

1789621

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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: 1, number of rows: 1, number of positions per row: 1, 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. End terminal block for terminating custom-grouped blocks.

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	1789621
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	AA12
Product Key	AALBAF
Catalog Page	Page 147 (C-1-2013)
GTIN	4017918044091
Weight per Piece (including packing)	1.268 g
Weight per Piece (excluding packing)	1.023 g
Customs tariff number	85369010
Country of origin	GR



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Technical Data

Product properties

Туре	End terminal
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	FFKDS(A) 1,5/V
Number of positions	1
Pitch	3.81 mm
Number of connections	1
Number of rows	1
Number of potentials	1
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

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	1 mm²

Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.14 mm² 1 mm²
Conductor cross section flexible	0.14 mm² 1 mm²
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

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	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	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 °C

Material data - actuating element

Color ()	0
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 °C

Dimensions

Dimensional drawing	ph ph
Pitch	3.81 mm
Width [w]	6.35 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 |

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Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	l l
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

Ambient conditions

-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
-40 °C 70 °C
30 % 70 %
-5 °C 100 °C

Packaging specifications

Type of packaging	packed in cardboard
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Approvals

CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
Only rigid conductors	150 V	10 A	26 - 18	-

CB scheme	IECEE CB Scheme Approval ID: NL-25836	•			
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		130 V	-	-	- 1

EAC
Approval ID: B.01687

CULus Recognized Approval ID: E60425-19870330				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	300 V	6 A	26 - 16	-
Use group D				
	300 V	6 A	26 - 16	-

KEUR	KEMA-KEUR Approval ID: 2160724.0	1			
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		130 V	-	-	- 1



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 8.0	EC002643
UNSPSC	

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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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Accessories

FFKDS/V-3,81 - PCB terminal block

1789647

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