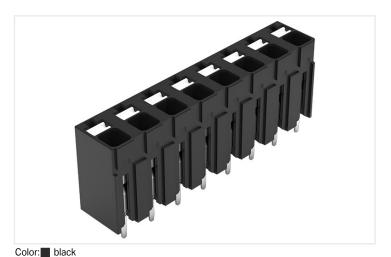
THR PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 5 mm; 8-pole; Push-in CAGE CLAMP<sup>®</sup>; 1,50 mm<sup>2</sup>; black

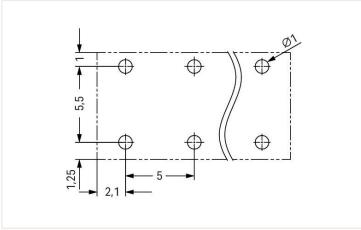


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Dimensions in mm

L = (pole no. - 1) x pin spacing + 4.2 mm





Dimensions in mm

- Ideal for compact device connection, panel feedthrough and tight spaces
- Push-in CAGE CLAMP® termination of solid and ferruled conductors
- SMD and THR variants available
- Delivery in tape-and-reel packaging for full integration into SMT soldering process
- Push-button moves in direction of conductor connection
- Conductor connection and mating direction both parallel and perpendicular to the PCB
- Optionally available with in-line or staggered pins (3.5 and 5 mm pin spacing)

Electrical data	
Ratings per IEC/EN	
Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	17.5 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 C)	300 V
Rated current UL (Use Group C)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

# Data sheet | Item number: 2086-3108 https://www.wago.com/2086-3108



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

Connection data			
Total number of potentials	8	Connection 1	
Number of connection types	1	Connection technology	Push-in CAGE CLAMP®
Number of levels	1	Actuation type	Push-button
		Solid conductor	0.14 1.5 mm² / 28 16 AWG
		Fine-stranded conductor	0.14 1.5 mm² / 26 14 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 0.75 mm <sup>2</sup>
		Fine-stranded conductor; with uninsulated ferrule	0.25 1.5 mm <sup>2</sup>
		Strip length	8 9 mm / 0.31 0.35 inch
		Conductor connection direction to PCB	90°
		Pole number	8

Physical data		
Pin spacing	5 mm / 0.197 inch	
Width	39.2 mm / 1.543 inch	
Depth	7.8 mm / 0.307 inch	
Solder pin length	2.4 mm	
Solder pin dimensions	0.3 x 0.8 mm	
Plated through-hole diameter (THR)	1 <sup>(+0.1)</sup> mm	

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 data can be found here
Color	black
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.117 MJ
Weight	5 g

https://www.wago.com/2086-3108



## **Environmental requirements**

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

## Commercial data PU (SPU) 84 Pieces Country of origin VKOrg Germany СН 4055144090062 Customs tariff number VKOrg Germany 85369010000

## Approvals and certificates

# **Country specific Approvals**





Approval	Standard	Certificate name
CB DEKRA Certification B.V.	IEC 60947-7-4	NL-74022
CSA DEKRA Certification B.V.	C22.2	80060692
KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-119449

# **UL-Approvals**



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc.	UL 1059	E45172

## **Downloads**

# **Environmental Product Compliance**

## Compliance Search

Environmental Product Compliance 2086-3108



# Documentation

Additional Information			
Technical Section	03.04.2019	pdf 1949.09 KB	$\underline{\downarrow}$
		pdf 535.32 KB	$\underline{\downarrow}$

## CAD/CAE-Data

CAD data

2D/3D Models 2086-3108

CAE data

https://www.wago.com/2086-3108



# 1 Compatible products

## 1.1 Optional accessories

## 1.1.1 Ferrule

## 1.1.1.1 Ferrule



Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

## Item no.: 216-151

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

#### Item no.: 216-131

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored

#### Item no.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

## Item no.: 216-132

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

#### Item no.: 216-152

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

## Item no.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

#### Item no.: 216-201

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white

#### Item no.: 216-141

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 1/08.92

#### Item no : 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

#### Item no : 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

#### Item no.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

### Item no.: 216-202

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

## Item no.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

#### Item no.: 216-102

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-co-lored

## Item no.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

# Item no.: 216-143

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

# Item no.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

## Item no.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

## 1.1.2 Test and measurement

## 1.1.2.1 Testing accessories



# Item no.: 859-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm $^2$ 

## Item no.: 735-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CATO; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm<sup>2</sup>

## 1.1.3 Tool

## 1.1.3.1 Operating tool



## Item no.: 210-719

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

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# Installation notes

## **Conductor termination**



Inserting solid conductor via push-in termination.

## **Conductor termination**



Inserting and removing fine-stranded conductors via push-buttons.

## Conductor removal



Removing a conductor via push-button.

# Testing



Testing via 1 mm Ø test pin.
Touch contact with current bar

## Marking



Pole marking via direct marking perpendicular to conductor entry.

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

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

Page 5/5 Version 13.04.2022