 | TH 35-7.5, TH 10.5 mm Screw clamp Flat screwdriv 3.5 mm 0.6 N.m | 0.413 in ver 0.138 in 5.31 N.m | NEMA 1 Screw rail cor | ntact | | | evice | |
| The following information must Protection Rail Wire stripping length Operating tool Torque | IEC 60947-1 | TH 35-7.5, TH 10.5 mm Screw clamp Flat screwdriv 3.5 mm 0.6 N.m | 0.413 in ver 0.138 in 5.31 N.m | NEMA 1 Screw rail cor | ntact | | connect d | evice | |

| | Needle flame test:C 60615-11-5 Compliant | | | | |
|---|--|-------------------|-------------------|--------|--|
| Connecting capacity per clam | ıp _ | Screw | clamp | | |
| 1 Rigid - Solid / Stranded conductor - | Norme | IEC60947-7-1 | UL1059 | | |
| - Rigid - Solid / Stranded conductor | Value | 0.2 4 mm² | 24 10 AWG | | |
| 4 Flavible conductor | Norme | IEC60947-7-1 | | | |
| 1 Flexible conductor - | Value | 0.22 4 mm² | | | |
| 1 Flexible conductor with non | Norme | Manufacturer data | Manufacturer data | | |
| insulated ferrule | Value | 0.22 4 mm² | 24 12 AWG | | |
| 1 Flexible conductor with insulated | Norme | Manufacturer data | Manufacturer data | | |
| ferrule | Value | 0.22 4 mm² | 24 12 AWG | | |
| Causa | | A3-B3 | 3 mm | | |
| Gauge | | IEC 60947-1 | | | |
| Ferrule maximum outer diameter or con- insulation maximum outer diameter | ductor | Ø Max. | Manufacturer data | 5.5 mm | |

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 | Norme | IEC60947-7-1 | UL1059 | |
|---------------------------------|-------|--------------------------|-------------------|--|
| conductors | Value | 0.2 1.5 mm ² | 24 16 AWG | |
| 2 Flexible conductors | Norme | IEC60947-7-1 | | |
| 2 Flexible colluctors | Value | 0.2 1.5 mm ² | | |
| 2 Flexible conductors with twin | Norme | Manufacturer data | Manufacturer data | |
| ferrule | Value | 0.22 1.5 mm ² | 24 16 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 | IEC60947-7-1 | 4 mm² | UL1059 | 10 AWG |
|-----------------------|-------------------|-------|-------------------|--------|
| Maximum Cross section | Manufacturer data | 4 mm² | Manufacturer data | 10 AWG |

Electrical characteristics Current

| Rated current | | | IEC60947-7-1 | 32 A | |
|---|--------------------------------|-------|-------------------|-------|-------------------|
| | Field and factory wiring Cat.2 | | UL 1059 | 30 A | |
| | Factory wiring Cat.1 | | UL 1059 | | |
| | | | CSA-C-22.2 n°158 | 30 A | |
| Maximum Exe current | | | IEC/EN 60079-7 | | |
| Rated short-time withstand current 1 s (Icw) | | | IEC60947-7-1 | 480 A | |
| 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 | | |
| Max. current (45° temperature increase) / Max | . cross section (mm²) | | Manufacturer data | 32 A | 4 mm ² |
| Maximum short circuit current (1s) | | | Manufacturer data | 480 A | • |

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 | |
| | | Т | |
| | | RK1 | |
| | | RK5 | |
| | | G | |
| | | CC | |

Voltage

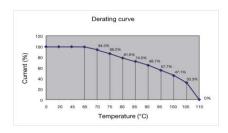
| IEC 60947-1 | 800 V |
|------------------|---|
| UL 1059 | 300 V |
| UL 1059 | B, C, D |
| CSA-C-22.2 n°158 | 300 V |
| IEC/ EN 60079-7 | |
| IEC 60947-1 | 8000 V |
| IEC 60947-1 | 2200 V |
| IEC 60947-1 | 3 |
| IEC 60947-1 | III |
| | UL 1059 UL 1059 CSA-C-22.2 n°158 IEC/ EN 60079-7 IEC 60947-1 IEC 60947-1 |

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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 |
| | | | |

Current Derating curve for continuous service temperature



Dissipated power

| Maximum dissipated power at rated current | IEC 60947-1 1 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

| reactor points and particular arrangement | | |
|---|---|--|
| Separate arrangement / Overload and short-circuit protection | | |
| Separate arrangement / Exclusive short-circuit protection | | |
| Compound arrangement / Overload and short-circuit protection | 1 | |
| Compound arrangement / Exclusive short-circuit protection | | |

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 | 96 h |
| | | Concentration | 5 % |
| SO2 | | 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 | | IEC 60068-2-6 | Compliant |
|--|------------|------------------|--------------------|
| | Conditions | Frequency range | 5 100 Hz |
| | | Number of cycles | 1 |
| | | Acceleration | 7 m/s ² |
| Functional random vibrations | | IEC 61373 | |
| Category 1 Class B 3 axes | Conditions | Duration of test | |
| | | Frequency range | |
| | | Acceleration | |
| Long life testing at increased random vibrations | | IEC 61373 | |
| Category 1 Class B 3 axes | Conditions | Duration of test | |
| | | Frequency range | |
| | | Acceleration | |
| Shock | | IEC 61373 | |
| Category 1 Class B 3 axes | Conditions | Duration of test | |
| | | Acceleration | |
| | | | |

ZS4-R2 Terminal Block Accessories Compatibility

| Description | Туре | Order Code | Pack ^(ing) | Weight | |
|--------------------------|-----------|-----------------|-----------------------|-----------|--|
| | | | pieces | 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 | |
| | UMH | 1SNK900611R0000 | 10 | 0.20 | |
| | PROCAP6 | 1SNK900612R0000 | 20 | 0.80 | |
| | SAT6 | 1SNK900615R0000 | 5 | 6.00 | |
| | SAT | 1SNK900623R0000 | 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 Stops | BAM4 | 1SNK900001R0000 | 50 | 14.00 | |
| | BAZ1 | 1SNK900002R0000 | 50 | 5.30 | |
| 4 Test Connectors | TC5-R1 | 1SNK900201R0000 | 10 | 5.20 | |
| 5 Test Adapters | TP2 | 1SNK900203R0000 | 20 | 1.70 | |
| • | TP4 | 1SNK900205R0000 | 20 | 2.40 | |
| 6 Component Plugs | PG5-R2 | 1SNK900403R0000 | 20 | 8.00 | |
| 7 Cross Spacing Jumpers | JB85-3 | 1SNK900603R0000 | 10 | 2.80 | |
| 8 Tools | PS-3 | 1SNK900650R0000 | 1 | 380.00 | |
| 9 Jumper Bars | 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 | |
| 10 Lateral Jumper Bars | PC6-2 | 1SNA113546R1400 | 10 | 2.00 | |
| - | PC6-10 | 1SNA113548R2600 | 10 | 8.00 | |
| | PC6-3 | 1SNA116536R0500 | 10 | 2.00 | |
| | PC6-4 | 1SNA116537R0600 | 10 | 3.00 | |
| 11 Spacers | ES-TC6 | 1SNK900105R0000 | 10 | 0.80 | |
| | | | | | |
| | | | | | |
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Fax +33 (0)4 7222 1935

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