

Color: ■ dark gray/yellow

Through terminal block, 285 Series, t-wrench und 8 mm

Quick and easy connections are guaranteed with this through terminal block (item number 285-147). Ensure that the strip lengths are 30 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with POWER CAGE CLAMP, this connector is highly versatile. Our POWER CAGE CLAMP connection technology is the perfect choice for connecting large conductor cross-sections. This universal connector is reliable and maintenance-free. Unlike other connections methods, you do not need to crimp the ferrule or use a torque wrench. This makes it nice and easy to use. Depending on the conductor type, this through terminal block is suitable for conductor cross sections ranging from 10 mm² to 50 mm². It has one level. You can connect a single potential using the two clamping points. The dark gray/yellow housing is made of polyamide (PA66) for insulation. These high-current terminal blocks are mounted using panel mountings and fixed in place with a Mounting flange..

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		8 kV	-	-
Rated current		150 A	-	-
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		600 V	600 V	-
Rated current		150 A	150 A	-
Approvals per		CSA 22.2 No 158		
Use group		B	C	D
Rated voltage		600 V	600 V	-
Rated current		150 A	-	-
Power Loss				
Power loss, per pole (potential)		4.725 W		
Rated current I _N for specified power loss		150 A		
Resistance value for specified, current-dependent power loss		0.0001 Ω		

Connection 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	50 mm²
		Solid conductor	10 ... 50 mm² / 8 ... 1/0 AWG
		Stranded conductor	10 ... 70 mm² / 8 ... 2/0 AWG
		Fine-stranded conductor	10 ... 70 mm² / 8 ... 2/0 AWG
		Fine-stranded conductor; with insulated ferrule	10 ... 50 mm² / 8 ... 1/0 AWG



Connection 1	
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		20 mm / 0.787 inches
Height from the surface		94 mm / 3.7 inches
Depth		130 mm / 5.118 inches

Mechanical data		
Mounting type		Mounting flange Panel mounting
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 (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	2.07 MJ
Weight	164.5 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 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	5 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143608336
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-7707
CSA DEKRA Certification B.V.	C22.2,C22.2 No. 158	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562
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	-	-
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 285-147	
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Documentation

Additional Information

Technical Section	pdf 2246.92 KB	
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Bid Text

285-147	19.02.2019	xml 3.31 KB	
285-147	04.01.2018	doc 23.50 KB	

CAD/CAE-Data

CAD data

2D/3D Models 285-147	
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CAE data

EPLAN Data Portal 285-147	
ZUKEN Portal 285-147	



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 Ferrule

1.1.3.1 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

1.1.4 Installation

1.1.4.1 Mounting accessories



Item No.: 285-448
Fixing element; for 50 mm² high-current terminal blocks; orange

1.1.5 Jumper

1.1.5.1 Jumper































Item No.: 285-450
Jumper; insulated; gray




1.1.6 Marking

1.1.6.1 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
 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.: 2009-115/000-005 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 Marker carrier

 Item No.: 285-442 Adaptor; gray
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1.1.7 Power tap

1.1.7.1 Power tap



Item No.: 285-447
Power tap; for 50 mm² high-current tbs;
Module width 16 mm; gray

1.1.8 Protective warning marker

1.1.8.1 Cover



Item No.: 285-440
Protective warning marker; with high-vol-
tage symbol, black; yellow



Item No.: 285-449
Protective warning marker; yellow

1.1.9 Tool

1.1.9.1 Operating tool



Item No.: 285-172
Allen wrench; with a partially insulated
shaft; green



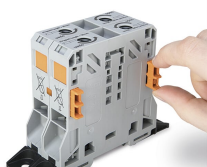
Item No.: 285-173
Allen wrench; with a partially insulated
shaft; with anti-rotation protection; green

Installation Notes

Installation



Align and snap high-current, through ter-
minal blocks together.



Optionally, insert block-to-block connec-
tor (285-448) into housing slot.

