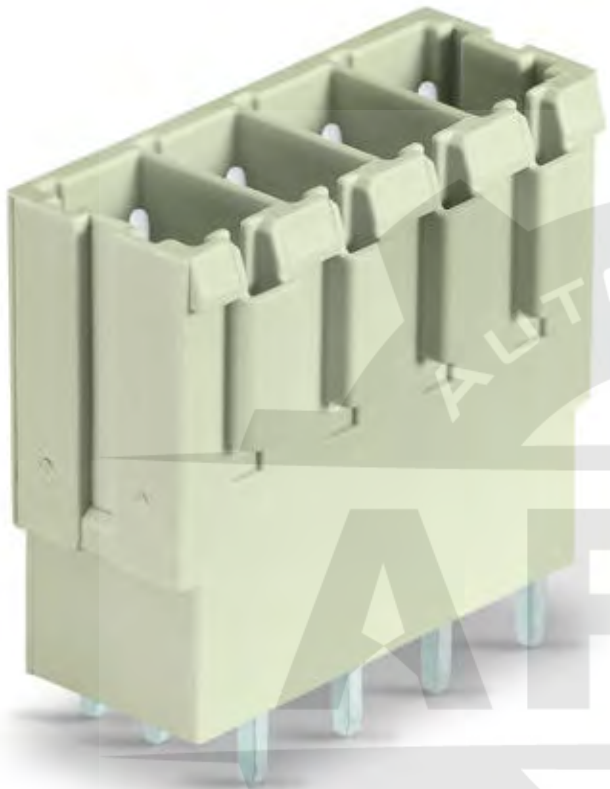


Data sheet | Item number: 831-3607

THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against
mismatching; Pin spacing 7.62 mm; 7-pole



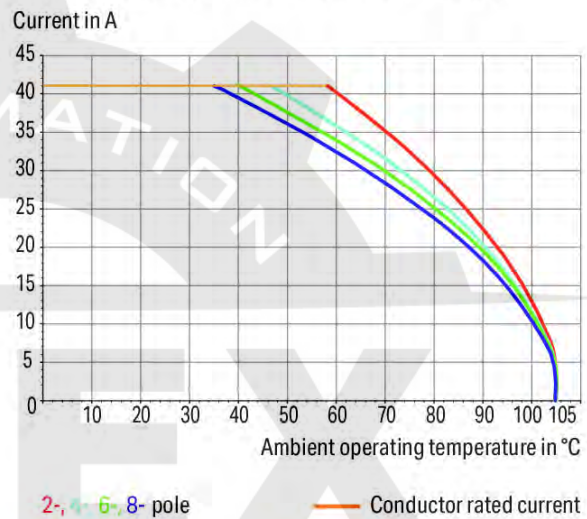
831-3607



Derating Curve

1-conductor female connector (831-3102) with
THT male header (831-3622)

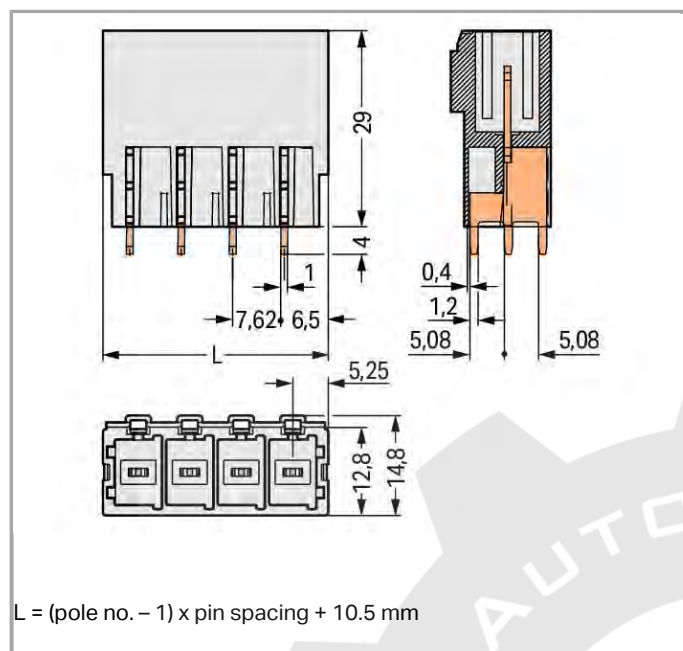
Pin spacing: 7.62 mm / Conductor cross-section: 6 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 0.8



RoHS ☒
Compliant

BOMcheck.net

Color: ☐



Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismatching
- Coding via coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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

Rated voltage (III / 3)	500 V
Rated impulse voltage (III / 3)	6 kV
Rated voltage (III / 2)	630 V
Rated impulse voltage (III / 2)	6 kV
Rated voltage (II / 2)	1000 V
Rated impulse voltage (II / 2)	6 kV
Rated current	41 A

Approvals per UL 1059

Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	42 A
Rated voltage UL (Use Group D)	600 V
Rated current UL (Use Group D)	5 A

Approvals per CSA

Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	41 A
Rated voltage CSA (Use Group D)	600 V
Rated current CSA (Use Group D)	5 A

Connection data

No. of poles	7
Total number of potentials	7
Number of connection types	1
Number of levels	1

Geometrical Data

Pin spacing	7.62 mm / 0.3 inch
Width	56.22 mm / 2.213 inch
Height	33 mm / 1.299 inch
Height from the surface	29 mm / 1.142 inch
Depth	14.8 mm / 0.583 inch
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter (tolerance)	1.7 ^(- ... +0.1) mm

Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCBs
Mismating protection	Yes
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	3

Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Fire load	0.306 MJ
Weight	19.44 g

Environmental Requirements

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

Product Group	3 (Multi Conn. System)
Country of origin	PL
GTIN	4045454002152
Customs Tariff No.	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61984	2169534.04
	CCA DEKRA Certification B.V.	IEC 61984	NL-31143
	CSA DEKRA Certification B.V.	C22.2	1466354

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	20181217-E45172



Compatible products

Coding



Item no.: 831-500	831-500
Coding pin carrier with six coding pins	

Downloads
Documentation

Additional Information

pdf	Download
3.6 MB	

CAD/CAE - Smart Data

CAD data

3D Download 831-3607	URL	Download
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Subject to changes.