

Data sheet | Item number: 2060-1451/998-404

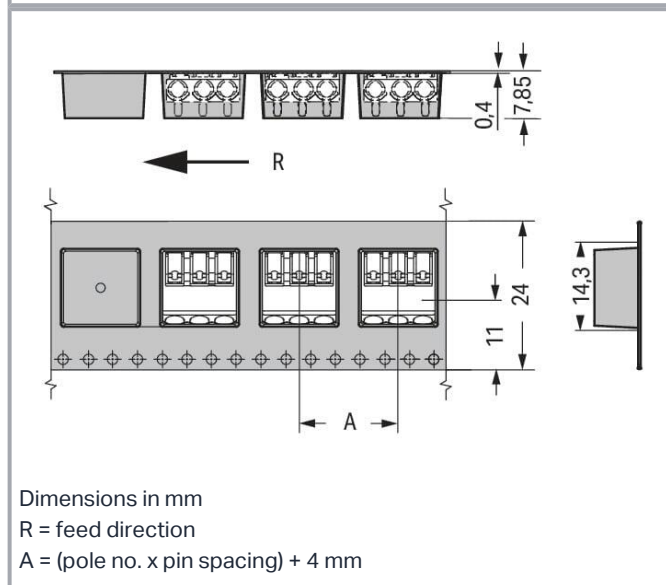
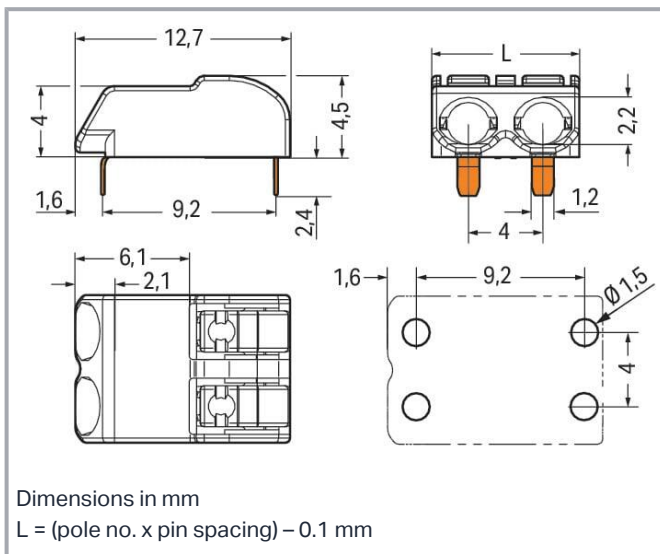
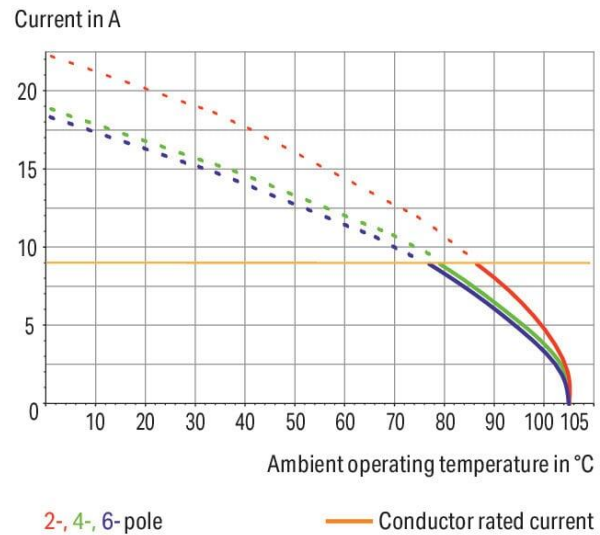
THR PCB terminal block; push-button; 0.75 mm²; Pin spacing 4 mm; 1-pole;
Push-in CAGE CLAMP®; in tape-and-reel packaging; 0,75 mm²; white

www.wago.com/2060-1451/998-404



Color:

Current-Carrying Capacity Curve
Pin spacing: 4 mm / Conductor cross-section: 0.75 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1



Subject to changes. Please also observe the further product documentation!

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Item description

- THR PCB terminal blocks with Push-in CAGE CLAMP® connection technology and push-buttons
- Push-in termination of solid and ferruled conductors
- Convenient termination/removal of fine-stranded conductors via push-buttons
- Just 4.5 mm tall
- Available in tape-and-reel packaging for automated assembly
- Also suitable for wave soldering

Data Notes

Note

Application notes:

Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260 °C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.

Recommendation

Recommendation for stencil:

150 µm material thickness

Stencil hole diameter identical to metal-plated PCB hole outer diameter

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	63 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV

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Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	9 A
Legend (ratings)	(III / 2) $\triangle$ Overvoltage category III / Pollution degree 2

Ratings per UL 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	9 A

Connection data

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

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.2 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor	0.2 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 0.34 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 0.34 mm ²
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Conductor connection direction to PCB	0 °
Pole number	1

Physical data

Pin spacing	4 mm / 0.157 inches
Width	3.9 mm / 0.154 inches
Height	6.9 mm / 0.272 inches
Height from the surface	4.5 mm / 0.177 inches
Depth	12.7 mm / 0.5 inches
Solder pin length	2.4 mm
Solder pin dimensions	1.2 x 0.75 mm
Plated through-hole diameter (THR)	1.5 ^(+0.1) mm
Reel diameter of tape-and-reel packaging	330 mm

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Tape width	24 mm
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PCB contact

PCB contact	THR
Solder pin arrangement	Over the entire terminal strip (in-line)
Number of solder pins per potential	2

Material data

Note (material data)	Information on material specifications can be found here
Color	white
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Copper alloy
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.003 MJ
Weight	0.2 g
MSL per J-STD 020D	1

Environmental requirements

Limit temperature range	-60 ... +105 °C
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Commercial data

eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
ECCN	NO DATA
PU (SPU)	10800 (1200) pcs
Packaging type	box
Country of origin	CN
GTIN	4055143331227
Customs tariff number	85369010000

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Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7724
	CCA DEKRA Certification B.V.	EN 60838	NTR NL-2168246
	CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7843
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	2168246.01
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-108183
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-109040
	KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-114208

Declarations of conformity and manufacturer's declarations

Certificate

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Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Optional accessories

Ferrule			
Ferrule			
	Item no.: 216-132 Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated		www.wago.com/216-132
	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored		www.wago.com/216-131
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow		www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise		www.wago.com/216-302
Tool			
Operating tool			
	Item no.: 206-860 Operating tool; for 2060 Series; multicoloured		www.wago.com/206-860
	Item no.: 2060-189 Operating tool; made of insulating material; for 2060 Series; white		www.wago.com/2060-189

Downloads

Documentation

Additional Information

Technical Section	3 anp. 2019 r.	pdf 2.1 MB	Download
Technical explanations			
THR Soldering Process		pdf 548.2 kB	Download

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CAD/CAE-Data

CAD data

2D/3D Models 2060-1451/998-404	URL	Download
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CAE data

ZUKEN Portal 2060-1451/998-404	URL	Download
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Asset Administration Shell

Asset Administration Shell 2060-1451/998-404	URL	Download
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PCB Design

Symbol and Footprint via Ultra Librarian 2060-1451/998-404	URL	Download
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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

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- 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 2060-1451/998-404

URL

Download

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:

- 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

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■ Xpedition

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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2060-1451/998-404

URL

Download

THR PCB terminal block; push-button; 0.75 mm²; Pin spacing 4 mm; 1-pole; Push-in CAGE CLAMP®; in tape-and-reel packaging; 0,75 mm²; white

Installation Notes

Conductor termination



Insert solid conductors via push-in termination.

Conductor termination



Insert/remove fine-stranded conductors by lightly pressing on push-button, e.g., via optional operating tool (206-860).

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