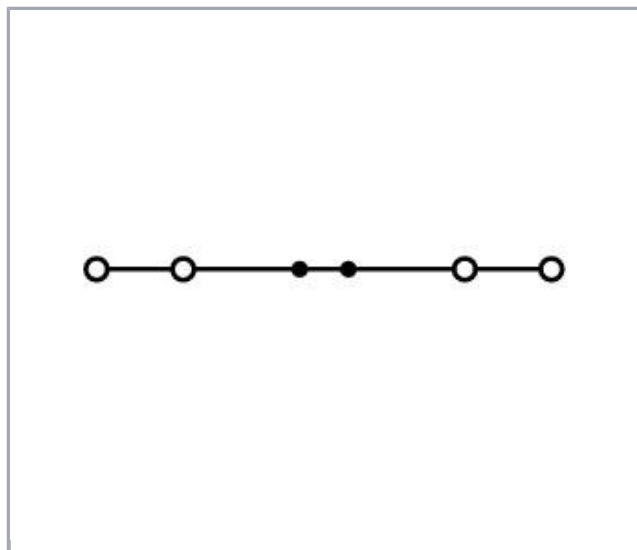


Data sheet | Item number: 2000-1403

4-conductor through terminal block; 1 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®; 1,00 mm²; red



Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60947-7-1
Rated voltage (III / 3)	800 V
Rated impulse voltage (III / 3)	8 kV
Rated current	13.5 A
Rated current (2)	17.5 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Approvals per UL 1059

Rated voltage UL (Use Group B)	600 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	15 A

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

Approvals per UL 1059

Approvals per CSA

Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	10 A

Approvals Ex

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	13 A
Rated current (Ex e II) with jumper	12 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper
Nominal cross section	1 mm²
Solid conductor	0,14 ... 1,5 mm² / 24 ... 16 AWG
Solid conductor, push-in termination	0,5 ... 1,5 mm² / 20 ... 16 AWG
Fine-stranded conductor	0,14 ... 1,5 mm² / 24 ... 16 AWG
Fine-stranded conductor with ferrule with plastic collar	0,5 ... 0,75 mm² / 20 ... 18 AWG
Fine-stranded conductor with ferrule, push-in termination, from	0,5 ... 0,75 mm² / 20 ... 18 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Total number of connection points	4
Total number of potentials	1
Number of levels	1
Type of wiring	Front-entry wiring
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Number of jumper slots	2

Geometrical Data

Width	3,5 mm / 0.138 inch
Height from upper-edge of DIN-35 rail	32,9 mm / 1.295 inch
Depth	67,9 mm / 2.673 inch

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

Mechanical data

Design	horizontal type
Type of mounting	DIN-35 rail
Marking level	Center/side marking

Material Data



Color	red
Insulating material	Polyamide 66 (PA 66)
Fire load	0.107 MJ
Weight	5.1 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	CN
GTIN	4045454966942
Customs Tariff No.	85369010000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	AEx Underwriters Laboratories Inc.	UL 60079	E185892
	ATEX Physikalisch Technische Bundesanstalt	EN 60079	PTB 11 ATEX 1041 U (II 2 G Ex e IIC GB / I M 2 Ex e I Mb)

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	71- 102841

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







CSA
DEKRA Certification B.V.

C22.2 No. 158

2130762

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/A0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

Counterpart

Compatible products

tools

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



Item no.: 210-647
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.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Push-In type wire jumper



Item no.: 2009-402
Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray



Item no.: 2009-404
Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray



Item no.: 2009-406
Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 0.75 mm²; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray

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

check



Item no.: 2000-510
TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1,00 mm²; gray



Item no.: 2000-511
TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1-pole; 1,00 mm²; gray



Item no.: 2000-549
Spacer module; modular; e.g., for bridging commoned terminal blocks; gray



Item no.: 2000-552
Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 1,00 mm²; gray



Item no.: 2000-553
Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 1,00 mm²; gray




















Item no.: 2000-554
Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,00 mm²; gray

















Item no.: 2000-555
Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 1,00 mm²; gray

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

	Item no.: 2000-556 Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 1,00 mm²; gray
	Item no.: 2000-557 Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 1,00 mm²; gray
	Item no.: 2000-558 Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 1,00 mm²; gray
	Item no.: 2000-559 Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 1,00 mm²; gray
	Item no.: 2000-560 Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,00 mm²; gray
	Item no.: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; 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
	Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable; red
	Item no.: 210-137 Test plug; 2.3 mm Ø; with 500 mm cable; yellow
Carrier rail	
	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
	Item no.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715
	Item no.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715
	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
	Item no.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715
	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.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715
	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

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

Jumper

	Item no.: 2000-402 Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; light gray
	Item no.: 2000-402/000-005 Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; red
	Item no.: 2000-402/000-006 Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; blue
	Item no.: 2000-402/000-018 Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; yellow-green
	Item no.: 2000-403 Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; light gray
	Item no.: 2000-403/000-005 Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; red
	Item no.: 2000-403/000-006 Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; blue
	Item no.: 2000-404 Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; light gray
	Item no.: 2000-404/000-005 Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; red
	Item no.: 2000-404/000-006 Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; blue
	Item no.: 2000-405 Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; light gray
	Item no.: 2000-405/000-005 Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; red
	Item no.: 2000-405/000-006 Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; blue
	Item no.: 2000-405/011-000 Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray

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



Item no.: 2000-406

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; light gray



Item no.: 2000-406/000-005

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; red



Item no.: 2000-406/000-006

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; blue



Item no.: 2000-406/020-000

Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray



Item no.: 2000-407

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; light gray



Item no.: 2000-407/000-005

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; red



Item no.: 2000-407/000-006

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; blue



Item no.: 2000-408

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; light gray



Item no.: 2000-408/000-005

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; red



Item no.: 2000-408/000-006

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; blue



Item no.: 2000-409

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; light gray



Item no.: 2000-409/000-005

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; red



Item no.: 2000-409/000-006

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; blue



Item no.: 2000-410

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; light gray



Item no.: 2000-410/000-005

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; red

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



Item no.: 2000-410/000-006

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; blue



Item no.: 2000-433

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; light gray



Item no.: 2000-433/000-005

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; red



Item no.: 2000-433/000-006

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; blue



Item no.: 2000-434

Push-in type jumper bar; insulated; from 1 to 4; Nominal current 14 A; light gray



Item no.: 2000-435

Push-in type jumper bar; insulated; from 1 to 5; Nominal current 14 A; light gray



Item no.: 2000-436

Push-in type jumper bar; insulated; from 1 to 6; Nominal current 14 A; light gray



Item no.: 2000-437

Push-in type jumper bar; insulated; from 1 to 7; Nominal current 14 A; light gray



Item no.: 2000-438

Push-in type jumper bar; insulated; from 1 to 8; Nominal current 14 A; light gray



Item no.: 2000-439

Push-in type jumper bar; insulated; from 1 to 9; Nominal current 14 A; light gray



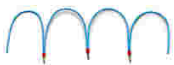
Item no.: 2000-440

Push-in type jumper bar; insulated; from 1 to 10; Nominal current 14 A; light gray



Item no.: 210-103

Wire commoning chain; insulated; 50 connections; black



Item no.: 210-123

Wire commoning chain; insulated; 50 connections

End plate



Item no.: 2000-1491

End and intermediate plate; 0.7 mm thick; gray



Item no.: 2000-1492

End and intermediate plate; 0.7 mm thick; orange



Item no.: 209-191

Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

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

Protective Warning Marker



Item no.: 2000-115

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

Marking accessories



Item no.: 2009-110

Marking strips; on reel; not stretchable; plain; snap-on type; white



Item no.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white



Item no.: 2009-113/000-002

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow



Item no.: 2009-113/000-005

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red



Item no.: 2009-113/000-006

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue



Item no.: 2009-113/000-007

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray



Item no.: 2009-113/000-012

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange



Item no.: 2009-113/000-017

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green



Item no.: 2009-113/000-023

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green



Item no.: 2009-113/000-024

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet



Item no.: 2009-191

Group marker carrier



Item no.: 793-3501

WMB marking card; as card; plain; snap-on type; white

Downloads

Documentation

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

CAD/CAE-Data

CAD data

2D/3D Models 2000-1403

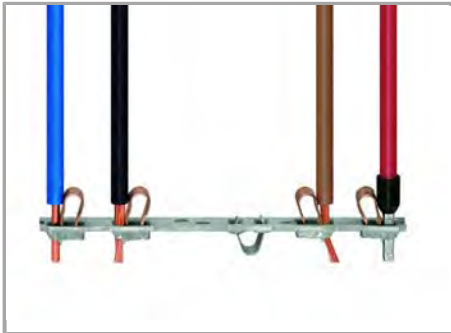
CAE data

EPLAN Data Portal 2000-1403

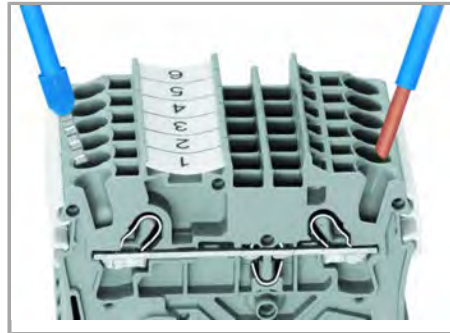
WSCAD Universe 2000-1403

Installation Notes

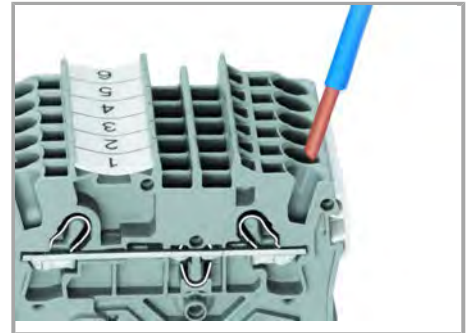
Conductor termination



All conductor types at a glance



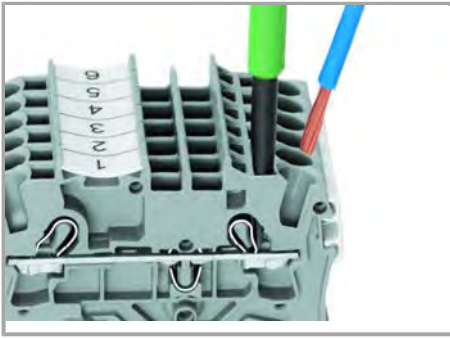
Terminating solid and ferruled conductors via push-in connection.



Inserting conductors 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.

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



Inserting a conductor via operating tool.

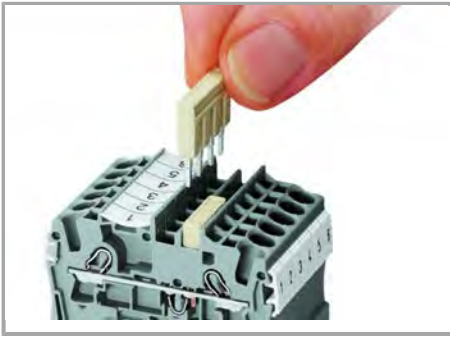
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

The smart feature:

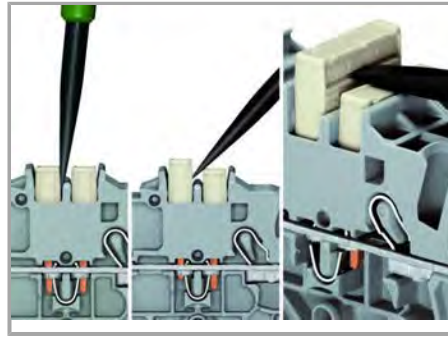
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning

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



The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).

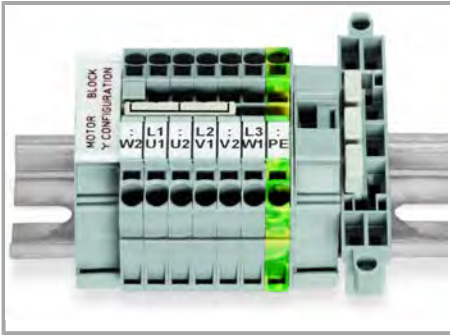


Removing a push-in type jumper bar.

Insert the operating tool between the jumper and the partition wall of the dual jumper slots, then lift up the jumper.

Place the operating tool in the center of jumpers 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 TOPJOB® S rail-mount terminal blocks.



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



Push down the wire jumper (2009-402) until fully inserted. Lift the jumper with an operating tool for rewiring.

Testing

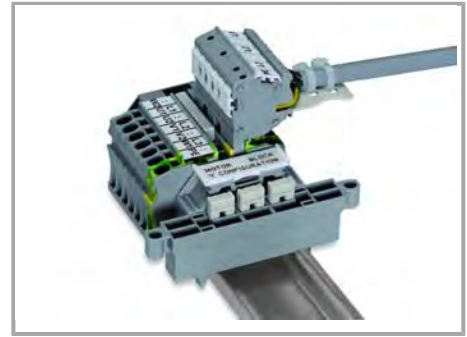
Subject to changes. Please also observe the further product documentation!



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



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

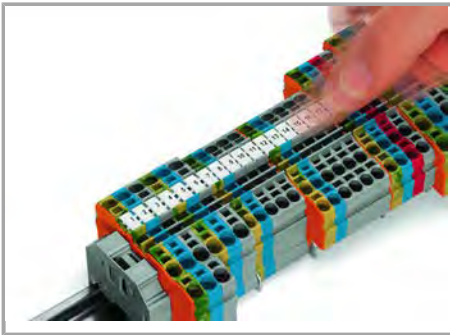


Test plug adapter (2009-174, CAT II) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

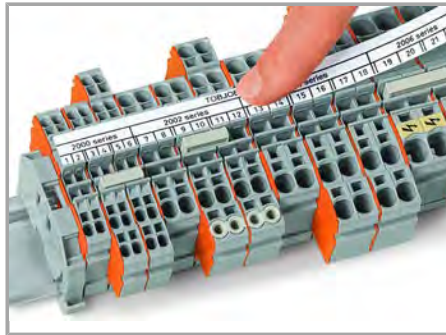


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



Snapping WMB Inline markers into marker slots.

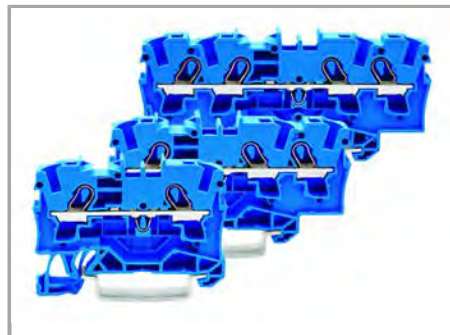


Subject to changes. Please also observe the further product documentation!



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!

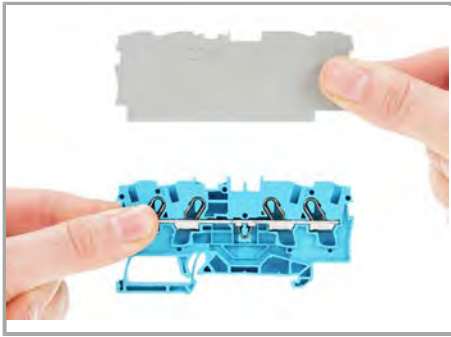


Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



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

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



Separator for Ex e/Ex applications

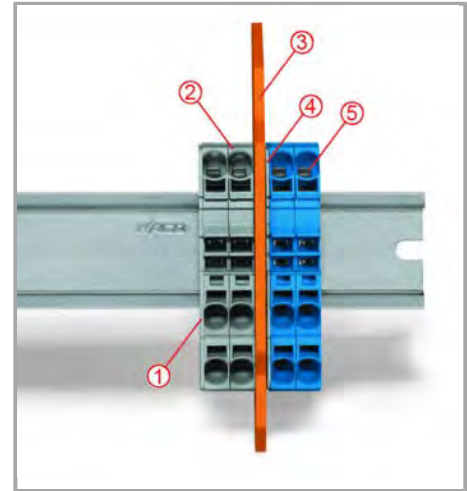
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.



Ex e II/Ex i terminal strip

Notice:

The movable feet of terminal blocks and separator plates must face the same direction.



Separator located between Ex e II and Ex i terminal strip

End plate

Ex e II terminal blocks

Separator 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 carrier rail.

Product family

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



TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

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