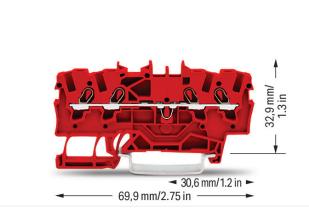
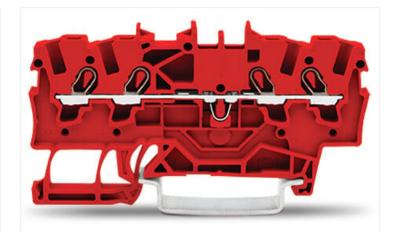
4-conductor through terminal block; 1.5 mm<sup>2</sup>; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,50 mm<sup>2</sup>; red



https://www.wago.com/2001-1403





Color: Ired



Similar to illustration

### Electrical data

Ratings per	IEC	/EN 60947-	7-1
Overvoltage category	Ш	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 <sup>2</sup>	24 A	-	-

Approvals par		UL 1059	
Approvals per		01 1039	
Use group	В	С	D
Rated voltage	600 V	600 V	-
Rated current	15 A	15 A	-

Approvals per	CS	A 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 $\mathrm{I}_{\mathrm{N}}$ 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
Number 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 characte 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)	<a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>
Color	red
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.124 MJ
Weight	5.2 g

https://www.wago.com/2001-1403

<b>N⁄A</b> 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

<b>AEx</b>	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)

ERE 🖬 IECEX

### Approvals for marine applications

ABS.	
Approval	Standard
ABS	EN 60947

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

**Certificate Name** 

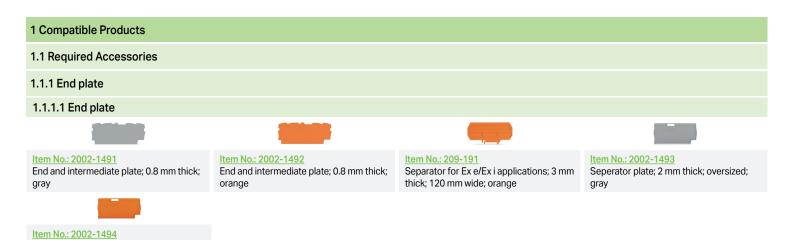
https://www.wago.com/2001-1403



Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2001-1403	<u> </u>

Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2240.62 KB	$\underline{\checkmark}$	2001-1403	19.02.2019	xml 3.93 KB	$\underline{\checkmark}$
			2001-1403	02.08.2018	docx 14.75 KB	$\underline{\downarrow}$

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



orange

Seperator plate; 2 mm thick; oversized;

https://www.wago.com/2001-1403

### 1.2 Optional Accessories

### 1.2.1 DIN-rail

### 1.2.1.1 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.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

## thick; 2 m long; unslotted; according to

Item No.: 210-198

EN 60715; copper-colored

Copper carrier rail; 35 x 15 mm; 2.3 mm

### 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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



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### 1.2.4 Insulation stop

### 1.2.4.1 Insulation stop

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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

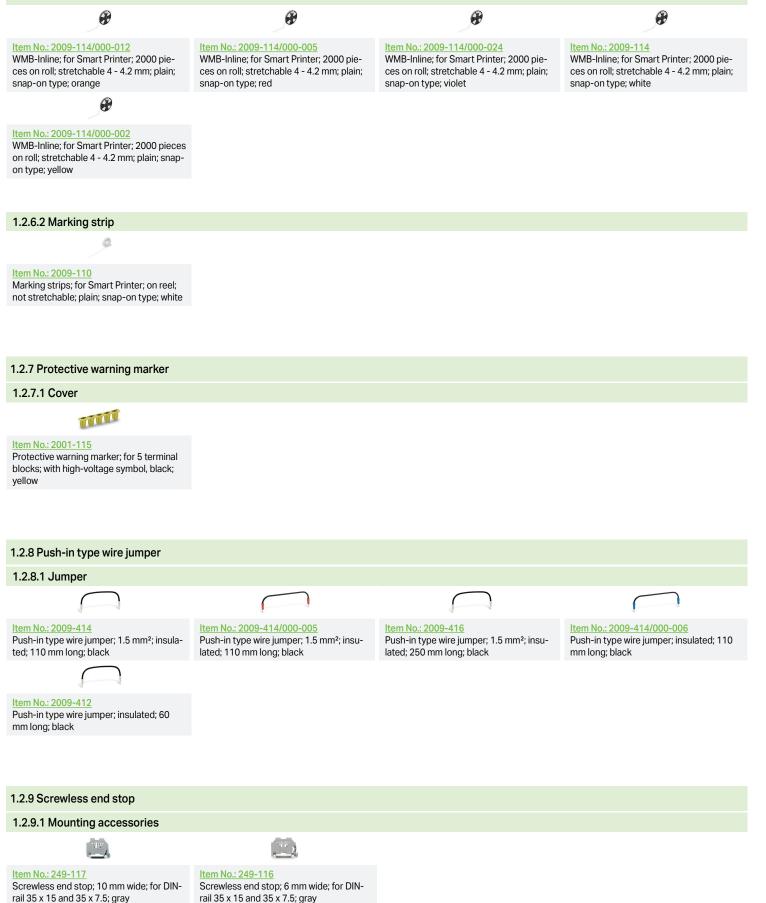




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### 1.2.6.1 Marker

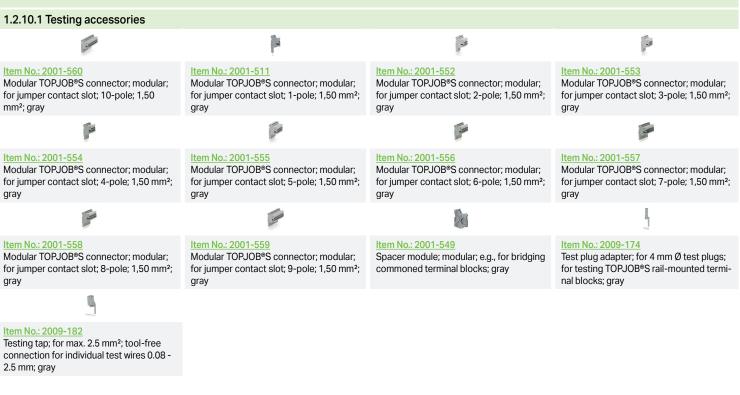




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### 1.2.10 Test and measurement



### 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<sup>®</sup> – 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<sup>®</sup> 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<sup>®</sup> 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).



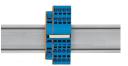
Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



Step-down jumper (2006-499) commons 6/4 mm<sup>2</sup> (10/12 AWG) terminal blocks (2006/2004 Series) with 4/2.5/1.5 mm<sup>2</sup> (AWG 12/14/16) terminal blocks (2004/2002/2001 Series).



**Step-down jumper (2016-499)** commons 16/10 mm<sup>2</sup> (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm<sup>2</sup> (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 mm<sup>2</sup> (6 AWG) to 6 mm<sup>2</sup> (10 AWG) or from 6 mm<sup>2</sup> (10 AWG) to 2.5 mm<sup>2</sup> (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 (2009-182) for tool-free connection of test cables up to 2.5 mm<sup>2</sup> (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 (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!