## Panel feed-through terminal block - HDFK 16-VP - 0709796

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Cable lug connection, number of positions: 1 , load current: 76 A , cross section: $0.5 \mathrm{~mm}^{2}-25 \mathrm{~mm}^{2}$, connection direction of the conductor to plug-in direction: $0^{\circ}$, width: 12.1 mm , color: gray

The figure shows a 7-position version

## Your advantages

$\boxed{\text { Well-known connection principle allows worldwide use }}$
$\square$ Low temperature rise, thanks to maximum contact force
$\boxed{\square}$ Tool-free snap-in principle enables easy mounting on the device panel
$\boxed{\square}$ Automatic panel thickness compensation enables universal use
$\boxed{\text { Reliable seal even with low-viscosity molding compounds }}$


Key Commercial Data

| Packing unit | 1 pc |
| :---: | :---: |
| Minimum order quantity | 50 pc |
| GTIN |  |
| GTIN | 4017918153465 |
| Weight per Piece (excluding packing) | 27.300 g |
| Custom tariff number | 85369010 |
| Country of origin | Greece |

## Technical data

Item properties

| Brief article description | Panel feed-through terminal block |
| :--- | :--- |
| Range of articles | HDFK 16-VP |

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## Technical data

Item properties

| Pitch | 12.1 mm |
| :--- | :--- |
| Number of positions | 1 |
| Number of connections | 2 |
| Number of potentials | 1 |

## Electrical parameters

| Nominal current | 76 A |
| :--- | :--- |
| Nom. voltage | 500 V |
| Maximum load current | 101 A (with $25 \mathrm{~mm}^{2}$ conductor cross section) |
| Rated voltage (III/3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |

Connection capacity, external

| Connection method | Screw connection with tension sleeve |
| :--- | :--- |
| Connection direction of the conductor to plug-in direction | $0^{\circ}$ |
| Conductor cross section solid | $0.5 \mathrm{~mm}^{2} \ldots 25 \mathrm{~mm}^{2}$ |
| Conductor cross section flexible | $0.5 \mathrm{~mm}^{2} \ldots 16 \mathrm{~mm}^{2}$ |
| Conductor cross section flexible, with ferrule without plastic sleeve | $0.5 \mathrm{~mm}^{2} \ldots 16 \mathrm{~mm}^{2}$ |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | $0.5 \mathrm{~mm}^{2} \ldots 16 \mathrm{~mm}^{2}$ |
| 2 conductors with same cross section, solid | $0.5 \mathrm{~mm}^{2} \ldots 6 \mathrm{~mm}^{2}$ |
| 2 conductors with same cross section, flexible | $0.5 \mathrm{~mm}^{2} \ldots 6 \mathrm{~mm}^{2}$ |
| 2 conductors with same cross section, flexible, with ferrule without plastic <br> sleeve | $0.5 \mathrm{~mm}^{2} \ldots 6 \mathrm{~mm}^{2}$ |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with <br> plastic sleeve | $0.5 \mathrm{~mm}^{2} \ldots 6 \mathrm{~mm}^{2}$ |
| Internal cylindrical gage | B 7 |
| Stripping length | 16 mm |
| Torque | $2 \mathrm{Nm} \ldots 2.3 \mathrm{Nm}$ |

Connection capacity, internal

| Connection method | Cable lug connection |
| :--- | :--- |
| Connection direction of the conductor to plug-in direction | $0^{\circ}$ |
| Cable lug connection according to standard | M5 2.5 Nm 3 Nm |

## Material data - contact

| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ <br> JEDEC JESD 201 |
| :--- | :--- |
| Contact material | Cu alloy |
| Surface characteristics | tin-plated |

Material data - housing

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## Technical data

## Material data - housing

| Housing color | gray (7042) |
| :--- | :--- |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | $125^{\circ} \mathrm{C}$ |

Dimensions for the product

| Caption | Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung <br> im Download Center |
| :--- | :--- |
| Length [I] | 58 mm |
| Width [w ] | 12.1 mm |
| Height [ h ] | 40 mm |
| Pitch | 12.1 mm |

## Packaging information

| Type of packaging | packed in cardboard |
| :--- | :--- |
| Pieces per package | 50 |
| Denomination packing units | Pcs. |

## Electrical tests

| Rated current | 76 A |
| :--- | :--- |
| Conductor cross section | $16 \mathrm{~mm}^{2}$ |

Air clearances and creepage distances

| Minimum clearance - inhomogeneous field (III/3) | 5.5 mm |
| :--- | :--- |
| Minimum creepage distance value (III/3) | 6.3 mm |

Standards and Regulations

| Connection in acc. with standard | CUL |
| :--- | :--- |
| Flammability rating according to UL 94 | IEC $60947-7-1$ |
| Safety note | V0 |
|  | • Only electrically qualified personnel may install and operate the product. <br> To recognize and prevent danger, the qualified personnel must be familiar <br> with the basics of electrical engineering. |
|  | • The installation notes/Design In documents online on the download page <br> at phoenixcontact.com/products must be observed for this product. |
|  | • The cable entry funnel is not safe to touch. Never connect or disconnect <br> the terminal when it is energized. Take appropriate steps to ensure touch <br> protection. |

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## Technical data

## Standards and Regulations

|  | - To maintain the nominal voltage, align the cable lugs straight and <br> centered, and cast the terminals on the inside. |
| :--- | :--- |
|  | \# There is no electrical contact to the housing. Ensure protective grounding <br> is established for green-yellow color versions. |

## Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
| :--- | :--- |
| China RoHS | Environmentally Friendly Use Period = 50 years |
|  | For details about hazardous substances go to tab "Downloads", Category <br> "Manufacturer's declaration" |

## Drawings

Dimensional drawing


Dimensional drawing


## Classifications

eCl@ss

| eCl@ss 10.0.1 | 27141134 |
| :--- | :--- |
| eCl@ss 11.0 | 27141134 |
| eCl@ss 4.0 | 27141100 |
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141134 |
| eCl@ss 9.0 | 27141134 |

ETIM

| ETIM 2.0 | EC001283 |
| :--- | :--- |
| ETIM 3.0 | EC001283 |
| ETIM 4.0 | EC001283 |

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## Classifications

ETIM

| ETIM 6.0 | EC001283 |
| :--- | :--- |
| ETIM 7.0 | EC001283 |

UNSPSC

| UNSPSC 6.01 | 30211811 |
| :--- | :--- |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

Approvals
Approvals

Approvals
KEMA-KEUR / IECEE CB Scheme / EAC / cULus Recognized

Ex Approvals

Approval details

| KEMA-KEUR | KEMA | http://www.dekra-certification.com | 2169260.01 |
| :---: | :---: | :---: | :---: |
| Nominal voltage UN |  | 500 V |  |
| Nominal current IN |  | 76 A |  |
| mm²/AWG/kcmil |  | 16 |  |

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Approvals

| IECEE CB Scheme | http://www.iecee.org/ | NL-29947 |
| :---: | :---: | :---: |
| Nominal voltage UN | 500 V |  |
| Nominal current IN | 76 A |  |
| mm²/AWG/kcmil | 16 |  |


| EAC | $\boldsymbol{T} \boldsymbol{y}$ |
| :---: | :---: |


| cULus Recognized | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |  | E60425-19870911 |
| :---: | :---: | :---: | :---: |
|  | B | C |  |
| Nominal voltage UN | 600 V | 600 V |  |
| Nominal current IN | 85 A | 85 A |  |
| mm²/AWG/kcmil | 20-4 | 20-4 |  |

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