

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

Three-phase set, 285 Series, t-wrench und 8 mm

This three-phase set (item number 285-159) simplifies electrical installations. Ensure that the strip lengths are 30 mm when connecting conductors to this three-phase set. This product features conductor terminals and utilizes POWER CAGE CLAMP. The POWER CAGE CLAMP is perfect for connecting large conductor cross-sections. This universal connector is both reliable and maintenance-free. What's more, you can use it to connect all types of conductors and the clamping point can be locked open, making it easier to use. You do not need to use a torque wrench or prepare the conductor. For example, crimping ferrules is not necessary. This three-phase set is suitable for conductor cross sections ranging from 10 mm² to 50 mm². It has one level. You can connect five potentials using the ten clamping points. The gray/blue/green-yellow housing is made of polyamide (PA66) for insulation. These high-current terminal blocks are mounted using DIN-rails 35 x 15..

This item includes:

		
<a href="#">Item No.: 285-150</a> 3	<a href="#">Item No.: 285-154</a> 1	<a href="#">Item No.: 285-157</a> 1
2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; gray	2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; blue	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 surge 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	-	-		



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 mm²	
Solid conductor	10 ... 50 mm² / 8 ... 1/0 AWG	
Stranded conductor	10 ... 50 mm² / 8 ... 1/0 AWG	
Fine-stranded conductor	10 ... 70 mm² / 8 ... 2/0 AWG	
Fine-stranded conductor; with insulated ferrule	10 ... 50 mm² / 8 ... 1/0 AWG	
Fine-stranded conductor; with uninsulated ferrule	10 ... 50 mm² / 8 ... 1/0 AWG	
Strip length	30 mm / 1.18 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-rail 35 x 15	
Mounting (note)	only suitable for DIN 35 x 15 rail	
Marking level	Side marking	

Material data		
Note (material data)	<a href="#">Information on material specifications can be found here</a>	
Color	gray/blue/green-yellow	
Material group	I	
Insulation material (main housing)	Polyamide (PA66)	
Flammability class per UL94	V0	
Fire load	10.808 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)	
eCl@ss 10.0	27-14-11-06	
eCl@ss 9.0	27-14-11-06	
ETIM 9.0	EC001284	
ETIM 8.0	EC001284	
PU (SPU)	1 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4045454584269	
Customs tariff number	85369010000	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA DEKRA Certification B.V.	C22.2	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562
UL Underwriters Laboratories Inc.	UL 1059	E45172
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 285-159	



Documentation			
Additional Information		Bid Text	
Technical Section	pdf 2246.92 KB	285-159	19.02.2019
	<a href="#">↓</a>	xml 3.29 KB	<a href="#">↓</a>
		285-159	04.01.2018
		doc 24.50 KB	<a href="#">↓</a>

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 285-159	EPLAN Data Portal 285-159
<a href="#">↓</a>	<a href="#">↓</a>
	WSCAD Universe 285-159
	<a href="#">↓</a>
	ZUKEN Portal 285-159
	<a href="#">↓</a>

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.: 216-424**  
Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored



**Item No.: 216-425**  
Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; 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