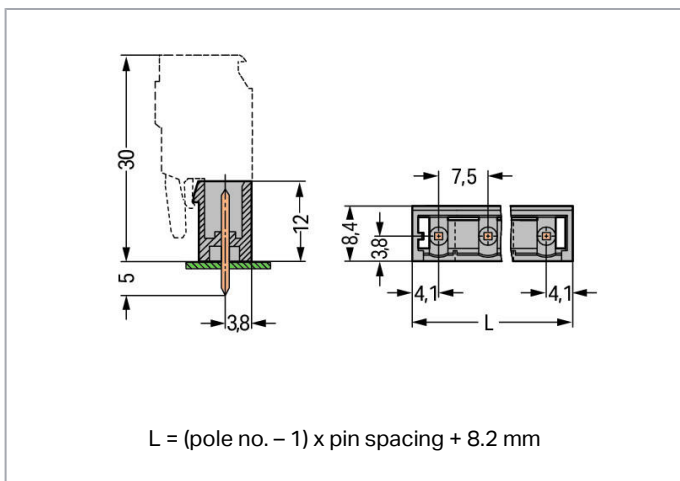
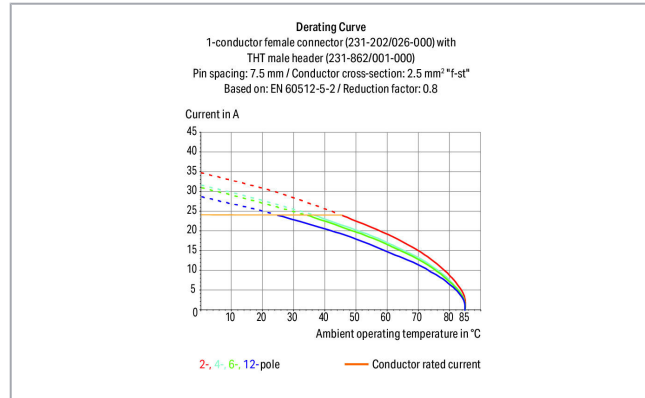
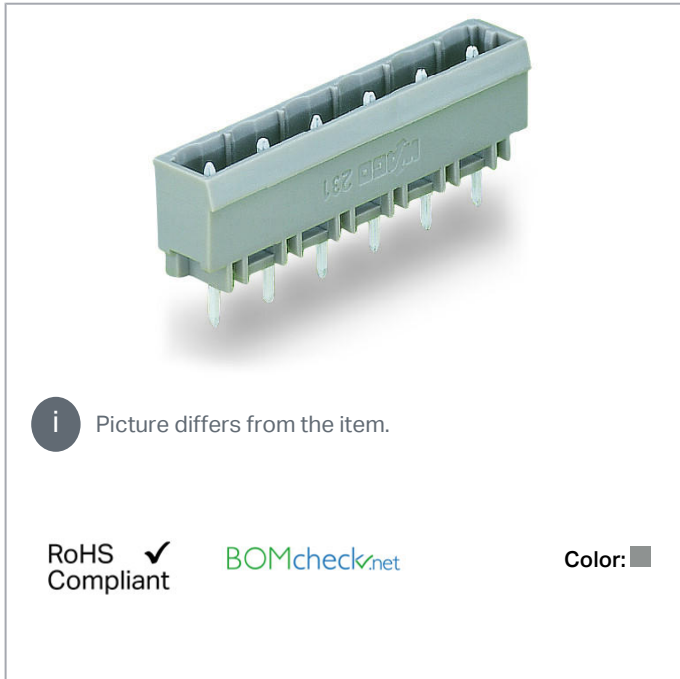


Data sheet | Item number: 231-233/001-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 7.5 mm; 3-pole; gray



www.wago.com/231-233/001-000



Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- With coding fingers

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

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**Safety information 1:**

The *MCS – MULTI 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.

Data**Electrical data****Ratings per IEC/EN 60664-1**

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated current	12 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL 1059

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

Ratings per UL 1977

Rated voltage UL 1977	600 V
Rated current UL 1977	10 A

Ratings per CSA

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

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



Connection data

Pole No.	3
Total number of potentials	3
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	7.5 mm / 0.295 inch
Width	23.2 mm / 0.913 inch
Height	17 mm / 0.669 inch
Height from the surface	12 mm / 0.472 inch
Depth	8.4 mm / 0.331 inch
Solder pin length	5 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 ^(+0.1) mm

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90°

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Material Data

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.026 MJ

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Weight	1.3g
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Environmental Requirements



Limit temperature range	-60 ... +100 °C
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Commercial data



Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	PL
GTIN	4044918864510
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	1466354
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1869876- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z



UL-Approvals

Certificate

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Logo	Approval	Additional Approval Text	name
	UL Underwriters Laboratories Inc.	UL 1059	20190731- E45172
	UR Underwriters Laboratories Inc.	UL 1977	20150318- E45171

Counterpart

	Item no.231-203/026-000 Female plug; 3-pole; 12 AWG max; pin spacing 7.5 mm; 1 conductor per pole; gray	www.wago.com/231-203/026-000
	Item no.231-2203/026-000 2-conductor female connector; 2.5 mm ² ; Pin spacing 7.5 mm; 3-pole; 2,50 mm ² ; gray	www.wago.com/231-2203/026-000
	Item no.231-2203/037-000 2-conductor female connector; Locking lever; 2.5 mm ² ; Pin spacing 7.5 mm; 3-pole; 2,50 mm ² ; gray	www.wago.com/231-2203/037-000
	Item no.2231-203/026-000 Female plug; 3-pole; push-button; 12 AWG max; pin spacing 7.5 mm; 1-conductor per pole; gray	www.wago.com/2231-203/026-000
	Item no.2231-203/037-000 Female plug; 3-pole; push-button; locking lever; 12 AWG max; pin spacing 7.5 mm; 1-conductor per pole; gray	www.wago.com/2231-203/037-000
	Item no.2231-203/031-000 Female plug; 3-pole; push-button; mounting flange; 12 AWG max; pin spacing 7.5 mm; 1-conductor per pole; gray	www.wago.com/2231-203/031-000
	Item no.231-203/031-000 Female plug; 3-pole; mounting flange; 12 AWG max; pin spacing 7.5 mm; 1 conductor per pole; gray	www.wago.com/231-203/031-000
	Item no.231-203/037-000 Female plug; 3-pole; locking lever; 12 AWG max; pin spacing 7.5 mm; 1 conductor per pole; gray	www.wago.com/231-203/037-000
	Item no.732-103/026-000 1-conductor female plug; angled; 2.5 mm ² ; Pin spacing 7.5 mm; 3-pole; 2,50 mm ² ; gray	www.wago.com/732-103/026-000

Compatible products


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

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Marking accessories

	Item no.: 210-833 Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white	www.wago.com/210-833
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	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	www.wago.com/210-834
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Coding

	Item no.: 231-130 Coding key; snap-on type; light gray	www.wago.com/231-130
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	Item no.: 231-500 Spacer; for formation of groups; light gray	www.wago.com/231-500
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Downloads

Documentation

Additional Information

Technical explanations	03.04.2019	pdf 3.6 MB	Download
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CAD files

CAD data

2D/3D Models 231-233/001-000	URL	Download
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CAE data

EPLAN Data Portal 231-233/001-000	URL	Download
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ZUKEN Portal 231-233/001-000	URL	Download
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PCB Design

Symbol and Footprint 231-233/001-000	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
- Altium 6 to current version
- Cadence Allegro
- DesignSpark

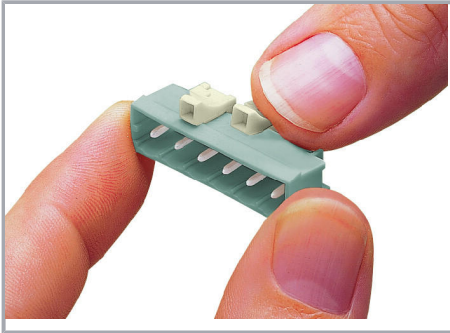
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- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 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

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

Installation Notes

Coding



Coding a male header – fitting coding key(s).

Product family

MCS MIDI Classic

[Show all products from the family](#)

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

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