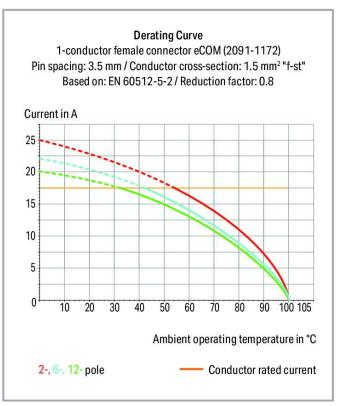
Gripping plate; 1,50 mm²; light gray

1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 12-pole; 1.0 mm Ø solder pin;

MAGO

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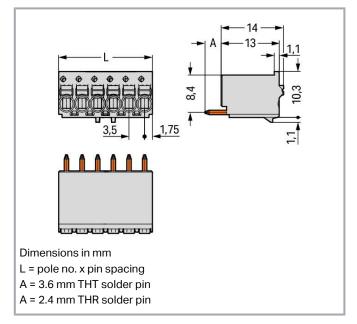
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

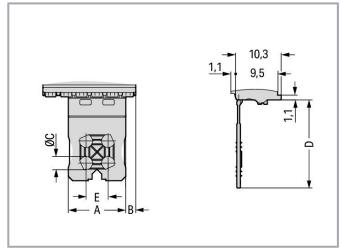
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Item description

- Universal connection for all conductor types
- Simple, push-in termination of solid and ferruled conductors
- Easy-to-use design does not require special tools
- Ability to wire while mated or unmated
- Integrated test ports for testing parallel to conductor entry
- Custom-installed solder pins

Data Notes

Safety information

The picoMAX® Pluggable Connection System includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Electrical data

Ratings per IEC/EN

Ratings per IEC/EN 60664-1

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Nominal voltage (III/3)	160 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	10 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Connection data

Connection points	12
Total number of potentials	12
Number of connection types	1
Number of levels	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Actuation direction 1	Operation parallel to conductor entry
Solid conductor	0.2 1.5 mm² / 24 14 AWG
Fine-stranded conductor	0.2 1.5 mm² / 24 14 AWG
Fine-stranded conductor; with insulated ferrule	0.25 0.75 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 1.5 mm²
Strip length	8 9 mm / 0.31 0.35 inches
Conductor connection direction to PCB	90 °
Pole number	12

Physical data

_	
Pin spacing	3.5 mm / 0.138 inches

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Width	42 mm / 1.654 inches
Height	38 mm / 1.496 inches
Depth	11.4 mm / 0.449 inches
Solder pin length	3.6 mm
Solder pin diameter	1 mm
Drilled hole diameter with tolerance	1.2 ^(+0.1) mm

Mechanical data

Variable coding	No
Design	With gripping plate
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	Yes
Mating direction to the PCB	90 °
Locking of plug-in connection	none

PCB contact

PCB contact THT

Material data

Note (material data)

Information on material specifications can be found here

Color	light gray
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.033 MJ
Weight	7.1 g

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Environmental requirements

Limit temperature range	-60 +100 °C
Processing temperature	-35 +60 °C

Commercial data

Product Group	26 (picoMAX Connectors)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821162391
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals

name NL-49736 /A1 2362521
/A1
2362521
2362521
71-
102260
REV.1

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UR





ULUnderwriters Laboratories Inc.

UL 1977

E45171



Underwriters Laboratories Inc.

UL 1059

E45172

Optional accessories

Testing and measuring

Testing accessories



Item no.: 735-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to www.wago.com/735-500 0,5mm²

Coding

Coding

×

Item no.: 2091-1610

Coding key carrier; suitable for 3.5 mm pin spacing; orange

www.wago.com/2091-1610

Tool

Operating tool



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Downloads

Documentation

Additional Information

Technical Section

2019 年4月3日

pdf

2.1 MB

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Technical explanations

CAD/CAE-Data

CAD data

2D/3D Models 2091-1162

URL

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PCB Design

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URL

Symbol and Footprint via Ultra Librarian 2091-1162

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 2091-1162

URL

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Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

ZUKEN Portal 2091-1162 URL Download

Asset Administration Shell

Asset Administration Shell 2091-1162 URL Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2091-1162

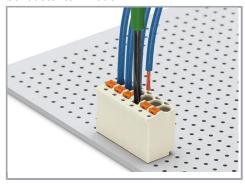
URL Download

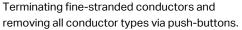
1-conductor THT female connector straight; push-button; Push-in CAGE CLAMP®;

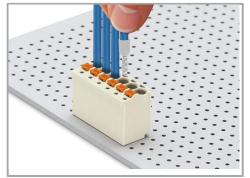
 1.5 mm^2 ; Pin spacing 3.5 mm; 12-pole; 1.0 mm Ø solder pin; Gripping plate; $1,50 \text{ mm}^2$; light gray

Installation Notes

Conductor termination







Solid and ferruled conductors are terminated by simply pushing them into unit.

Marking



Pole marking via direct marking perpendicular to conductor entry.



Pole marking via factory direct marking.

Testing

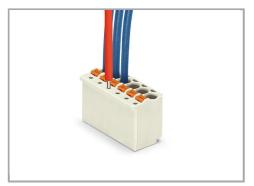
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Testing via 1 mm Ø test pin – touch contact.

 $\label{lem:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$