

1098180

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Printed circuit board terminal, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of potentials: 7, number of rows: 1, number of positions per row: 7, product range: LPTA 6/, pitch: 7.5 mm, connection method: Lever Push-in connection, mounting: Wave soldering, conductor/PCB connection direction: 30 °, color: green, Pin layout: Zigzag pinning W, Solder pin [P]: 3.6 mm, type of packaging: packed in cardboard

Your advantages

- · Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- · Clear lever positions provide reliable feedback on opened or closed clamping spaces
- Defined contact force ensures that contact remains stable over the long term
- · Time-saving push-in connection when lever is closed
- · Intuitive operation, thanks to a color-coded actuation lever

Commercial data

Item number	1098180
Packing unit	25 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA14
Product key	AANTBB
GTIN	4055626941820
Weight per piece (including packing)	35.4 g
Weight per piece (excluding packing)	33.728 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	LPTA 6/
Product line	COMBICON Terminals L
Number of positions	7
Pitch	7.5 mm
Number of connections	7
Number of rows	1
Number of potentials	7
Pin layout	Zigzag pinning W
Data management status	
Article revision	04

Electrical properties

Nominal current I _N	41 A
Nominal voltage U _N	1000 V
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Nominal cross section	6 mm²
Conductor connection	
Connection method	Lever Push-in connection
Conductor cross section rigid	0.2 mm ² 10 mm ² (Conductor connection with open terminal point)
	0.5 mm ² 10 mm ² (Push-in connection)
Conductor cross section flexible	0.34 mm² 10 mm²
Conductor cross section AWG	22 8
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 6 mm² (Conductor connection with open terminal point)
	1.5 mm ² 6 mm ² (Push-in connection)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 6 mm² (Conductor connection with open terminal point)
	0.5 mm ² 6 mm ² (Push-in connection)
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 2.5 mm²



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Height [h]

Length [I]

Installed height

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Stripping length	12 mm 14 mm
unting	
Mounting type	Wave soldering
Pin layout	Zigzag pinning W
erial specifications	
aterial 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 (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 μm Sn)
aterial 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
aterial data – actuating element	
Color (Actuating element)	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
ensions	
Dimensional drawing	
Dilliciisional drawing	n p
Pitch	7.5 mm
Width [w]	53.5 mm

33.76 mm

28 mm 30.16 mm



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Solder pin length [P]

Specification

Insulating material group

	0
Pin dimensions	1.5 x 1.2 mm
PCB design	
Hole diameter	2 mm
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N
setpoint/actual value	0.34 mm² / flexible / > 15 N
	10 mm² / solid / > 90 N
	10 mm² / solid / > 90 N 10 mm² / flexible / > 90 N
ectrical tests Temperature-rise test	10 mm² / flexible / > 90 N
Temperature-rise test Specification	10 mm² / flexible / > 90 N IEC 60947-7-4:2019-01
Temperature-rise test	10 mm² / flexible / > 90 N
Temperature-rise test Specification	10 mm² / flexible / > 90 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting
Temperature-rise test Specification Requirement temperature-rise test	10 mm² / flexible / > 90 N IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting
Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current	IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
Temperature-rise test Specification Requirement temperature-rise test Short-time withstand current Specification	IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.

3.6 mm

Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

IEC 60947-7-4:2019-01



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minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm
vironmental and real-life conditions	
Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	50 m/s² (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Glow-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
Aging	
Specification	IEC 60947-7-4:2019-01
Ambient conditions	
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %

Packaging specifications

Ambient temperature (assembly)

Type of packaging	packed in cardboard	

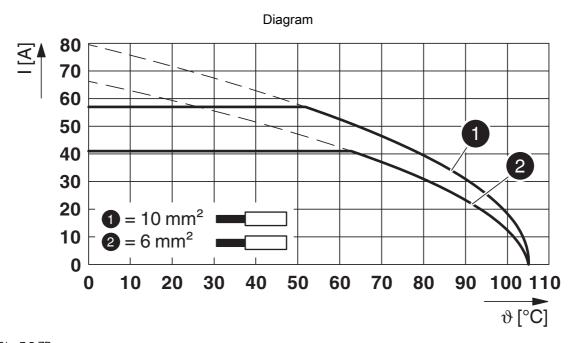
-5 °C ... 100 °C



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Drawings



Type: LPTA 6/...-7,5-ZB



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-13.0	27460101
ECLASS-12.0	27460101
ETIM	
ETIM 9.0	EC002643
UNSPSC	

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%

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