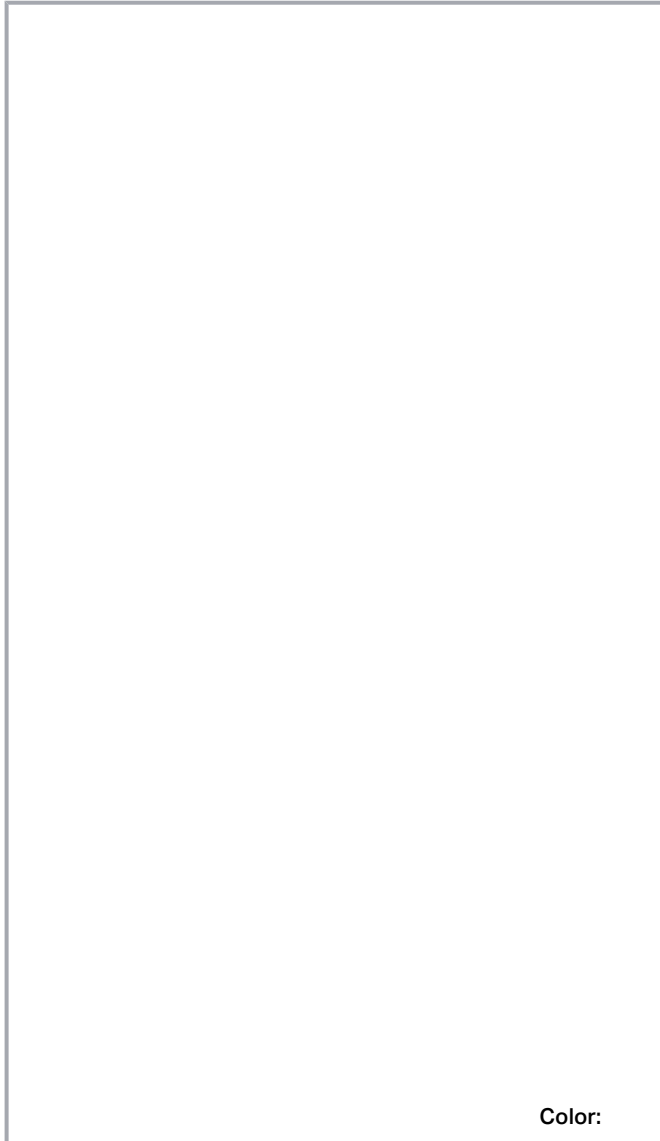


## Data sheet | Item number: 742-111

Stackable PCB terminal block; with fuse mounting; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 1-pole; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

[www.wago.com/742-111](http://www.wago.com/742-111)



### Item description

- Modular PCB terminal blocks with screwdriver-actuated CAGE CLAMP® connection
- Quick, easy replacement of mini-automotive blade-style fuses in the event of a fault

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



- Test sockets on both sides of fuse for 2.0 mm or 2.3 mm Ø test plugs
- Observe protection against direct contact for voltages of 42 V and higher!
- 2- and 3-conductor PCB terminal blocks for distributing potentials independently of PCB

## Data

### Electrical data

#### Ratings per IEC/EN

Ratings	Individual arrangement
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	15 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

#### Ratings per IEC/EN 2

Ratings	Block arrangement
Ratings per 2	IEC/EN 60664-1
Rated voltage (III/3) 2	320 V
Rated surge voltage (III/3) 2	4 kV
Rated voltage (III/2) 2	320 V
Rated surge voltage (III/2) 2	4 kV
Rated voltage (II/2) 2	630 V
Rated surge voltage (II/2) 2	4 kV
Rated current 2	10 A

#### 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 D)	300 V
Rated current UL (Use Group D)	10 A

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



## Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	16 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

## General information

Fuse receptacle	pluggable
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## Connection data

Connection points	1
Total number of potentials	1
Number of connection types	1
Number of levels	1

## Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm <sup>2</sup>
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Conductor connection direction to PCB	60 °
Pole number	1

## Physical data

Pin spacing	5 mm / 0.197 inches
Width	7 mm / 0.276 inches
Height	27.2 mm / 1.071 inches
Height from the surface	23.2 mm / 0.913 inches
Depth	34.7 mm / 1.366 inches
Solder pin length	4 mm
Solder pin dimensions	1 x 0.8 mm

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



Drilled hole diameter with tolerance	1.4 <sup>(+0.1)</sup> mm
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## Mechanical Data

Type of fuse	Mini flat plug-in fuse 10.9 x 3.6 x 16.3 mm
--------------	---

## Plug-in connection

Plugging without loss of pin spacing	No
--------------------------------------	----

## PCB contact

PCB contact	THT
Solder pin arrangement	within the terminal block (in-line)
Number of solder pins per potential	2

## Material Data

Note (material data)	Information on material specifications can be found here
----------------------	--

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.064 MJ
Weight	3.7 g

## Environmental requirements

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

## Commercial data

Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 8.0	EC002643

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



ETIM 7.0	EC002643
PU (SPU)	300 pcs
Packaging type	box
Country of origin	CH
GTIN	4045454232139
Customs tariff number	85369095000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	2160584.22
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL-7107
	<b>CSA</b> DEKRA Certification B.V.	C22.2 No. 158	1711139
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1869876-PDA
	<b>BV</b> Bureau Veritas S.A.	IEC 60998	11915/D0 BV
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

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

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## Required accessories

### End plate

End plate		
<b>Item no.: 742-100</b>		<a href="http://www.wago.com/742-100">www.wago.com/742-100</a>
End plate; snap-fit type; 1.5 mm thick; gray		

## Optional accessories

### Tool

Operating tool		
<b>Item no.: 210-657</b>		<a href="http://www.wago.com/210-657">www.wago.com/210-657</a>
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured		
<b>Item no.: 210-720</b>		<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured		

### Testing and measuring

Testing accessories		
<b>Item no.: 210-136</b>		<a href="http://www.wago.com/210-136">www.wago.com/210-136</a>
Test plug; 2 mm Ø; with 500 mm cable; red		

### Ferrule

Ferrule		
<b>Item no.: 216-123</b>		<a href="http://www.wago.com/216-123">www.wago.com/216-123</a>
Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored		
<b>Item no.: 216-122</b>		<a href="http://www.wago.com/216-122">www.wago.com/216-122</a>
Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored		
<b>Item no.: 216-124</b>		<a href="http://www.wago.com/216-124">www.wago.com/216-124</a>
Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated		
<b>Item no.: 216-142</b>		<a href="http://www.wago.com/216-142">www.wago.com/216-142</a>
Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92		
<b>Item no.: 216-132</b>		<a href="http://www.wago.com/216-132">www.wago.com/216-132</a>
Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated		
<b>Item no.: 216-121</b>		<a href="http://www.wago.com/216-121">www.wago.com/216-121</a>
Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored		
<b>Item no.: 216-143</b>		<a href="http://www.wago.com/216-143">www.wago.com/216-143</a>
Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92		
<b>Item no.: 216-131</b>		<a href="http://www.wago.com/216-131">www.wago.com/216-131</a>
Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored		

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



<b>Item no.: 216-141</b> 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	<a href="http://www.wago.com/216-141">www.wago.com/216-141</a>
<b>Item no.: 216-152</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-152">www.wago.com/216-152</a>
<b>Item no.: 216-151</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-151">www.wago.com/216-151</a>
<b>Item no.: 216-144</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored	<a href="http://www.wago.com/216-144">www.wago.com/216-144</a>
<b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
<b>Item no.: 216-241</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
<b>Item no.: 216-242</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
<b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>
<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
<b>Item no.: 216-224</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<a href="http://www.wago.com/216-224">www.wago.com/216-224</a>
<b>Item no.: 216-243</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
<b>Item no.: 216-244</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	<a href="http://www.wago.com/216-244">www.wago.com/216-244</a>
<b>Item no.: 216-263</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="http://www.wago.com/216-263">www.wago.com/216-263</a>
<b>Item no.: 216-264</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	<a href="http://www.wago.com/216-264">www.wago.com/216-264</a>
<b>Item no.: 216-262</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	<a href="http://www.wago.com/216-262">www.wago.com/216-262</a>
<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>

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

**Downloads****Documentation****Additional Information**

2019 年4月3日

pdf  
2.0 MB[Download](#)**CAD/CAE-Data****CAD data**

2D/3D Models 742-111

[URL](#)[Download](#)**CAE data**

EPLAN Data Portal 742-111

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Symbol and Footprint 742-111

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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
- 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

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

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- Zuken CadStar 3 and 4
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PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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## Environmental Product Compliance

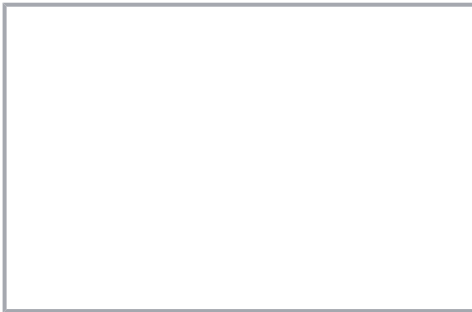
### Compliance Search

Environmental Product Compliance 742-111	URL	Download
Stackable PCB terminal block; with fuse mounting; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 1-pole; CAGE CLAMP®; 2,50 mm <sup>2</sup> ; gray		

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## Installation Notes

### Testing



Testing – fuse terminal block



Inserting a fuse.

Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.

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



Testing – fuse terminal block

Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.



Testing – fuse terminal block

Testing all types of terminal blocks via 2 mm or 2.3 mm Ø test plugs.

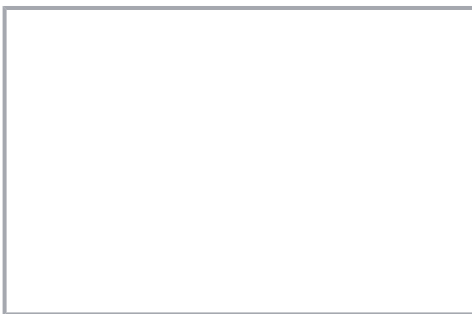
#### Application



Mixed-color terminal strips are available upon request.



Mixed-color knife disconnect/test terminal strips are available upon request.



Custom terminal strips are available upon request.

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