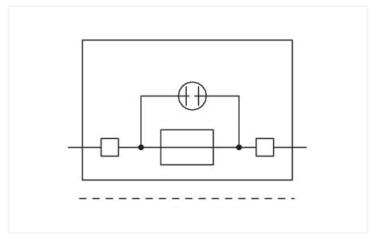
Fuse plug; with pull-tab; for miniature metric fuses  $5 \times 20$  mm and  $5 \times 25$  mm; with blown fuse indication by neon lamp; 230 V; 6 mm wide; gray



https://www.wago.com/281-512/281-417





Color: ■ gray

Similar to illustration

281-512/281-417

Fuse plug, 281 Series, gray

This fuse plug (item number 281-512/281-417) simplifies electrical installations. The gray housing is made of polyamide (PA66) for insulation.

Electrical data		
Ratings per IEC/EN		
Nominal voltage (III/3)	250 V	
Rated current	6.3 A	
Operation status indicator	None	

Ratings per IEC/EN – Notes	
Ratings (note)	Electrical ratings are given by the fuse and blown fuse indication.
Rated current (note)	Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Power Loss	
Power loss (max.) P <sub>I (max.)</sub> (note)	When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

General information	
Voltage type 1	AC/DC
Fuse type	Cylindrical fuse; 5 x 20 mm and 5 x 25 mm

Physical	data
Width	

6 mm / 0.236 inches

https://www.wago.com/281-512/281-417

Approvals / Certificates



# Mechanical data Marking level Center marking

Material data	
Note (material data)	Information on material and ifficultions and by found have
	Information on material specifications can be found here
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.082 MJ
Weight	6.5 g

# Environmental requirements Continuous operating temperature -60 ... +105 °C

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-49
eCl@ss 9.0	27-14-11-49
ETIM 9.0	EC002018
ETIM 8.0	EC002018
PU (SPU)	50 pcs
Packaging type	Вох
Country of origin	CN
GTIN	4050821276241
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

General approvals		Declarations of conformity and manufacturer's declarations			
KEMA CCA			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Conformity	-	-
CCA DEKRA Certification B.V.	EN 60947	2160584.53	WAGO GmbH & Co. KG  UK-Declaration of Conformity  WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 60947	NTR NL-7135			

# Data Sheet | Item Number: 281-512/281-417 https://www.wago.com/281-512/281-417



## Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	20-HG1941090-PDA
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads		
<b>Environmental Product Compliance</b>		
Compliance Search		
Environmental Product Compliance 281-512/281-417	$\downarrow$	

Documentation						
Additional Information	al Information		Bid Text			
Technical Section	pdf 2246.92 KB	<u>↓</u>	281-512/281-417	19.02.2019	xml 3.00 KB	<u>↓</u>
			281-512/281-417	14.03.2017	doc 24.00 KB	<u>↓</u>

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 281-512/281-417	WSCAD Universe 281-512/281-417
	ZUKEN Portal 281-512/281-417

https://www.wago.com/281-512/281-417



#### 1 Compatible Products

#### 1.1 Optional Accessories

#### 1.1.1 Jumper

#### 1.1.1.1 Jumper



#### Item No.: 281-503

Short circuit jumper; for fuse holder; silvercolored

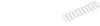
#### 1.1.2 Marking

#### 1.1.2.1 Marker



#### Item No.: 794-4615

WMB marking card; as card; MARKED; F1, ..., F10 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



#### Item No.: 794-4619

WMB marking card; as card; MARKED; F41, ..., F50 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



#### Item No.: 793-4501/000-023

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green



#### Item No.: 793-4501

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white



#### Item No.: 2009-114/000-023

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; green



#### Item No.: 2009-114

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white

Item No.: 794-4616 WMB marking card; as card; MARKED; F11, ..., F20 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



#### Item No.: 793-4501/000-006

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue



#### Item No.: 793-4501/000-012

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; orange



#### Item No.: 793-4501/000-002

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow



### Item No.: 2009-114/000-012

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; orange



#### Item No.: 2009-114/000-002

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow



#### Item No.: 794-4617

WMB marking card; as card; MARKED; F21, ..., F30 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



#### Item No.: 793-4501/000-014

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; brown



#### Item No.: 793-4501/000-005

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; red



#### Item No.: 2009-114/000-006

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; blue



#### Item No.: 2009-114/000-005

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; red

# Item No.: 794-4618

WMB marking card; as card; MARKED; F31, ..., F40 (10x); stretchable 4 - 4.2 mm; Vertical marking; snap-on type; white



#### Item No.: 793-4501/000-007

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; gray



#### Item No.: 793-4501/000-024

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; violet



#### Item No.: 2009-114/000-007

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray



#### Item No.: 2009-114/000-024

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet

https://www.wago.com/281-512/281-417



#### 1.1.3 Terminal blocks

#### 1.1.3.1 Carrier terminal block



#### Item No.: 280-531

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm²; blue/gray



## Item No.: 280-891

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray



#### Item No.: 280-514

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray



#### Item No.: 280-528

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm²; gray/gray



#### Item No.: 280-532

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm2; blue/gray



#### Item No.: 280-510

Triple-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; green-yellow/blue/



Triple-deck terminal block; with additional jumper position on lower level; for DIN-rail

# Item No.: 280-889

35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray/gray

# 1.1.3.2 Carrier terminal block for modules and plugs



2-conductor carrier terminal block; for

GE CLAMP®; 4,00 mm²; blue

DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CA-

Item No.: 281-916 2-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CA-GE CLAMP®; 4,00 mm²; gray

Item No.: 280-514



3-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CA-GE CLAMP®; 4,00 mm²; gray



#### Item No.: 281-656

4-conductor carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; CA-GE CLAMP®; 4,00 mm²; gray

#### 1.1.3.3 Double-deck terminal block







### Item No.: 280-528

Item No.: 281-610

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray



#### Item No.: 280-532

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm²; blue/gray

# Item No.: 280-531

Item No.: 281-917

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; blue/gray

Double-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm²; gray/gray





#### Item No.: 280-891

Double-deck terminal block; with additional jumper position on lower level; for DINrail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; gray/gray

#### 1.1.3.4 Triple-deck terminal block



#### Item No.: 280-510

Triple-deck terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm2; CAGE CLAMP®; 2,50 mm²; green-yellow/blue/ gray



#### Item No.: 280-889

Triple-deck terminal block; with additional jumper position on lower level; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; CAGE CLAMP®; 2,50 mm²; gray/gray/gray

https://www.wago.com/281-512/281-417



#### **Installation Notes**



Length of carrier terminal blocks with a fuse plug:

73.5 mm / 2.89 inch für 281-610

#### Testing



Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 6 mm
- May be used as a disconnect plug in combination with a shorting link



Open side of terminal block le

When a corresponding neutral circuit is adjacent to the fuse plug, a 5 mm wide space-saving terminal block may be used as a 6 mm fuse plug may overlap the terminal block (see diagram).

For example, 5 mm (0.197 inch) wide carri-

For example, 5 mm (0.197 inch) wide carrier terminal blocks can be used with an end plate.

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

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

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