

PCB terminal block - SPTAF 1/ 9-5,0-EL-EX - 1071055

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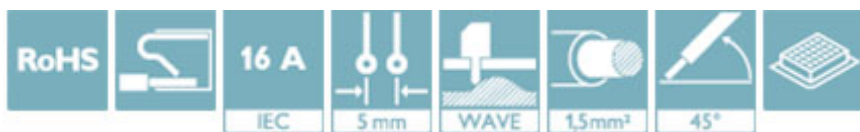
PCB terminal block, nominal current: 16 A, nominal cross section: 1.5 mm², pitch: 5 mm, number of positions: 9, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear double pinning, Solder pin [P]: 2.6 mm



The figure shows 10-pos. standard item (without EX marking)

Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Finger-operated release button for very convenient operation
- Small component size for applications where space is at a premium
- Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- Quick and convenient testing using integrated test option



Key Commercial Data

| | |
|----------------------|---------------|
| Packing unit | 1 |
| GTIN | |
| GTIN | 4063151100957 |
| Custom tariff number | 85369010 |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | SPTAF 1/..-EL-EX |
| Pitch | 5 mm |
| Number of positions | 9 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Linear double pinning |
| Number of levels | 1 |

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Technical data

Electrical parameters

| | |
|-----------------|-------|
| Nominal current | 16 A |
| Nom. voltage | 137 V |

Connection capacity

| | |
|---|---|
| Connection method | Push-in spring connection |
| Conductor cross section solid | 0.2 mm ² ... 1.5 mm ² (When connecting and possibly adjusting a solid conductor of 1.5 mm ² , the mechanical lateral forces, which can affect the terminal block, have to be absorbed by lateral support.) |
| Conductor cross section flexible | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross section AWG / kcmil | 24 ... 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 0.75 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 0.75 mm ² |
| Stripping length | 8 mm |

Material data - contact

| | |
|--|---|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (2 - 4 µm Sn) |
| Metal surface soldering area (top layer) | Tin (2 - 4 µm Sn) |

Material data - housing

| | |
|--|--------------|
| Housing color | green (6021) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |

Dimensions for the product

| | |
|-----------------------------|---------------|
| Length [l] | 11 mm |
| Width [w] | 45 mm |
| Height [h] | 12.8 mm |
| Pitch | 5 mm |
| Height (without solder pin) | 10.2 mm |
| Solder pin [P] | 2.6 mm |
| Pin dimensions | 0.75 x 0.3 mm |

Dimensions for PCB design

| | |
|---------------|--------|
| Hole diameter | 1.1 mm |
|---------------|--------|

Packaging information

| | |
|----------------------------|------|
| Type of packaging | Tray |
| Pieces per package | 70 |
| Denomination packing units | Pcs. |

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Technical data

General product information

| | |
|--------------|---|
| Type of note | Note on application |
| | Note on Ex protection |
| | Note on Ex protection |
| Note | Maximum permissible outer diameter of the wire insulation ≤ 3 mm |
| | Certificate of conformity and EX certificate available upon request |
| | Further information is to be found in the installation notes. |

Ambient conditions

| | |
|---|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C |

Termination and connection method

| | |
|--|---------------------|
| Test – repeated connection and release | IEC 60999-1:1999-11 |
| | Test passed |
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
| | Test passed |

Pull-out test

| | |
|--|--|
| Pull-out test | IEC 60999-1:1999-11 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm ² / solid / > 10 N |
| | 0.25 mm ² / flexible / > 10 N |
| | 1.5 mm ² / solid / > 40 N |
| | 1.5 mm ² / flexible / > 40 N |

Mechanical tests according to standard

| | |
|--------------------|---------------|
| Test specification | IEC 60947-7-4 |
|--------------------|---------------|

Electrical tests

| | |
|-------------------------|---------------------|
| Rated current | 16 A |
| Conductor cross section | 1.5 mm ² |

Air clearances and creepage distances

Temperature-rise test

| | |
|---------------|-----------------------|
| Result | Test passed |
| Specification | IEC 60947-7-4:2013-08 |

Current carrying capacity / derating curves

| | |
|---------------|---------------|
| Specification | IEC 60947-7-4 |
|---------------|---------------|

Vibration test

| | |
|---------------|-----------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Result | Test passed |
| Frequency | 10 - 150 - 10 Hz |

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Vibration test

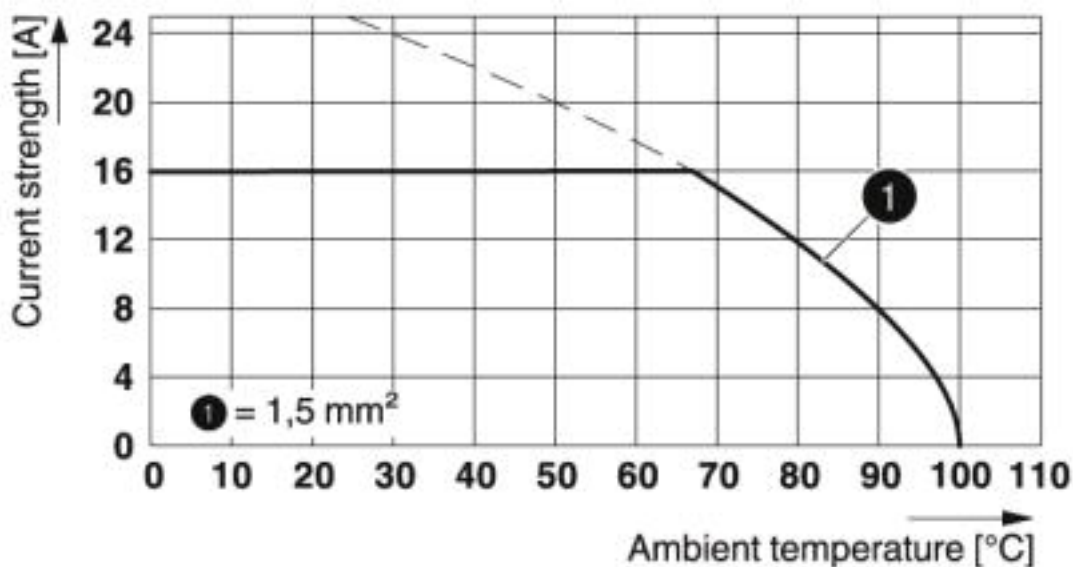
| | |
|------------------------|------------------------|
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 - 60.1 Hz) |
| Test duration per axis | 2.5 h |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Drawings

Diagram



Type: SPTAF 1/...-5,0-IL(EL)

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 27440401 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002643 |
|----------|----------|

Accessories

Accessories

Screwdriver tools

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Accessories

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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