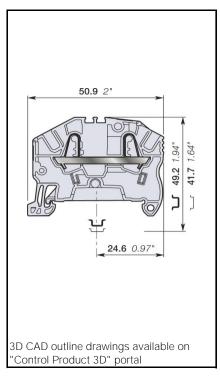
Technical Datasheet 1SNK162017D0201 Catalogue Page

ZK2.5 PI-Spring Terminal Blocks Feed-through

Combine high performance with compact dimensions:

- 1000 V IEC 600 V UL,
- Opt for the best marking visibility thanks to the up-front, flat marker zone, which lets you mark up to eight digits or increase the font size.





1SNK162023S0201

| O W O | PI-Spring Terminal Blocks | 2.5 mm ² |
|--------|------------------------------|---------------------|
| 0 | Terminal Blocks | 12 AWG |
| 5.2 mm | 0.205 in | Spacing |

Ordering Details

| Color | Туре | Order Code | EAN Code | Pack ^(ing) | Weight |
|--------|----------|-----------------|---------------|-----------------------|-----------|
| | | | | | (1 pce) g |
| Grey | ZK2.5 | 1SNK705010R0000 | 3472597050107 | 50 | 5.5 |
| Blue | ZK2.5-BL | 1SNK705020R0000 | 3472597050206 | 50 | 5.5 |
| Orange | ZK2.5-OR | 1SNK705030R0000 | 3472597050305 | 50 | 5.5 |
| Yellow | ZK2.5-YL | 1SNK705060R0000 | 3472597050602 | 50 | 5.5 |
| Green | ZK2.5-GN | 1SNK705061R0000 | 3472597050619 | 50 | 5.5 |
| Red | ZK2.5-RD | 1SNK705062R0000 | 3472597050626 | 50 | 5.5 |
| | | | | | |
| | | | | | |
| White | ZK2.5-WH | 1SNK705065R0000 | 3472597050657 | 50 | 5.5 |
| Black | ZK2.5-BK | 1SNK705066R0000 | 3472597050664 | 50 | 5.5 |

Declarations and Certificates

| C € | CB | RoHS RoHS | c SU us USR CNR | | Gost R | €x ATEX | IECEx IECEx | |
|------------|----|--------------|---------------------------|--|------------------|-------------------|----------------|--|
| | | (O) BV | | | ATEX Declaration | _ | | |



| € € ©E !!! | tificates | | | | | | | | | | |
|---|----------------|---|---|---|---|--|--------------|---------------------|-------------|------|--|
| IEC neg | CE | | | | | | | 22515 | | | |
| RoHS | СВ | | | | 1SND162016A02* | | | | | | |
| RoHS | RoHs USR C | ND | | | 1SND230535F02* 1SND162012A02* | | | | | | |
| USR CNR | USRC | INK | | | | | ISINL | 710201 | 2AU2 | | |
| ® | CSA | | | | | | ISNE | 16201 | 4A02* | | |
| © Gost R | GOST | R | | | | | | 16100 | | | |
| €x ATEX | ATEX | | | | | | | 16200 | | | |
| <mark>IECEx</mark> IECEx | IECEx | | | | | | ISNE | 16201 | 0A17* | | |
| | | | | | | | | | | | |
| © BV | BV | | | | | | ISNE |)16201 | 3A02* | | |
| | | | | | | | | | | | |
| Atex Declaration | Atex D | eclaration | | | | 1 | ISNE | 22508 | 5C10* | | |
| Explosive Atmosp | here: ATEX | (Classific | cation | | | | | | | | |
| Group Category | | | | | Protectio | n Method | | | | | |
| IM2 II 2 GD Ex eb I/IIC/ | IIIC | | | | Ex e: incr | reased security | y | | | | |
| In the presence of explo | osive dust atm | osphere, ter | minal blocks are | to be | installed i | in certified end | losure | e II 2D | | | |
| | | | | | | | | | | | |
| General Information | | | | | | | | | | | |
| The following information must b | | | | ninal blo | ock electric | al, mechanical a | nd envi | ronmenta | l performan | ice. | |
| Protection | IEC 60947-1 | + | NEMA250 | | | | | | | | |
| Rail | T. | TH 35-7.5, TH 35-15 | | | | | | | | | |
| Wire stripping length | | 11 mm | 0.433 in | | | | | | | | |
| | 1 | Coroux olor | 20 | Coro | w rail con | ataat | Dico | onnect d | louioo | | |
| | | Screw clar | пр | | kimum val | | DISC | onnect a | levice | | |
| Operating tool | | Flat screwe | driver | | | | | | | | |
| | | 3.5 mm | 0.138 in | | | | | | | | |
| Torque | | | | | | | | | | | |
| | | | | | | | | | | | |
| Material Specification | าร | | | | | | | | | | |
| Insulating material | | | | | | | - | D = 1: ! | | | |
| 3 | | | | | | | | Polyamic | ae | | |
| CTI | | | | | | | | 600 V | ae | | |
| CTI | | _ | | | | | UL94 | 600 V V0 | ae | | |
| CTI | | _ | | | | NF F 1 | UL94 | 600 V V0 | ae | | |
| CTI | | _ _ _ | | Nee | edle flame | | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability | non elevi | _ _ _ | | | | NF F 1 | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity | | Norme | IFC60947-7- | PI S | oring | NF F 1 | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI | | Norme Value | IEC60947-7- 0.2 4 mm ² | PI S _i | oring | NF F 1 | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co | | Value Norme | 0.2 4 mm ² | PI S ₁ | oring | NF F 1 test C 60615- | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co | onductor —— | Value Norme Value | 0.2 4 mm ² IEC60947-7-2 0.22 2.5 mr | PI S ₁ 1 1 1 1 | oring L 26 | NF F 1 e test C 60615- JL1059 . 12 AWG | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co 1 Flexible conductor 1 Flexible conductor with no | onductor —— | Value Norme | 0.2 4 mm ² | PI S _I 1 1 1 m ² lata | oring L 26 Manuf | NF F 1 test C 60615- | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity Rigid - Solid / Stranded co Flexible conductor Flexible conductor with no | onductor — | Value Norme Value Norme | 0.2 4 mm ² IEC60947-7- 0.22 2.5 mr Manufacturer d | PI S ₁ 1 1 1 m² lata m² | oring L 26 Manuf 26 | NF F 1 e test C 60615 JL1059 . 12 AWG acturer data | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity 1 Rigid - Solid / Stranded co 1 Flexible conductor 1 Flexible conductor with no insulated ferrule 1 Flexible conductor with insulated ferrule | onductor — | Value Norme Value Norme Value | 0.2 4 mm ² IEC60947-7- ² 0.22 2.5 mr Manufacturer d 0.22 2.5 mr | PI S ₁ 1 1 1 m ² lata m ² | Manuf. 26 Manuf. Manuf. | NF F 1 test C 60615 JL1059 . 12 AWG acturer data . 14 AWG | UL94 6101 | 600 V V0 I2F2 | | | |
| CTI Flammability Connecting capacity | onductor — | Value Norme Value Norme Value Norme Value Norme | 0.2 4 mm ² IEC60947-7- ² 0.22 2.5 mr Manufacturer d 0.22 2.5 mr Manufacturer d | PI Si 1 2 1 1 m ² lata m ² lata | Manuf 26 Manuf 26 Manuf 26 | NF F 1 e test C 60615 JL1059 . 12 AWG acturer data . 14 AWG acturer data | UL94 6101 | 600 V V0 I2F2 | | | |

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

As part of its on-going product improvement, ABB reserves the right to modify the characteristics or the products described in this document. The information given is not contractual. For further details please contact the ABB company marketing these products in your country.

Multi Connecting capacity per clamp

| 2 Rigid - Solid / Stranded | Norme | | | |
|---------------------------------|-------|--------------------------|-------------------|--|
| conductors | Value | | | |
| 2 Flexible conductors | Norme | | | |
| 2 Flexible colludctors | Value | | | |
| 2 Flexible conductors with twin | Norme | Manufacturer data | Manufacturer data | |
| ferrule | 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 | IEC60947-7-1 | 2.5 mm ² | UL1059 | 12 AWG |
|-----------------------|-------------------|---------------------|-------------------|--------|
| Maximum Cross section | Manufacturer data | 4 mm² | Manufacturer data | 12 AWG |

Electrical characteristics Current

| Rated current | | | IEC60947-7-1 | 24 A | |
|--|--------------------------------|-------|-------------------|-------|-------------------|
| | Field and factory wiring Cat.2 | | UL 1059 | 20 A | |
| | Factory wiring Cat.1 | | UL 1059 | | |
| | | | CSA-C-22.2 n°158 | 20 A | |
| Maximum Exe current | | | IEC/EN 60079-7 | 21 A | |
| Rated short-time withstand current 1 s (Icw) | | | IEC60947-7-1 | 300 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 | | | CSA-C-22.2 n°158 | | |
| Max. current (45° temperature increase) / Max. cross section (mm²) | | | Manufacturer data | 30 A | 4 mm ² |
| Maximum short circuit current (1s) | | | Manufacturer data | 300 A | · |

Short Circuit Current Rating (SCCR) SA UL 1059 supplement

| SCCR | | UL 1059 | 100 kA |
|------------------------------------|-------------------------------|---------|-----------|
| With the following configurations: | | | |
| | Suitable conductor wire range | | 14 12 AWG |
| | Maximum voltage | | 600 V |
| | Fuse class / Max. amp. Rating | J | 110 A |
| | | T | 110 A |
| | | RK1 | 100 A |
| | | RK5 | 30 A |
| | | G | 60 A |
| | | CC | 30 A |

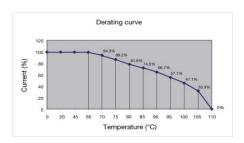
Voltage

| 1 - 1 - 9 - | | |
|---------------------------------|------------------|---------|
| Rated voltage | IEC 60947-1 | 1000 V |
| Rated voltage | UL 1059 | 600 V |
| Use Group | UL 1059 | B, C, D |
| Rated voltage | CSA-C-22.2 n°158 | 600 V |
| Rated voltage Ex e | IEC/ EN 60079-7 | 630 V |
| Rated impulse withstand voltage | IEC 60947-1 | 8000 V |
| Dielectric test voltage | IEC 60947-1 | 2200 V |
| 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 |
| | | | |

Current Derating curve for continuous service temperature



Dissipated power

| Maximum dissipated power at rated current | IEC 60947-1 | 0.8 W |
|---|-------------|-------|
| Maximum dissipated power at maximum Exe current | IEC 60079-7 | 0.7 W |

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

| | 711 tomporataro er 20 e 120 ee 11 7 e | |
|---|---------------------------------------|--|
| Separate arrangement / Overload and short-circuit protection | | |
| Separate arrangement / Exclusive short-circuit protection | | |
| Compound arrangement / Overload and short-circuit protection | | |
| Compound arrangement / Exclusive short-circuit protection | | |

Environmental Characteristics Additional climatic tests

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

Corrosion

| Salt mist | | IEC 60068-2 11 Comp | oliant |
|----------------------------------|------------|-----------------------------|--------|
| | Conditions | Duration of test 1000 | h |
| | | Concentration 5 % | |
| SO2 | | ISO 6988 Comp | liant |
| | Conditions | Duration of test 48 h | |
| | | Concentration 0.2 dr | n³ |
| Flowing mixed gas corrosion test | | IEC 60068-2 60 Comp | liant |
| | 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 |
| unctional random vibrations | | IEC 61373 Compliant |
| Category 1 Class B 3 axes | Conditions | Duration of test 20 mn |
| | | Frequency range 5 150 Hz |
| | | Acceleration 1 m/s ² |
| Long life testing at increased random vibrations | | IEC 61373 Compliant |
| Category 1 Class B 3 axes | Conditions | Duration of test 5 h |
| | | Frequency range 5 150 Hz |
| | | Acceleration 5.7 m/s ² |
| Shock | | IEC 61373 Compliant |
| Category 1 Class B 3 axes | Conditions | Duration of test 30 ms |
| | | Acceleration 5 G |
| | | |

ZK2.5 Terminal Block Accessories Compatibility Some accessories may modify the terminal blocks.

| Some accessories may | , modify | the terminal block's rating | See complete information in the accessories catalog page. | |
|-------------------------|----------|-------------------------------|---|--|
| JUITIC accessories iria | mouni | y the terminal block 3 rating | occ complete information in the accessories catalog page. | |

| End Stops | BAM3 | | pieces | g (1 pce) | |
|------------------------|---|--|--------|---------------------|-------|
| End Stops | DAM2 | | | (PCC) | |
| • | DAIVIS | 1SNK900001R0000 | 50 | 13.80 | |
| | BAZ1 | 1SNK900002R0000 | 20 | 5.30 | |
| | BAZH1 | 1SNK900102R0000 | 20 | 23.90 | |
| End Sections | EK2.5 | 1SNK705910R0000 | 20 | 1.8 | |
| 3 Jumper Bars | JB5-2 | 1SNK905302R0000 | 50 | 1.30 | |
| | JB5-3 | 1SNK905303R0000 | 50 | 2.00 | |
| | JB5-4 | 1SNK905304R0000 | 50 | 2.70 | |
| | JB5-5 | 1SNK905305R0000 | 50 | 3.50 | |
| | JB5-10 | 1SNK905310R0000 | 30 | 7.10 | |
| | JB5-50 | 1SNK905350R0000 | 10 | 36.10 | |
| Cross Spacing Jumpers | JB85-3 | 1SNK900603R0000 | 10 | 2.80 | |
| Circuit Separators | CS-R2 | 1SNK900106R0000 | 20 | 3.8 | |
| | CS-R3 | 1SNK900107R0000 | 20 | 6.4 | |
| Test Adapters | TP2 | 1SNK900203R0000 | 20 | 1.73 | |
| | TP4 | 1SNK900205R0000 | 20 | 2.41 | |
| 7 Test Connectors | TC5 | 1SNK900200R0000 | 10 | 5.23 | |
| | TC5-R1 | 1SNK900201R0000 | 10 | 5.23 | |
| Shield Connectors | SHBP | 1SNK900601R0000 | 20 | 4.12 | |
| Component Plugs | PG5-R2 | | 20 | 8.01 | |
| Mounting Rails | PR3.G2 | | 2 | | |
| | PR4 | 1SNA168500R1200 | 2 | 915.00 | |
| | PR5 | 1SNA168700R2200 | 2 | | |
| | PR30 | 1SNA173220R0500 | 2 | 328.00 | |
| | PR3.Z2 | 1SNA174300R1700 | 2 | | |
| | PR50 | 1SNA178529R0400 | 2 | 1 288.00 | |
| Tools | PS-3 | 1SNK900650R0000 | 1 | 380.00 | |
| Terminal Block Markers | MC512 | 1SNK140000R0000 | 22 | 9.00 | |
| | MC512-YL | 1SNK140004R0000 | 22 | 9.00 | |
| | MC512PA | 1SNK149999R0000 | 20 | 10.00 | |
| | PROCAP5 | 1SNK900609R0000 | 20 | 0.69 | |
| | UMH | 1SNK900611R0000 | 10 | 0.20 | |
| | SAT5 | 1SNK900614R0000 | 5 | 6.00 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Cross Spacing Jumpers Circuit Separators Test Adapters Test Connectors Shield Connectors Component Plugs Mounting Rails | JB5-2 JB5-3 JB5-4 JB5-5 JB5-10 JB5-50 TC5-R2 TP4 Test Connectors TP2 TP4 Test Connectors TC5 TC5-R1 Shield Connectors SHBP TC5-R1 SHBP TC5-R2 MOUnting Rails PR3.G2 PR4 PR5 PR30 PR3.Z2 PR50 PR3.Z2 PR50 PR3.Z2 PR50 PS-3 Terminal Block Markers MC512-YL MC512-YL | JB5-2 | Jumper Bars JB5-2 | JBS-2 |

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Contact us

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