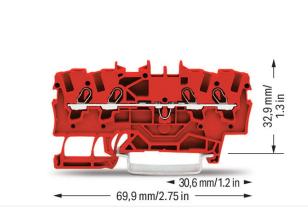
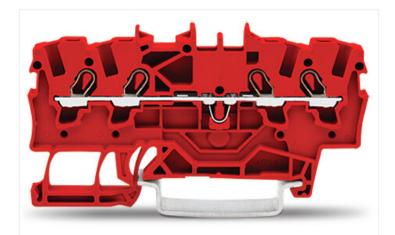
4-conductor through terminal block; 1.5 mm²; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP[®]; 1,50 mm²; red

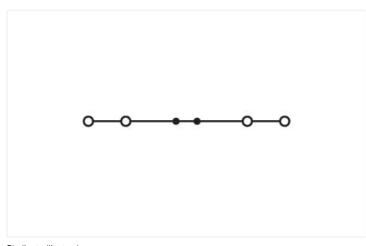


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Color: 📕 red



Similar to illustration

Electrical data

Ratings per	IEC/	EN 60947-	7-1
Overvoltage category	III	Ш	Ш
Pollution degree	3	2	2
Nominal voltage	800 V	-	-
Rated surge voltage	8 kV	-	-
Rated current	17.5 A	-	-
Current at conductor cross-section (max.) mm ²	24 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	600 V	600 V	-
Rated current	15 A	15 A	-

Approvals per	CS	SA 22.2 No 1	58
Use group	В	С	D
Rated voltage	600 V	600 V	-
Rated current	15 A	15 A	-

Ex information	
Reference hazardous areas	See application instructions in section "Knowledge and Downloads – Documentation – Additio- nal Information: Technical Section; Tech- nical Explications"
Ratings per	ATEX: PTB 05 ATEX 1094 U / IECEx: PTB 05.0034U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	17 A
Rated current (Ex e II) with jumper	16 A

Data Sheet | Item Number: 2001-1403 https://www.wago.com/2001-1403

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Power Loss	
Power loss, per pole (potential)	0.5929 W
Rated current I_{N} for specified power loss	18 A
Resistance value for specified, current- dependent power loss	0.00183 Ω

Connection data				
Connection points	4		Connection 1	
Total number of potentials	1		Connection technology	Push-in CAGE CLAMP®
Number of levels	1		Actuation type	Operating tool
lumber of jumper slots	2		Connectable conductor materials	Copper
			Nominal cross-section	1.5 mm²
			Solid conductor	0.25 2.5 mm² / 22 14 AWG
			Solid conductor; push-in termination	0.75 2.5 mm² / 18 14 AWG
			Fine-stranded conductor	0.25 2.5 mm² / 22 14 AWG
	Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm² / 22 16 AWG		
	Fine-stranded conductor; with ferrule; push-in termination	0.75 1.5 mm² / 18 16 AWG		
	Note (conductor cross-section)	Depending on the conductor charact stic, a conductor with a smaller cross section can also be inserted via push termination.		
			Strip length	9 11 mm / 0.35 0.43 inches
	Wiring direction	Front-entry wiring		

Physical data	
Width	4.2 mm / 0.165 inches
Height	69.9 mm / 2.752 inches
Depth from upper-edge of DIN-rail	32.9 mm / 1.295 inches

Mechanical data	
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	red
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.124 MJ
Weight	5.2 g

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N⁄A G	

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

Commercial data	
Product Group	22 (TOPJOB S)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454537418
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

General approvals

CCA 🕃 🛛		
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7963
CSA DEKRA Certification B.V.	C22.2 No. 158	1645434
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-125954
UL UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
ATEX-Attestation of Con- formity WAGO GmbH & Co. KG	-	-
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Railway Ready
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

AEx	Æx>
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Approval	Standard	Certificate Name
AEx UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt	UL 60079	E185892 (AEx e II resp. Ex e II)
ATEX Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 05 ATEX 1094 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000159 (Ex eb IIC Gb, Ex eb I Mb)
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	RU C-DE.AM02. B.00127/19 (Ex e IIC Gb U)
IECEx Physikalisch Technische Bundesanstalt (PTB)	IEC 60079	IECEx PTB 05. 0034 U (Ex eb IIC Gb or Ex eb I Mb)

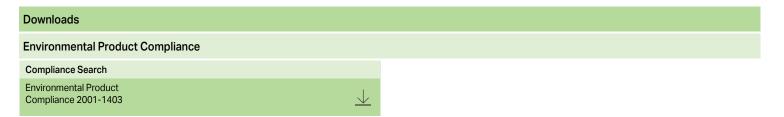
Approvals for marine applications

ABS.	
Approval	Star

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

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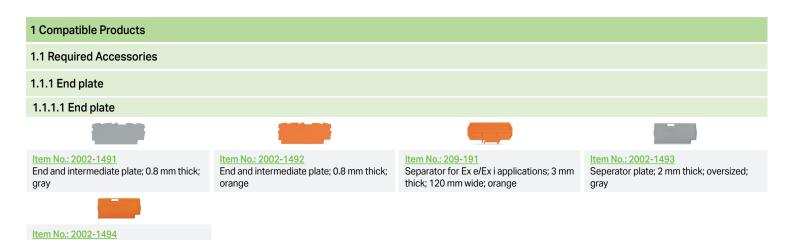


Documentation

Bid Text			
2001-1403	19.02.2019	xml 3.93 KB	$\underline{\downarrow}$
2001-1403	02.08.2018	docx 14.75 KB	\downarrow

CAD/CAE-Data			
CAD data		CAE data	
2D/3D Models 2001-1403	\downarrow	EPLAN Data Portal 2001-1403	\downarrow
		WSCAD Universe 2001-1403	\downarrow
		ZUKEN Portal	

2001-1403



orange

Seperator plate; 2 mm thick; oversized;

 $\overline{\checkmark}$

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1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



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

Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according 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.: 210-115

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.: 210-197

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

Item No.: 210-112

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.: 210-114

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



Item No.: 210-113

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

1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

Item No.: 216-242

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

Item No.: 216-243

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.: 216-244

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

1.2.3 Installation

1.2.3.1 Cover

Item No.: 709-156

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.3.2 Cover carrier

Item No.: 709-169

Cover carrier; Type 3; 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 https://www.wago.com/2001-1403

1.2.4 Insulation stop

1.2.4.1 Insulation stop

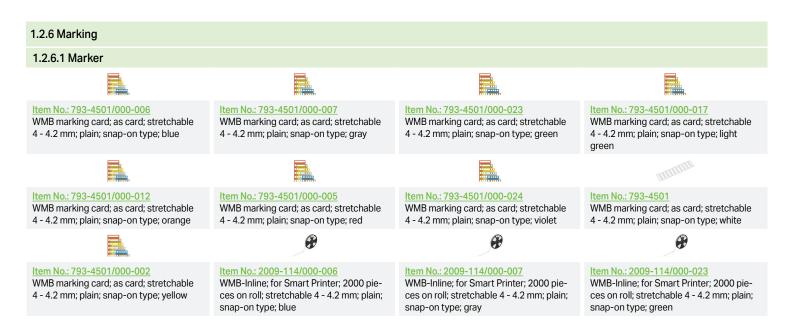
access

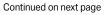
Item No.: 2001-171 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

1.2.5 Jumper

1.2.5.1 Jumper





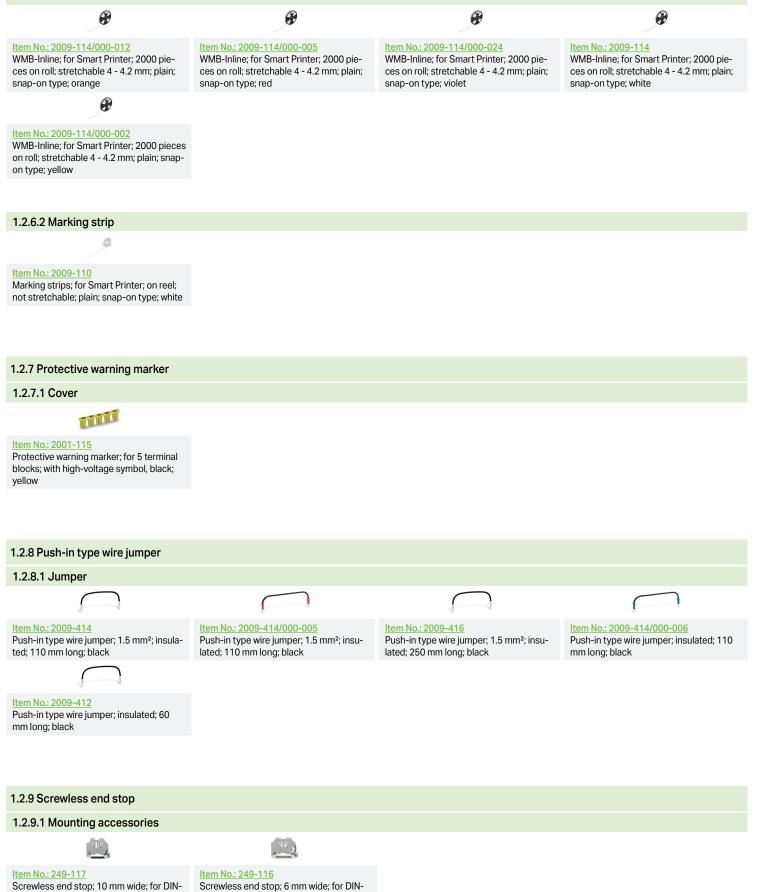




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1.2.6.1 Marker





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

rail 35 x 15 and 35 x 7.5; gray

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1.2.10 Test and measurement

1.2.10.1 Testing accessories Item No.: 2001-560 Item No.: 2001-511 Item No.: 2001-552 Item No.: 2001-553 Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,50 for jumper contact slot; 1-pole; 1,50 mm²; for jumper contact slot; 2-pole; 1,50 mm²; for jumper contact slot; 3-pole; 1,50 mm²; mm²; gray gray gray gray Item No.: 2001-554 Item No.: 2001-555 Item No.: 2001-556 Item No.: 2001-557 Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,50 mm²; for jumper contact slot; 5-pole; 1,50 mm²; for jumper contact slot; 6-pole; 1,50 mm²; for jumper contact slot; 7-pole; 1,50 mm²; gray gray gray gray Item No.: 2001-558 Item No.: 2001-559 Item No.: 2001-549 Item No.: 2009-174 Modular TOPJOB®S connector; modular; Modular TOPJOB®S connector; modular; Spacer module; modular; e.g., for bridging Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted termifor jumper contact slot; 8-pole; 1,50 mm²; for jumper contact slot; 9-pole; 1,50 mm²; commoned terminal blocks; gray nal blocks; gray gray gray Item No.: 2009-182 Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 -2.5 mm; gray

1.2.11 Tool

1.2.11.1 Operating tool

Item No.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-648 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

Item No.: 210-647 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination



All conductor types at a glance



Push-in termination of solid and ferruled conductors



Inserting a conductor via push-in termination:

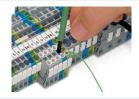
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in - no tools needed.



Inserting a conductor via operating tool: Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP[®] – just use an operating tool.

Advantage:

To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.



Conductor termination - insulation stop

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Commoning





Insert push-in type jumper bar and push down until it hits backstop.

Removing a push-in type jumper bar: Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper. Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

Commoning



This star point jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with Rail-Mount Terminal Blocks TOPJOB[®] S.



This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with rail-mount terminal blocks TOPJOB[®] S.



Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

Commoning



Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.



Stepping down via push-in type jumper bar:

Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm² (6 AWG) and 10 mm² (8 AWG) and one cross-section size for 6/4/2.5 mm² (10/12/14 AWG). An example: from 16 mm² (6 AWG) to 6 mm² (10 AWG) (see illustration above) or from 10 mm² (8 AWG) to 4 mm² (12 AWG).



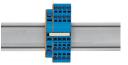
Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



Step-down jumper (Item No. 2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2006/2004 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2004/2002/2001 Series).



Step-down jumper (Item No. 2016-499) commons 16/10 mm² (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm² (8/10/12/14 AWG) terminal blocks (2010/2006/2004/2002 Series).



Stepping down via push-in type jumper bar:

Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).

Note:

The total current of the outgoing circuits must not exceed the nominal current of the step-down jumper/push-in type jumper bar.



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The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



Testing tap (Item No. 2009-182) for toolfree connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series





Snapping WMB Inline markers into marker slots.



TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



Rail-mount terminal block assembly for electric motor wiring



Test plug adapter (Item No. 2009-174, CAT I) for 4 mm Ø plugs - compatible with 2000 to 2016 Series





TOPJOB® S 2009-193 Group Marker Carrier (equipped with a marking strip) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks Do not use on an end plate!

Ex application







Ex e II/Ex i terminal strip Note: The movable feet of terminal blocks and separator plates must face the same direction.



Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



All through and ground conductor terminal blocks are suitable for Ex e II applications.



Separator plate for Ex e/Ex i applications

An end plate must be applied to the terminal block located directly behind an Ex e/ Ex i separator plate.



A separator plate is located between the Ex e II and Ex i terminal strip.

End plate Ex e II terminal blocks

Separator plate for Ex e/Ex i applications End plate

Ex i terminal blocks According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common DINrail.

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

Current addresses can be found at:: <u>www.wago.com</u>