

# ST 4-HESI (5X20) GY/GY - Fuse modular terminal block



3039890

<https://www.phoenixcontact.com/us/products/3039890>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 V, nominal current: 6.3 A, connection method: Spring-cage connection, 1 level, Rated cross section: 1 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Simple wiring of very small, flexible conductors
- Easy integration and replacement of fuses with the lever element
- Easy checking of the fuses with integrated test pick-offs
- Enables one-handed wiring
- Reliable vibration resistance thanks to spring-loaded contact elements
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3039890       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE02          |
| Product key                          | BE2134        |
| GTIN                                 | 4017918936822 |
| Weight per piece (including packing) | 15.53 g       |
| Weight per piece (excluding packing) | 14.7 g        |
| Customs tariff number                | 85369095      |
| Country of origin                    | TR            |

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## Technical data

### Notes

|                    |                                    |
|--------------------|------------------------------------|
| Order information: | Fuse-link not supplied as standard |
|--------------------|------------------------------------|

### Product properties

|                       |                     |
|-----------------------|---------------------|
| Product type          | Fuse terminal block |
| Number of connections | 2                   |
| Number of rows        | 1                   |
| Potentials            | 1                   |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |  |
|---|--|
| Fuse type                                       | Glass / ceramics / ...   |
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.02 W   |
| Fuse  | G / 5 x 20   |
| Maximum power dissipation                       | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)                     |
|   | max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)        |
|   | max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)                |
|   | max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

### 1 level

|   |  |
|---|--|
| Connection method   | Spring-cage connection                     |
| Stripping length  | 8 mm ... 10 mm                             |
| Internal cylindrical gage   | A4   |
| Connection in acc. with standard                                  | IEC 60947-7-3                              |
| Conductor cross-section rigid                                     | 0.08 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Cross section AWG   | 28 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible                                  | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG]                           | 28 ... 14 (converted acc. to IEC)          |
| Conductor cross-section flexible ultrasound-compressed            | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG] ultrasound-compressed     | 22 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup> |

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|   |  |
|---|--|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>          |
| Nominal cross section   | 1 mm <sup>2</sup>                                  |
| Nominal current   | 6.3 A  |
| Maximum load current  | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage   | 500 V  |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| Height             | 61.5 mm |
| Depth on NS 35/7,5 | 62.5 mm |
| Depth on NS 35/15  | 70 mm   |

## Material specifications

|   |                 |
|---|-----------------|
| Color   | gray (RAL 7042) |
| Flammability rating according to UL 94                                  | V0              |
| Insulating material group   | I               |
| Insulating material   | PA              |
| Static insulating material application in cold                          | -60 °C          |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C          |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3     |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg        |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed          |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed          |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed          |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|           |  |
|-----------|--|
| Spectrum  | Long life test category 2, bogie-mounted |
| Frequency | 5 - 250 Hz                               |
| ASD level | 6.12 (m/s <sup>2</sup> )/Hz              |

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|                        |                   |
|------------------------|-------------------|
| Acceleration           | 3.12g             |
| Test duration per axis | 5 h               |
| Test directions        | X-, Y- and Z-axis |
| Result                 | Test passed       |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 30g                               |
| Shock duration                 | 18 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |
| Result                         | Test passed                       |

## Ambient conditions

|  |  |
|--|--|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)  |
| Ambient temperature (assembly)           | -5 °C ... 70 °C  |
| Ambient temperature (actuation)          | -5 °C ... 70 °C  |
| Permissible humidity (operation)         | 20 % ... 90 %  |
| Permissible humidity (storage/transport) | 30 % ... 70 %  |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-3 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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## Drawings

### Application drawing



Fuse terminal blocks in interconnected arrangement,  
block consisting of 5 fuse terminal blocks

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Application drawing



Fuse terminal block in single arrangement,  
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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Circuit diagram



# ST 4-HESI (5X20) GY/GY - Fuse modular terminal block





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## Approvals


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|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 300 V                 | 10 A                  | 28 - 10           | -                    |
| C  | 300 V                 | 10 A                  | 28 - 10           | -                    |

|  <b>IECEE CB Scheme</b><br>Approval ID: NL-65055 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   | 500 V                 | 6.3 A                 | -                 | 0.08 - 4             |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 300 V                 | 10 A                  | 28 - 10           | -                    |
| D  | 300 V                 | 10 A                  | 28 - 10           | -                    |

|  <b>KEMA-KEUR</b><br>Approval ID: 71-113330 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 500 V                 | 6.3 A                 | -                 | 0.08 - 4             |

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000899 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.226 kg CO2e |
|---------|---------------|

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