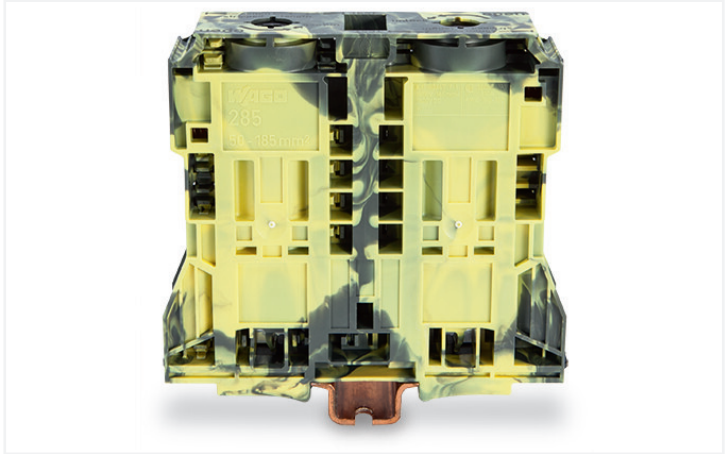
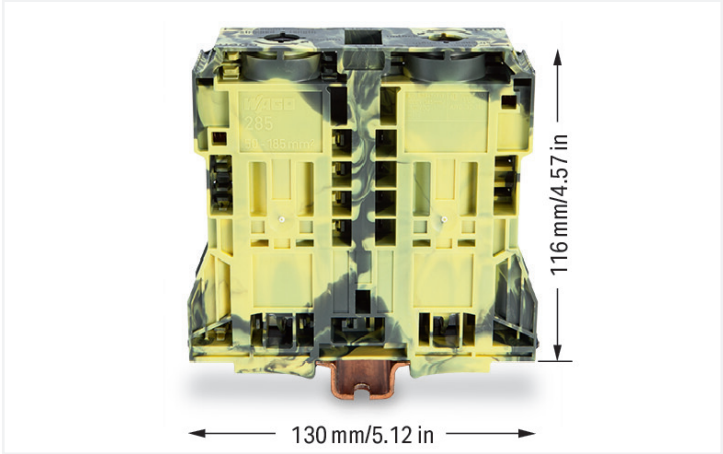


Data Sheet | Item Number: 285-1181

2-conductor through terminal block; 185 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 185,00 mm²; dark gray-yellow

<https://www.wago.com/285-1181>



Color: ■ dark gray/yellow

Electrical data

Ratings per	IEC/EN 60947-7-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	1000 V	-	-
Rated surge voltage	12 kV	-	-
Rated current	353 A	-	-

Ratings per IEC/EN 2	
Rated voltage (III/3) 2	1500 V
Rated surge voltage (III/3) 2	12 kV

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	310 A	310 A	-

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	1000 V	1000 V	-
Rated current	310 A	-	-

Power Loss	
Power loss, per pole (potential)	11.2148 W
Rated current I _N for specified power loss	353 A
Resistance value for specified, current-dependent power loss	9e-005 Ω

General information	
Voltage type 1	AC/DC
Voltage type 2	DC

Connection data

Connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	2

Connection 1	
Connection technology	POWER CAGE CLAMP
Actuation type	T-wrench; 8 mm
Connectable conductor materials	Copper
Nominal cross-section	185 mm² / 350 kcmil
Solid conductor	50 ... 185 mm² / 1/0 AWG ... 350 kcmil
Stranded conductor	50 ... 185 mm² / 1/0 AWG ... 350 kcmil
Fine-stranded conductor	50 ... 185 mm² / 1/0 AWG ... 350 kcmil
Fine-stranded conductor; with insulated ferrule	50 ... 150 mm² / 1/0 AWG ... 300 kcmil
Fine-stranded conductor; with uninsulated ferrule	50 ... 185 mm² / 1/0 AWG ... 350 kcmil
Strip length	45 ... 47 mm / 1.77 ... 1.85 inches
Wiring direction	Side-entry wiring



Physical data	
Width	32 mm / 1.26 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	116 mm / 4.567 inches

Mechanical data	
Mounting type	DIN-rail 35 x 15
Mounting (note)	only suitable for DIN 35 x 15 rail
Marking level	Side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	dark gray/yellow
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	5.812 MJ
Weight	543.3 g

Environmental requirements	
Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data	
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	5 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143418508
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals		General approvals	
		UL Underwriters Laboratories Inc.	UL 1059 E45172

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7965
CSA DEKRA Certification B.V.	C22.2	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-126013



Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 285-1181



Documentation

Bid Text
285-1181
19.02.2019
xml 3.89 KB
285-1181
04.01.2018
doc 25.50 KB



CAD/CAE-Data

CAD data
2D/3D Models 285-1181



CAE data
EPLAN Data Portal 285-1181
ZUKEN Portal 285-1181



1 Compatible Products

1.1 Optional Accessories

1.1.1 Cover

1.1.1.1 Cover



Item No.: 285-1178
Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 185 mm² high-current terminal blocks; yellow



1.1.2 DIN-rail

1.1.2.1 Mounting accessories



Item No.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored



Item No.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored

1.1.3 Installation

1.1.3.1 Mounting accessories



Item No.: 285-1179
Fixing element; for 185 mm² high-current terminal blocks; orange



Item No.: 249-197
Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.4 Jumper

1.1.4.1 Jumper



Item No.: 285-1171
Jumper; insulated; gray

1.1.5 Marking

1.1.5.1 Marker



Item No.: 793-5501/000-006
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-014
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



Item No.: 793-5501/000-007
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 793-5501/000-023
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 793-5501/000-017
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



Item No.: 793-5501/000-012
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 793-5501/000-005
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 793-5501/000-024
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 793-5501/000-002
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 793-501/000-007
WMB marking card; as card; not stretchable; plain; snap-on type; gray



Item No.: 793-501/000-023
WMB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 793-501/000-017
WMB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 793-501/000-012
WMB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white











Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow




Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

1.1.5.1 Marker

 <div><div>Item No.: 2009-115/000-007</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray</div></div>	 <div><div>Item No.: 2009-115/000-023</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green</div></div>	 <div><div>Item No.: 2009-115/000-017</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green</div></div>	 <div><div>Item No.: 2009-115/000-012</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange</div></div>
 <div><div>Item No.: 2009-115/000-005</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red</div></div>	 <div><div>Item No.: 2009-115/000-024</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet</div></div>	 <div><div>Item No.: 2009-115</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</div></div>	 <div><div>Item No.: 2009-115/000-002</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</div></div>

1.1.5.2 Marking strip

 <div><div>Item No.: 2009-110</div><div>Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white</div></div>
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1.1.6 Power tap

1.1.6.1 Power tap

 <div><div>Item No.: 285-1175</div><div>Power tap; for 185 mm² high-current terminal blocks; gray</div></div>



1.1.7 Protective warning marker

1.1.7.1 Cover

 <div><div>Item No.: 285-1177</div><div>Protective warning marker; with high-voltage symbol, black; yellow</div></div>	 <div><div>Item No.: 285-1176</div><div>Protective warning marker; yellow</div></div>
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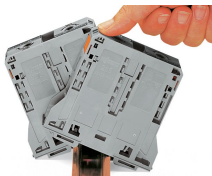
1.1.8 Tool

1.1.8.1 Operating tool

 <div><div>Item No.: 285-172</div><div>Allen wrench; with a partially insulated shaft; green</div></div>	 <div><div>Item No.: 285-173</div><div>Allen wrench; with a partially insulated shaft; with anti-rotation protection; green</div></div>
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Installation Notes

Installation



Snapping a terminal block onto DIN-rail (to the left or to the right).



Removing a terminal block from the assembly (to the left or to the right).

Conductor termination

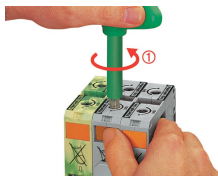


For the optimal clamping force:

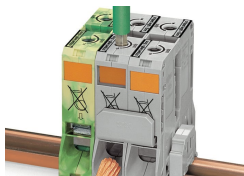
- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



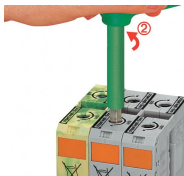
Always observe the on-unit printed strip length guide!



Conductor termination – step 1:
Rotate the T-wrench counter-clockwise to the stop . Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.

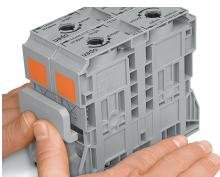


Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.

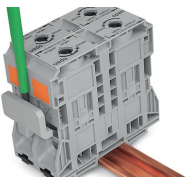


Conductor termination – step 3:
A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

Commoning



Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.

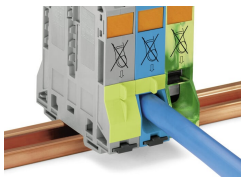


Removing jumper via operating tool.

Cover

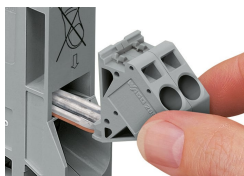


Protective warning marker may indicate: Notice: Power is still on even after switching off the main switch!



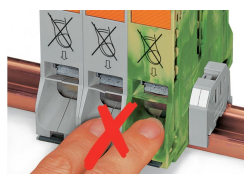
Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.

Power tap



Easily and consistently tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

Security

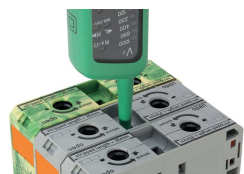


Risk of Injury!
Do not insert fingers in the conductor entry!

Testing

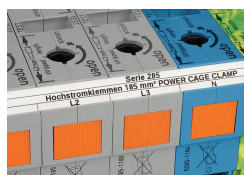


Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).



Testing
Voltage measurements can be performed, e.g., using a 2-pole voltage tester (Item No. 206-707).

Marking



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.