

Data Sheet | Item Number: 285-159

Three phase set; with 50 mm² high-current tbs; only for DIN 35 x 15 rail; copper; 50 mm²; POWER CAGE CLAMP; 50,00 mm²; gray/blue/green-yellow

<https://www.wago.com/285-159>



Color:  gray/blue/green-yellow

High-current terminal block, 285 Series, t-wrench und 8 mm

Our three-phase set (item number 285-159) is designed for seamless electrical installations. Ensure that the strip lengths are 32 mm when connecting conductors to this three-phase set. This product features conductor terminals and utilizes POWER CAGE CLAMP. The POWER CAGE CLAMP is a reliable, 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 three-phase set is suitable for conductor cross sections ranging from 10 mm² to 50 mm².

This item includes:



Item No.: [285-150](#)

3

2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; gray



Item No.: [285-154](#)

1

2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; blue



Item No.: [285-157](#)

1

2-conductor ground terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP; 50,00 mm²; green-yellow

Electrical data

Ratings per	IEC/EN 60947-7-1			Approvals per	UL 1059		
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	600 V	600 V	-
Nominal voltage	1000 V	-	-	Rated current	150 A	150 A	-
Rated impulse withstand voltage	8 kV	-	-				
Rated current	150 A	-	-				

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	600 V	600 V	-
Rated current	150 A	-	-

General information	
Wiring direction	Side-entry wiring

Connection Data

Clamping units	10
Total number of potentials	5
Number of levels	1

Connection 1

Connection technology	POWER CAGE CLAMP
Actuation type	T-wrench; 8 mm
Connectable conductor materials	Copper
Nominal cross-section	50 mm ²
Solid conductor	10 ... 50 mm ² / 8 ... 1/0 AWG
Stranded conductor	10 ... 50 mm ² / 8 ... 1/0 AWG
Fine-stranded conductor	10 ... 70 mm ² / 8 ... 2/0 AWG
Fine-stranded conductor; with insulated ferrule	10 ... 50 mm ² / 8 ... 1/0 AWG
Fine-stranded conductor; with uninsulated ferrule	10 ... 50 mm ² / 8 ... 1/0 AWG
Strip length	32 mm / 1.26 inches
Wiring direction	Side-entry wiring

Physical data

Width	100 mm / 3.937 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	87 mm / 3.425 inches

Mechanical data

Design	horizontal type
Mounting type	DIN-35 x 15 rail
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	gray/blue/green-yellow
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	10.272 MJ
Halogen-free	Yes
Weight	812.4 g

Environmental requirements

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

Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454584269
Customs tariff number	85369010000

Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 9.0	EC001284
ETIM 10.0	EC001284
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA CSA Group	C22.2	1151144
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562

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	24-0152298-PDA

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 285-159



Documentation

Bid Text

285-159	19.02.2019	xml 3.29 KB	
285-159	04.01.2018	doc 24.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models 285-159



CAE data

EPLAN Data Portal 285-159



WSCAD Universe 285-159



ZUKEN Portal 285-159



1 Compatible Products

1.1 Optional Accessories

1.1.1 Cover

1.1.1.1 Cover



Item No.: 285-441

Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 50 mm² high-current tbs; yellow

1.1.2 Current and voltage tap

1.1.2.1 Current and voltage tap



Item No.: 855-501/150-000

Current and voltage tap up to 50 mm²; Primary rated current: 150 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

1.1.4 Ferrule

1.1.4.1 Ferrule



Item No.: 216-3427

Ferrule; Sleeve for 25 mm² / AWG 4; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-3112

Ferrule; Sleeve for 35 mm² / AWG 2; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-424

Ferrule; Sleeve for 35 mm² / AWG 2; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored



Item No.: 216-3113

Ferrule; Sleeve for 50 mm² / AWG 1; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92



Item No.: 216-425

Ferrule; Sleeve for 50 mm² / AWG 1; un-insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 1/08.92

1.1.5 Installation

1.1.5.1 Mounting accessories



Item No.: 285-448

Fixing element; for 50 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

1.1.6 Jumper

1.1.6.1 Jumper



Item No.: 285-450

Jumper; insulated; gray

1.1.7 Marking

1.1.7.1 Group marker carrier



Item No.: 249-105

Group marker carrier; gray

1.1.7.2 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.: 793-5501/000-007

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



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



Item No.: 2009-115/000-023

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



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.: 2009-115/000-024

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

1.1.7.3 Marker carrier



Item No.: 285-442

Adaptor; gray

1.1.8 Power tap

1.1.8.1 Power tap



Item No.: 285-447

Power tap; for 50 mm² high-current tbs; Module width 16 mm; gray

1.1.9 Protective warning marker

1.1.9.1 Cover



[Item No.: 285-440](#)

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



[Item No.: 285-449](#)

Protective warning marker; yellow

1.1.10 Tool

1.1.10.1 Operating tool



[Item No.: 285-172](#)

Allen wrench; with a partially insulated shaft; green



[Item No.: 285-173](#)

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