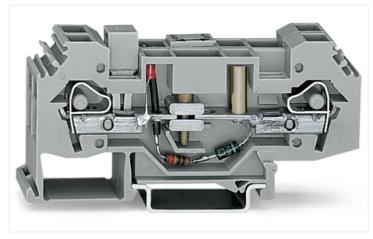
Ground conductor disconnect terminal block; 120 V; 6 mm²; CAGE CLAMP®; 6,00

mm²; gray

https://www.wago.com/282-138





Color: ■ gray

Similar to illustration

Disconnect terminal block, 282 Series, CAGE CLAMP®

This disconnect terminal block (item number 282-138) is designed for quick and simple connections. Ensure that the strip lengths are between 12 mm and 13 mm when connecting conductors to this disconnect terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a safe and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. This disconnect terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 6 mm². It has one level. Two potentials can connect using the four clamping points The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails.

Electrical data			
Ratings per IEC/EN		Power Loss	
Operation status indicator	120 V	Power loss, per pole (potential)	1.3112 W
		Rated current I_N for specified power loss	41 A
		Resistance value for specified, current- dependent power loss	0.00078 Ω

ection data			
ng units	4	Connection 1	
number of potentials	2	Connection technology	CAGE CLAMP®
mber of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	0.2 6 mm² / 24 10 AWG
		Fine-stranded conductor	0.2 6 mm² / 24 10 AWG
		Strip length	12 13 mm / 0.47 0.51 inc
		Wiring direction	Side-entry wiring

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Physical data

 Width
 16 mm / 0.63 inches

 Height
 87.5 mm / 3.445 inches

 Depth from upper-edge of DIN-rail
 38.5 mm / 1.516 inches

Mechanical data

Designhorizontal typeMounting typeDIN-35 railMarking levelSide marking

Material data

Note (material data)

 $\underline{Information\ on\ material\ specifications\ can\ be\ found\ here}$

Color gray
Material group I

Insulation material (main housing) Polyamide (PA66)

Flammability class per UL94 V0
Fire load 0.691 MJ
Weight 44.6 g

Environmental requirements

Processing temperature $-35 \dots +85 \,^{\circ}\text{C}$ Continuous operating temperature $-60 \dots +105 \,^{\circ}\text{C}$

Commercial data

Product Group 1 (Rail Mounted Terminal Blocks) eCl@ss 10.0 27-14-11-26 eCl@ss 9.0 27-14-11-26 ETIM 9.0 EC000902 ETIM 8.0 EC000902 PU (SPU) 12 (1) pcs Packaging type Box Country of origin DE GTIN 4045454448493 Customs tariff number 85365080000

Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	8c958f51-6baa-4dba-be0e-de9f5c9d2c81
SCIP notification number (Belgium)	c180cb4e-d603-4a46-bee3-6f0ee71225db
SCIP notification number (Bulgaria)	01b52c1c-ec21-414b-86ad-f659e14202b6
SCIP notification number (Czech Republic)	9c6c8803-64f3-4a85-91f1-57d708f3abb4
SCIP notification number (Denmark)	838cf8b1-72b5-4813-b87f-b8a0036a0bf9
SCIP notification number (Finland)	4dd03925-926b-4f29-8f31-e63579ca49df
SCIP notification number (France)	4e36d4c0-6cfa-4034-85ce-b9ce26add32f
SCIP notification number (Germany)	4360e8f1-f0fa-4223-8fd8-45e06f30ecb2
SCIP notification number (Hungary)	384a3968-4aa3-4ce2-b7d3-8fa3efc733cd
SCIP notification number (Italy)	08d6a1c7-019e-4515-8c3c-4088e86796eb
SCIP notification number (Netherlands)	34a6b5fc-7df2-45de-8627-231ec23a84e8
SCIP notification number (Poland)	3912dd18-fa91-4d3b-8110-9bc6a521ff87

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Environmental Product Compliance

SCIP notification number (Romania)

SCIP notification number (Sweden)

f8311ac1-c426-42a3-9ce9-def21f5c59b4 3483b7be-b09b-48d9-b220-0f3c4155da9a

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7894
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-120778

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 282-138



Documentation

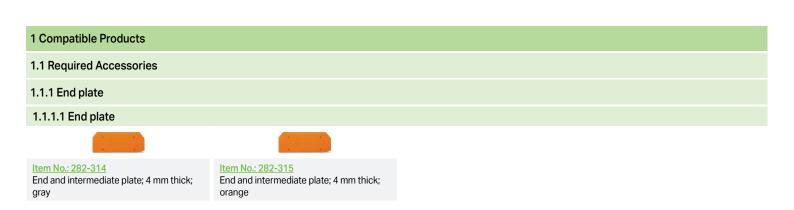
Additional Information
Technical Section

iical Section pdf 2246.92 KB

Bid Text			
282-138	19.02.2019	xml 2.96 KB	<u>↓</u>
282-138	12.06.2017	doc 24.00 KB	$\underline{\downarrow}$



CAD/CAE-Data CAE data CAD data 2D/3D Models 282-138 **EPLAN Data Portal** 282-138 WSCAD Universe 282-138 ZUKEN Portal 282-138



1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Locking system



Item No.: 282-137

Lock-out; prevents reclosing of slide link; snap-in type; orange

1.2.2 DIN-rail

1.2.2.1 Mounting accessories



Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

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.: 210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored





Item No.: 210-506

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-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



Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



Item No.: 210-112

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

Item No.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

https://www.wago.com/282-138



1.2.3 Ferrule

1.2.3.1 Ferrule



Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-153

Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-167

Cover carrier; Type 1; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.4.3 Mounting accessories





Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.2.5 Jumper

1.2.5.1 Jumper







Item No.: 282-422



<u>Item No.: 282-402</u>

Jumper; insulated; gray



Jumper; insulated; orange Jumper; insulated; yellow-green

Item No.: 709-110

Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-111

Wire commoning chain; 2.5 mm²; insulated; black

Item No.: 709-112

Item No.: 282-424

Wire commoning chain; 2.5 mm²; insulated; black

https://www.wago.com/282-138



1.2.6 Marking

1.2.6.1 Group marker carrier



Item No.: 209-143

Group marker carrier; gray



Item No.: 209-144

Group marker carrier; gray



Item No.: 249-105

Group marker carrier; gray

1.2.6.2 Marker



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

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; 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

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; light green



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.: 793-5501/000-024

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; violet



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.: 793-5501

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

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



WMB marking card; as card; not stretcha-

ble; 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



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

Item No.: 2009-115/000-012

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.: 2009-115/000-017

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



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

Continued on next page



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.: 2009-115/000-023

Item No.: 2009-115

snap-on type; white

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

WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain;

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



https://www.wago.com/282-138



1.2.7 Protective warning marker

1.2.7.1 Cover



<u>Item No.: 282-405</u>

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black;

1.2.8 Tool

1.2.8.1 Operating tool



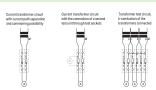
Item No.: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

https://www.wago.com/282-138



Testing

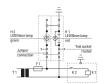


IEC 60204/DIN VDE 0113 "Safety of machinery - Electrical equipment of machines - Part 1: General requirements," Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

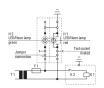
In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault. In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.



Operation

Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



Test condition - no ground fault

Slide link open, auxiliary circuit not groun-



Test condition - ground fault

Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.

Subject to changes. Please also observe the further product documentation!

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

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