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PCB terminal block, Nominal current: 76 A, Nom. voltage: 1000 V, Pitch: 10.16 mm, Number of positions: 4, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 0 °, Color: green

The figure shows a 5-pos. version of the product

#### **Product Features**

- ☑ Compact high-capacity PCB terminal blocks with screw connection up to 16 mm², stranded, and a current carrying capacity of 76 A
- ☑ Unlimited 600 V UL approval thanks to zigzag pinning
- Terminal block bases that can be mounted side by side to create any number of positions



# Key commercial data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	32.9 GRM
Custom tariff number	85369010
Country of origin	Germany

# Technical data

#### **Dimensions**

Length	18.8 mm
Height	31 mm
Pitch	10.16 mm
Dimension a	30.48 mm
Pin dimensions	1 x 0,9 mm
Hole diameter	1.5 mm

# General

Range of articles	MKDS 10 HV



# Technical data

## General

Rated voltage (III/3)  Rated voltage (III/2)  Rated voltage (III/2)  Rated voltage (III/2)  Rated voltage (III/2)  1000 V  Connection in acc. with standard  EN-VDE  Nominal current I <sub>N</sub> 76 A  Nominal cross section  10 mm²  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Sn  Inflammability class according to UL 94  Internal cylindrical gage  B 6		
Rated surge voltage (III/2)         8 kV           Rated surge voltage (III/2)         8 kV           Rated voltage (III/2)         1000 V           Rated voltage (III/2)         1000 V           Connection in acc. with standard         EN-VDE           Nominal current I <sub>N</sub> 76 A           Nominal cross section         10 mm²           Maximum load current         76 A (with 16 mm² conductor cross section)           Insulating material         PA           Solder pin surface         Sn           Inflammability class according to UL 94         V0           Internal cylindrical gage         B 6           Stripping length         10 mm           Number of positions         4           Screw thread         M4           Tightening torque, min         1.2 Nm	Insulating material group	I
Rated surge voltage (III/2)  Rated voltage (III/2)  Romeous in acc. with standard  EN-VDE  Nominal current I <sub>N</sub> 76 A  Nominal cross section  10 mm²  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Inflammability class according to UL 94  Vol  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  Tightening torque, min  1000 V	Rated surge voltage (III/3)	8 kV
Rated voltage (III/2) Rated voltage (III/2) Rated voltage (III/2) Rounction in acc. with standard EN-VDE Nominal current I <sub>N</sub> Nominal current I <sub>N</sub> Raximum load current Insulating material Solder pin surface Inflammability class according to UL 94 Internal cylindrical gage Stripping length Number of positions Rated voltage (III/2) 1000 V 1000 M 1000 V	Rated surge voltage (III/2)	8 kV
Rated voltage (III/2) 1000 V  Rated voltage (III/2) 1000 V  Connection in acc. with standard EN-VDE  Nominal current I <sub>N</sub> 76 A  Nominal cross section 10 mm²  Maximum load current In 76 A (with 16 mm² conductor cross section)  Insulating material PA  Solder pin surface Sn  Inflammability class according to UL 94 V0  Internal cylindrical gage B 6  Stripping length 10 mm  Number of positions 4  Screw thread M4  Tightening torque, min 1.2 Nm	Rated surge voltage (II/2)	8 kV
Rated voltage (II/2)  Connection in acc. with standard  EN-VDE  Nominal current I <sub>N</sub> 76 A  Nominal cross section  10 mm²  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Sn  Inflammability class according to UL 94  V0  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  M4  Tightening torque, min  1000 V  EN-VDE  100 mm²  76 A  76 A  Whith 16 mm² conductor cross section)  PA  Son  10 mm²  4  1.2 Nm	Rated voltage (III/3)	800 V
Connection in acc. with standard  Nominal current I <sub>N</sub> 76 A  Nominal cross section  10 mm²  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Sn  Inflammability class according to UL 94  V0  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  M4  Tightening torque, min  Tightening torque, min	Rated voltage (III/2)	1000 V
Nominal current I <sub>N</sub> Nominal cross section  10 mm²  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Sn  Inflammability class according to UL 94  Vo  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  Tightening torque, min  76 A  M4  76 A  M6  M7  M8  76 A  76 A  M8  76 A  M8  76 A  M8  76 A  76 A  M8  76 A  M8  76 A  M8  76 A  76 A  M8  76 A  M8  76 A  76 A  M8  76 A  M8  76 A  M8  76 A  76 A  M8  76	Rated voltage (II/2)	1000 V
Nominal cross section  Maximum load current  76 A (with 16 mm² conductor cross section)  Insulating material  PA  Solder pin surface  Inflammability class according to UL 94  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  Tightening torque, min  10 mm²  76 A (with 16 mm² conductor cross section)  PA  Sn  U0  10 mm  W0  11 mm  12 mm  13 mm  M4  14 mm  15 mm  16 mm  17 mm  17 mm  18 mm  18 mm  19 mm  19 mm  10 mm  11 mm	Connection in acc. with standard	EN-VDE
Maximum load current  Insulating material  PA  Solder pin surface  Sn  Inflammability class according to UL 94  Vo  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  M4  Tightening torque, min  76 A (with 16 mm² conductor cross section)  PA  80  80  80  80  80  80  80  80  80  8	Nominal current I <sub>N</sub>	76 A
Insulating material PA Solder pin surface Sn Inflammability class according to UL 94 V0 Internal cylindrical gage B 6 Stripping length 10 mm Number of positions 4 Screw thread M4 Tightening torque, min 1.2 Nm	Nominal cross section	10 mm²
Solder pin surface  Inflammability class according to UL 94  V0  Internal cylindrical gage  B 6  Stripping length  10 mm  Number of positions  4  Screw thread  M4  Tightening torque, min  Solder pin surface  Inflammability class according to UL 94  V0  W0  W0  Internal cylindrical gage  B 6  Internal cylindrical gage  Inter	Maximum load current	76 A (with 16 mm² conductor cross section)
Inflammability class according to UL 94  Internal cylindrical gage  B 6  Stripping length  Number of positions  4  Screw thread  M4  Tightening torque, min  V0  MU  B 6  M0  M4  1.2 Nm	Insulating material	PA
Internal cylindrical gage B 6 Stripping length 10 mm Number of positions 4 Screw thread M4 Tightening torque, min 1.2 Nm	Solder pin surface	Sn
Stripping length 10 mm  Number of positions 4  Screw thread M4  Tightening torque, min 1.2 Nm	Inflammability class according to UL 94	V0
Number of positions 4 Screw thread M4 Tightening torque, min 1.2 Nm	Internal cylindrical gage	B 6
Screw thread M4 Tightening torque, min 1.2 Nm	Stripping length	10 mm
Tightening torque, min 1.2 Nm	Number of positions	4
	Screw thread	M4
Tightening torque max 1.5 Nm	Tightening torque, min	1.2 Nm
	Tightening torque max	1.5 Nm

# Connection data

Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section stranded min.	0.5 mm²
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	16 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
2 conductors with same cross section, solid min.	0.5 mm²
2 conductors with same cross section, solid max.	6 mm²
2 conductors with same cross section, stranded min.	0.5 mm²
2 conductors with same cross section, stranded max.	6 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.5 mm <sup>2</sup>



# Technical data

## Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	4 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	6 mm²
Minimum AWG according to UL/CUL	20
Maximum AWG according to UL/CUL	6

# Classifications

# eCl@ss

eCl@ss 4.0	27141109
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
eCl@ss 5.1	27141190
eCl@ss 6.0	27261101
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401

## **ETIM**

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643

# UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

# Approvals

# Approvals

## Approvals

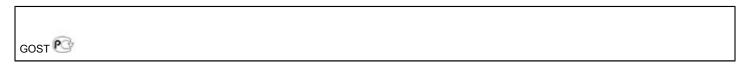
UL Recognized / SEV / cUL Recognized / IECEE CB Scheme / GOST / CCA / GOST / SEV / cULus Recognized



# Approvals Ex Approvals Approvals submitted Approval details UL Recognized **\$\)** В С mm²/AWG/kcmil 20-6 20-6 Nominal current IN 60 A 60 A 600 V Nominal voltage UN 600 V SEV mm²/AWG/kcmil 16 Nominal current IN 76 A Nominal voltage UN 800 V cUL Recognized **5** С В mm²/AWG/kcmil 20-6 20-6 60 A Nominal current IN 60 A Nominal voltage UN 600 V 600 V IECEE CB Scheme CB GOST 🚭 CCA



# Approvals



SEV	
mm²/AWG/kcmil	16
Nominal current IN	76 A
Nominal voltage UN	800 V

cULus Recognized Sus

#### Accessories

## Accessories

Screwdriver tools

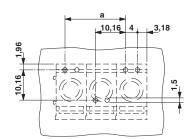
Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

# Drawings

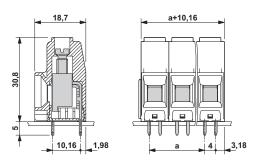
## Drilling diagram



# 



# Dimensioned drawing



The illustration shows the dimensional drawing of the 3-pos. version of the product

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