

Data Sheet | Item Number: 739-203

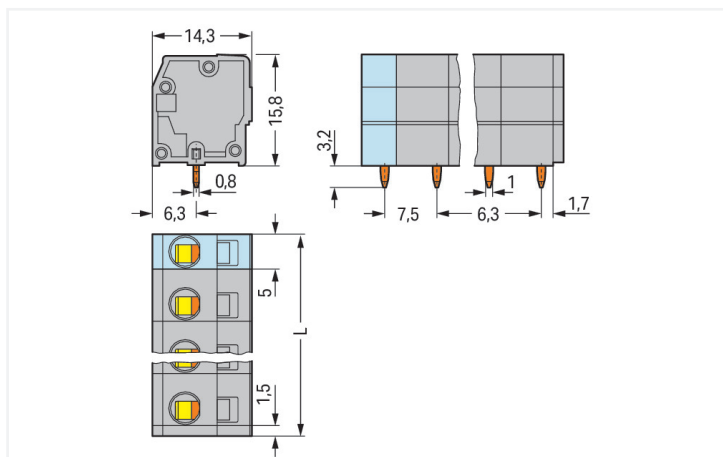
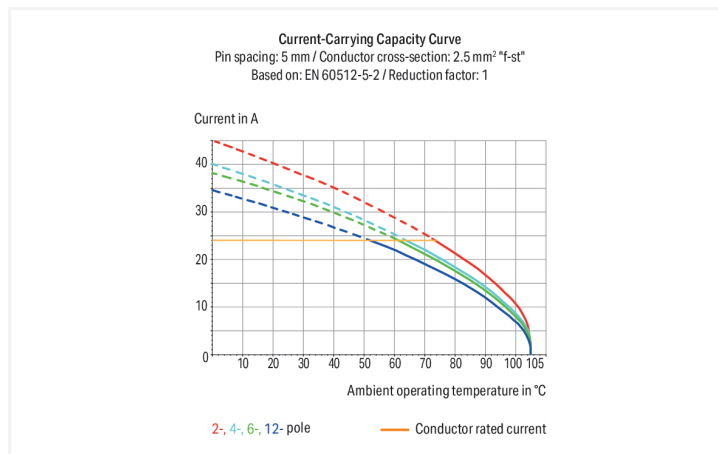
PCB terminal block; 2.5 mm²; Pin spacing 7.5 mm; 3-pole; CAGE CLAMP®; gray

<https://www.wago.com/739-203>



Color: ■ gray

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5 \text{ mm} + 1.5 \text{ mm}$

PCB terminal block, 739 Series, CAGE CLAMP®

This PCB terminal block (item number 739-203) is designed for easy and secure connections. It is a universal connector that can be used almost anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors can only be connected to this PCB terminal block if their strip length is between 8 and 9 mm. Featuring one conductor terminal along with CAGE CLAMP®, this connector delivers reliable performance. Our CAGE CLAMP® connection offers a proven and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are (21.5 x 19 x 14.3) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm².

Tin is used for coating the contact surfaces. An operating tool is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor at a 90° angle..



Notes	
Variants:	Other pole numbers Other colors Mixed-color PCB connector strips Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ .

Electrical data

Ratings per		IEC/EN 60664-1		Approvals per		UL 1059	
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	-	300 V
Nominal voltage	500 V	630 V	1000 V	Rated current	20 A	-	10 A
Rated impulse withstand voltage	6 kV	6 kV	6 kV				
Rated current	24 A	24 A	24 A				

Approvals per		CSA	
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	8 A	-	8 A

Connection Data

Clamping units	3	Connection 1 Connection technologyCAGE CLAMP® Actuation typeOperating tool Solid conductor0.08 ... 2.5 mm² / 28 ... 12 AWG Fine-stranded conductor0.08 ... 2.5 mm² / 28 ... 12 AWG Fine-stranded conductor; with insulated fer-rule0.25 ... 1.5 mm² Fine-stranded conductor; with uninsulated ferrule0.25 ... 2.5 mm² Note (conductor cross-section)12 AWG: THHN, THWN Strip length8 ... 9 mm / 0.31 ... 0.35 inches Conductor connection direction to PCB90 ° Pole number3
Total number of potentials	3	
Number of connection types	1	
Number of levels	1	

Physical data

Pin spacing	7.5 mm / 0.295 inches
Width	21.5 mm / 0.846 inches
Height	19 mm / 0.748 inches
Height from the surface	15.8 mm / 0.622 inches
Depth	14.3 mm / 0.563 inches
Solder pin length	3.2 mm
Solder pin dimensions	0.8 x 1.2 mm
Drilled hole diameter	1.6 (+0.1) mm



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

Material data		
Note (material data)		Information on material specifications can be found here
Color		gray
Material group		I
Insulation material (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Clamping spring material		Chrome-nickel spring steel (CrNi)
Contact material		Electrolytic copper (E _{Cu})
Contact Plating		Tin
Fire load		0.07 MJ
Weight		4.2 g

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

Commercial data		
Product Group		4 (Printed Circuit Connectors)
PU (SPU)		220 (55) pcs
Packaging type		Box
Country of origin		CH
GTIN		4044918860826
Customs tariff number		85369010000

Product Classification		
UNSPSC		39121409
eCl@ss 10.0		27-44-04-01
eCl@ss 9.0		27-44-04-01
ETIM 9.0		EC002643
ETIM 10.0		EC002643
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals			General approvals		
   			KEMA/KEUR	EN 60947-7-4	71-110334
			DEKRA Certification B.V.		
			KEMA/KEUR	EN 60947	71-125886
			DEKRA Certification B.V.		
Approval	Standard	Certificate Name			
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7961			
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL 7780			
CSA DEKRA Certification B.V.	C22.2 No. 158	1711139			



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 739-203

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

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CAD/CAE-Data

CAD data

2D/3D Models 739-203

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CAE data

EPLAN Data Portal 739-203

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ZUKEN Portal 739-203

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PCB Design

Symbol and Footprint via SamacSys 739-203

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Symbol and Footprint via Ultra Librarian 739-203

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



Item No.: 216-301

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



Item No.: 216-302

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



Item No.: 216-201

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



Item No.: 216-101

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



Item No.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored



Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-104

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

1.1.2 Marking

1.1.2.1 Marking strip



Item No.: 210-332/750-020
Marking strips; as a DIN A4 sheet; MARKED;
1-20 (80x); Height of marker strip: 3 mm;
Strip length 182 mm; Horizontal marking;
Self-adhesive; white

1.1.3 Tool

1.1.3.1 Operating tool



Item No.: 210-658
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; angled; short; multi-
coloured



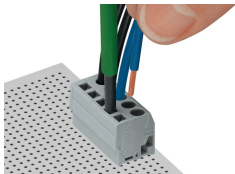
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured



Item No.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; short; multicoloured

Installation Notes

Conductor termination



Inserting a conductor parallel to screwdriver
actuation – 739 Series.