SMD PCB terminal block; push-button; 0.75 mm²; Pin spacing 4 mm; 2-pole; Push-in

CAGE CLAMP®; in tape-and-reel packaging; white

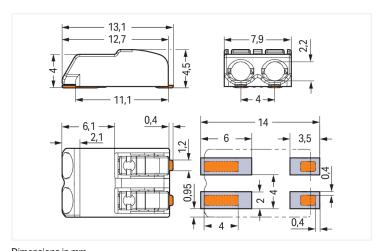
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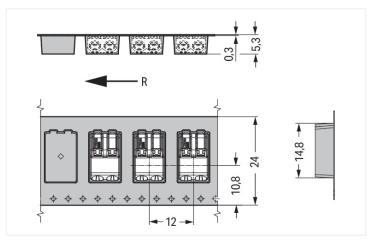








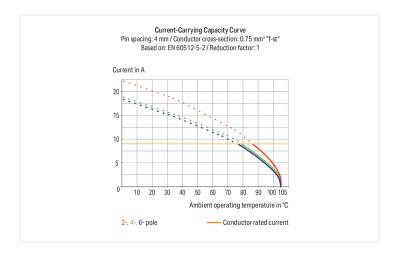




Dimensions in mm L = (pole no. x pin spacing) – 0.1 mm

Dimensions in mm R = feed direction





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PCB terminal block, 2060 Series, with 4 mm pin spacing

This PCB terminal block (item number 2060-452/998-404) is designed for easy and secure connections. It offers the flexibility needed for different mounting types. This PCB terminal block has a rated voltage of 160 V and can handle currents up to 9 A. Ensure that the strip lengths are between 7 mm and 9 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing to use any tools—all thanks to its pluggable design. The item's dimensions are 7.9 x 4.5 x 13.1 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 0.75 mm². Up to two potentials / two poles can be connected to this terminal strip using two clamping points on one level. The clamping spring is made of a Copper alloy, the contacts are made of copper alloy, and the white housing is made of polyphthalamide (PPA GF) for insulation. Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. SMD is used to solder the PCB terminal block. The conductor is designed to be inserted into the board at an angle of 0°...

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; Pattern layout identical to solder pad layout



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	63 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	9 A	9 A	9 A

Ratings	
Approvals per	UL 1977
Rated voltage	320 V
Rated current	9 A

Connection data			
Clamping units	2	Connection 1	
Total number of potentials	2	Connection technology	Push-in CAGE CLAMP®
Number of connection types	1	Actuation type	Push-button
Number of levels 1	Solid conductor	0.2 0.75 mm² / 24 18 AWG	
	Fine-stranded conductor	0.2 0.75 mm² / 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	7 9 mm / 0.28 0.35 inches
		Conductor connection direction to PCB	0°
		Pole number	2

Physical data		
Pin spacing	4 mm / 0.157 inches	
Width	7.9 mm / 0.311 inches	
Height	4.5 mm / 0.177 inches	
Depth	13.1 mm / 0.516 inches	
Reel diameter of tape-and-reel packaging	330 mm	
Tape width	24 mm	

PCB contact	
PCB contact	SMD
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	
Insulation material (main housing)	Polyphthalamide (PPA GF)
Flammability class per UL94	VO
Clamping spring material	Copper alloy
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0 MJ
Weight	0.5 g
MSL per J-STD 020D	1



Envi	ronme	ntal red	uirements

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

Environmental Testing Test specification: DIN EN 50155 (VDE 0115-200):2022-06 Railway applications -Rolling stock -Electronic equipment Test procedure: DIN EN 61373 (VDE 0115-0106):2011-04 Railway applications -Rolling stock equipment -Vibration and shock tests Spectrum/Mounting location Service life test, Category 1, Class A/B Functional test with noise-like oscillati-Test passed according to Section 8 of the standard ons Frequency $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ 0.101g (highest test level used for all Acceleration axes) Test duration per axis 10 min. Test directions X. Y and Z axes Monitoring of contact faults and interrup-Passed tions Voltage drop measurement before and Passed after each axis Simulated service life test through incre-Test passed according to Section 9 of ased levels of noise-like oscillations the standard Frequency $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ Acceleration 0.572g (highest test level used for all Test duration per axis Test directions X, Y and Z axes Extended testing: Monitoring of contact Passed faults and interruptions Extended testing: Voltage drop measure-Passed ment before and after each axis Shock test Test passed according to Section 10 of the standard Shock pulse form Half sine

5g (highest test level used for all axes)

30 ms

Passed

Passed

Passed

3 pos. und 3 neg.

X, Y and Z axes

Commercial data	
Product Group	33 (SMT Terminal)
PU (SPU)	9000 (1000) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143541244
Customs tariff number	85369010000

Acceleration

Shock duration

Test directions

stock equipment

Number of shocks (per axis)

faults and interruptions

Extended testing: Monitoring of contact

Extended testing: Voltage drop measure-

ment before and after each axis

Vibration and shock stress for rolling

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Product Classification	
UNSPSC	39121409
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 8.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

CCACCA CCA CCA . SALUS KEMA



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7724
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7725/M1
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	EN 60947-7-4	71-114208

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004396.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

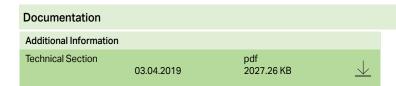
DEKRA Certification B.V.

Environmental Product Compliance 2060-452/998-404

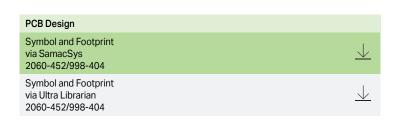


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1.1.3 Tool

1.1.3.1 Operating tool



<u>Item No.: 206-860</u>

Operating tool; for 2060 Series; multico-



<u>Item No.: 2060-189</u>

Operating tool; made of insulating material; for 2060 Series; white

Installation Notes

Conductor termination



Insert solid conductors via push-in termi-

Conductor termination



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



Terminal blocks can be arranged side-byside without loss of poles.

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

Current addresses can be found at:: $\underline{www.wago.com}$