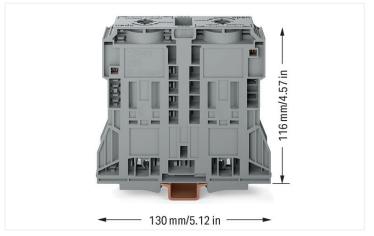
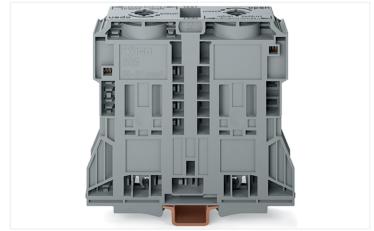
2-conductor through terminal block; 185 mm²; lateral marker slots; only for DIN 35 x

15 rail; POWER CAGE CLAMP; 185,00 mm²; gray

https://www.wago.com/285-1185







Color: ■ gray

Through terminal block, 285 Series, power cage clamp

Connect conductors quickly and securely with this through terminal block (item number 285-1185). Ensure that the strip lengths are between 45 mm and 47 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with POWER CAGE CLAMP, this product is highly versatile. The POWER CAGE CLAMP is a powerful, maintenance-free, and universal way to connect large conductor cross-sections. It's also suitable for all conductor types. The clamping point can be locked open and you do not need to use a torque wrench or prepare the conductor in any way, e. g., by crimping the ferrule. This through terminal block is suitable for conductor cross sections ranging from 50 mm 2 to 185 mm 2 . It has one level. The single potential can connect using the two clamping points The gray housing is made of polyamide (PA66) for insulation. These high-current terminal blocks are mounted using DIN-rails 35 x 15..

Approvals per

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)	1500 V
Rated impulse withstand voltage (III/3)	12 kV

Approvals per	UL 1059		
Use group	В	С	D
Rated voltage	600 V	600 V	-
Rated current	310 A	310 A	-

Use group	В	С	D
Rated voltage	1000 V	1000 V	-
Rated current	310 A	-	-
General information			

CSA 22.2 No 158

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



onnection data				
Clamping units	2		Connection 1	
Total number of potentials	1		Connection technology	POWER CAGE CLAMP
Number of levels	1		Actuation type	T-wrench; 8 mm
Number of jumper slots	2		Connectable conductor materials	Copper
			Nominal cross-section	185 mm² / 350 kcmil
			Solid conductor	50 185 mm² / 1/0 AWG 350 kcmi
			Stranded conductor	50 185 mm² / 1/0 AWG 350 kcmi
			Fine-stranded conductor	50 185 mm² / 1/0 AWG 350 kcmi
			Fine-stranded conductor; with insulated ferrule	50 150 mm² / 1/0 AWG 300 kcmi
			Fine-stranded conductor; with uninsulated ferrule	50 185 mm² / 1/0 AWG 350 kcmi
			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)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	5.812 MJ
Weight	534.9 g

Environmental requirements			
Processing temperature	-35 +85 °C	Environmental Testing (Environmental Testing	rironmental Conditions)
Continuous operating temperature -60 +105 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06	
	Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-0	
		Spectrum/Installation location	Service life test, Category 1, Class A/B
	Function test with noise-like vibra	ation Test passed according to Section 8 of the standard	
	Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$	



Environmental Testing (Environmental Conditions)

Acceleration 0.101g (highest test level used for all

axes)

0.572g (highest test level used for all

axes)

5g (highest test level used for all axes)

10 min. Test duration per axis

5 h

X, Y and Z axes Test directions

X, Y and Z axes X, Y and Z axes

Monitoring for contact faults/interrupti-

Passed

Voltage drop measurement before and

after each axis

Passed

Simulated service life test through increased levels of noise-like vibration

Test passed according to Section 9 of the standard

Extended test scope: Monitoring for contact faults/interruptions

Passed Passed

Extended test scope: Voltage drop measurement before and after each axis

Passed Passed

Shock test

Test passed according to Section 10 of

the standard

Shock form

Half sine

Shock duration Number of shocks per axis 30 ms 3 pos. und 3 neg.

Vibration and shock stress for rolling

stock equipment

Passed

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	5 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4055143067065
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7965
CSA DEKRA Certification B.V.	C22.2 No. 158	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-126013
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004420.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

https://www.wago.com/285-1185



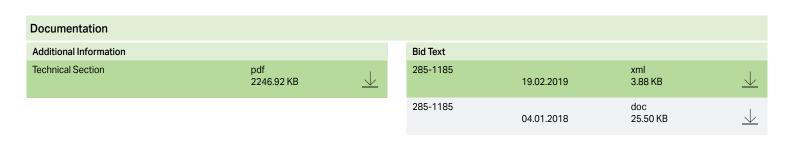
Approvals for marine applications

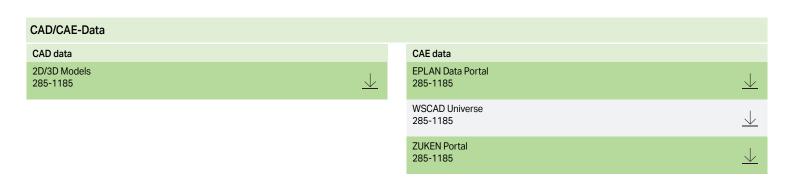




Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads **Environmental Product Compliance** Compliance Search **Environmental Product** Compliance 285-1185





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 Current and voltage tap

1.1.2.1 Current and voltage tap



Item No.: 855-1851/350-000

Current and voltage tap up to 185 mm²; Primary rated current: 350 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

1.1.3 DIN-rail

1.1.3.1 Mounting accessories



Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.1.4 Installation

1.1.4.1 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 DINrail 35 x 15 and 35 x 7.5; gray

1.1.5 Jumper

1.1.5.1 Jumper



Item No.: 285-1171

Jumper; insulated; gray

1.1.6 Marking

1.1.6.1 Marker



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -



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



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

Item No.: 793-5501/000-006

5.2 mm; plain; snap-on type; blue

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.: 793-5501/000-007

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

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W/AGO

1.1.6.1 Marker





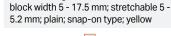
Item No.: 793-5501/000-002





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





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



ble; plain; snap-on type; light green

WMB marking card; as card; for terminal

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.: 793-501/000-017

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

WMB marking card; as card; not stretcha-



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



Item No.: 2009-115/000-007

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

4

Item No.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-115/000-005 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-115/000-024

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.1.6.2 Marking strip



Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.7 Power tap

1.1.7.1 Power tap



Item No.: 285-1175

Power tap; for 185 mm² high-current terminal blocks; gray

1.1.8 Protective warning marker

1.1.8.1 Cover





Item No.: 285-1177

Protective warning marker; with high-voltage symbol, black; yellow

Item No.: 285-1176

Protective warning marker; yellow



1.1.9 Tool

1.1.9.1 Operating tool



Item No.: 285-172

Allen wrench; with a partially insulated



Item No.: 285-173

Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

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 relearotates clockwise, securely clamping the

ses the tab. When unlocked, the T-wrench 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.

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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.

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

Current addresses can be found at:: www.wago.com

Page 8/8 Version 04.03.2025