1700389

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PCB terminal block, nominal current: 12 A, rated voltage (III/2): 160 V, nominal cross section: 1 mm², number of potentials: 7, number of rows: 1, number of positions per row: 7, product range: FFKDS(A) 1,5/..-V, pitch: 3.81 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.4 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Intuitive use through colour coded actuation lever
- · Operation and conductor connection from one direction enable integration into front of device
- · Two solder pins reduce the mechanical strain on the soldering spots
- · The latching on the side enables various numbers of positions to be combined
- · Vertical connection enables multi-row arrangement on the PCB

Commercial Data

Item number	1700389
Packing unit	50 рс
Minimum order quantity	50 pc
Sales Key	AAL
Product Key	AALBAF
GTIN	4017918985844
Weight per Piece (including packing)	6.479 g
Weight per Piece (excluding packing)	5.906 g
Customs tariff number	85369010
Country of origin	GR

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Technical Data

Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	FFKDS(A) 1,5/V
Number of positions	7
Pitch	3.81 mm
Number of connections	7
Number of rows	1
Number of potentials	7
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	160 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Туре	PC terminal block can be aligned
Nominal cross section	1 mm²
onductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.14 mm² 1 mm²
Conductor cross section flexible	0.14 mm ² 1 mm ²
Conductor cross section AWG	26 18
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.34 mm²
Stripping length	10 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

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Material specifications

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
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 °C

Material data - actuating element

Color (Actuating element)	orange (2003)
Insulating material	PA
Insulating material group	1
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 °C

Dimensions

Dimensional drawing	h b b b b b b b b b b b b b b b b b b b
Pitch	3.81 mm
Width [w]	29.17 mm
Height [h]	17.1 mm



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Length [I]	12.7 mm
Installed height	13.7 mm
Solder pin length [P]	3.4 mm

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm

Environmental and real-life conditions

mbient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Type of packaging	packed in cardboard
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Approvals

1	CSA Approval ID: 13631				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		150 V	10 A	26 - 18	-

rnr	1
EAC	

EAC Approval ID: B.01687

CULus Recogni Approval ID: E60425	zed 5-19870330			
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
	300 V	6 A	26 - 16	-
	300 V	6 A	26 - 16	-

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Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
ECLASS-13.0 2/460101	ECLASS-13.0	27460101

ETIM

	ETIM 8.0	EC002643		
UNSPSC				
	UNSPSC 21.0	39121400		

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Environmental Product Compliance

China RoHS

Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values

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