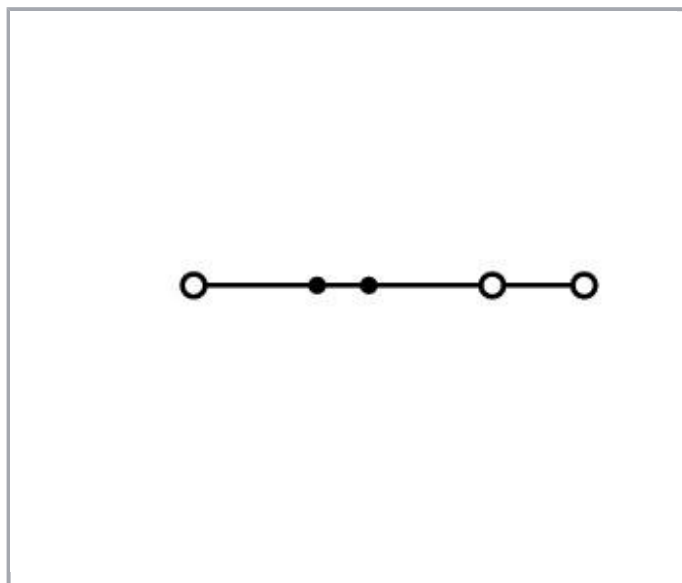
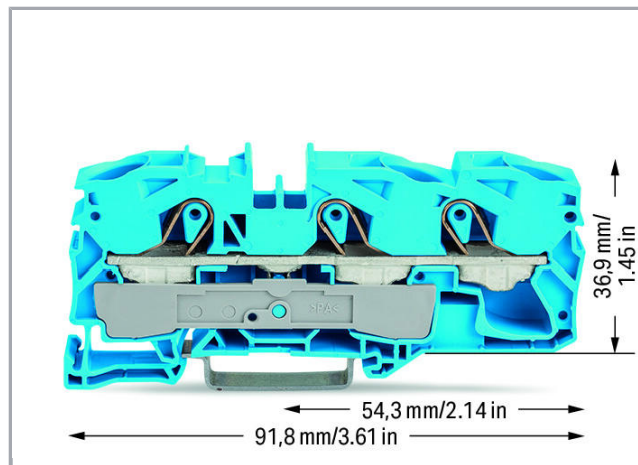
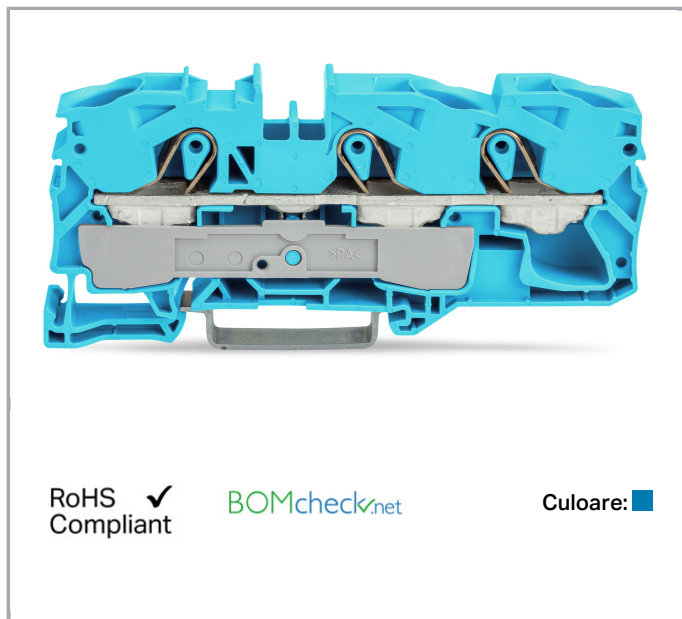


Fișă tehnică | Număr articol: 2016-1304

3-conductor through terminal block; 16 mm²; for Ex e II and Ex i applications;
side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE
CLAMP®; 16,00 mm²; blue

www.wago.com/2016-1304



Descriere articol

Safety information 1:

15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

Supus modificărilor.

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**Date****Electrical data****Ratings per IEC/EN 60664-1**

| Ratings per | IEC/EN 60947-7-1 |
|-----------------------------|--|
| Nominal voltage (III/3) | 800 V |
| Rated surge voltage (III/3) | 8 kV |
| Rated current | 76 A |
| Rated current 2 | 90 A |
| Legend (ratings) | (III / 3) \triangleq Overvoltage category III / Pollution degree 3 |

Approvals per UL 1059

| | |
|--------------------------------|---------|
| Rated voltage UL (Use Group B) | 600 V |
| Rated current UL (Use Group B) | 85 A |
| Rated voltage UL (Use Group C) | 600 V |
| Rated current UL (Use Group C) | 85 A |
| Approvals per | UL 1059 |

Approvals per CSA

| | |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 80 A |
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group C) | 80 A |

Approvals Ex

| | |
|-------------------------------------|-------|
| Rated voltage EN (Ex e II) | 550 V |
| Rated current (Ex e II) | 67 A |
| Rated current (Ex e II) with jumper | 65 A |

Connection data

| | |
|---------------------------------|---------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-in Open Tool Slot |
| Connectable conductor materials | Copper |
| Nominal cross-section | 16 mm ² |

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| | |
|--|---|
| Solid conductor | 0,5 ... 16 mm ² / 20 ... 6 AWG |
| Solid conductor; push-in termination | 6 ... 16 mm ² / 14 ... 6 AWG |
| Fine-stranded conductor | 0,5 ... 25 mm ² / 20 ... 4 AWG |
| Fine-stranded conductor; with insulated ferrule | 6 ... 16 mm ² / 10 ... 6 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 6 ... 16 mm ² / 10 ... 6 AWG |
| Strip length | 18 ... 20 mm / 0.71 ... 0.79 inch |
| Total number of connection points | 3 |
| Total number of potentials | 1 |
| Number of levels | 1 |
| Wiring type | 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 | 12 mm / 0.472 inch |
| Height from upper-edge of DIN-rail | 36,9 mm / 1.453 inch |
| Depth | 91,8 mm / 3.622 inch |

Mechanical data

| | |
|---------------|---------------------|
| Design | horizontal type |
| Mounting type | DIN-35 rail |
| Marking level | Center/side marking |

Material Data

| | |
|---------------------|----------------------|
| Color | blue |
| Insulation material | Polyamide 66 (PA 66) |
| Fire load | 0,454 MJ |
| Weight | 30,2 g |

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 22 (TOPJOB S) |
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4017332076739 |
| Customs tariff number | 85369010000 |




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Aprobări / certificate


Ex-Approvals

| Emblemă | Aprobare | Text de aprobare suplimentar | Nume certificat |
|--|---|------------------------------|---|
|  | AEx UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt | UL 60079 | E185892 sec.9 |
|  | ATEX Physikalisch Technische Bundesanstalt (PTB) | EN 60079 | PTB 05 ATEX 1031 U (II 2 G Ex eII bzw. I M2 Ex eI) |
|  | IECEX Physikalisch Technische Bundesanstalt (PTB) | IEC 60079 | IECEX PTB 05.0015 U |

Country specific Approvals

| Emblemă | Aprobare | Text de aprobare suplimentar | Nume certificat |
|--|--|------------------------------|-----------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | 2172580.01 |
|  | CCA DEKRA Certification B.V. | EN 60947 | NTR NL- 7294 |
|  | CSA DEKRA Certification B.V. | C22.2 No. 158 | 1579112 |

Ship Approvals

| Emblemă | Aprobare | Text de aprobare suplimentar | Nume certificat |
|--|---|------------------------------|--------------------------|
|  | ABS American Bureau of Shipping | - | 20- HG1941090- PDA |
| | BV Bureau Veritas S.A. | EN 60947 | 38586/A0 |

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BUREAU
VERITAS

DNV GL

Det Norske Veritas, Germanischer Lloyd

-

TAE00001V2




LR

Lloyds Register

EN 60947

91/20112
(E9)




UL-Approvals

| Emblemă | Aprobare | Text de aprobare suplimentar | Nume certificat |
|--|-------------------------------------|------------------------------|-----------------|
|  | UL UL International Germany GmbH | UL 1059 | E45172 |

Counterpart

Produse compatibile

Jumper

| | | |
|--|---|--|
|  | Nr. articol: 2016-402 Push-in type jumper bar; insulated; 2-way; Nominal current 76 A; light gray | www.wago.com/2016-402 |
|  | Nr. articol: 2016-403 Push-in type jumper bar; insulated; 3-way; Nominal current 76 A; light gray | www.wago.com/2016-403 |
|  | Nr. articol: 2016-404 Push-in type jumper bar; insulated; 4-way; Nominal current 76 A; light gray | www.wago.com/2016-404 |
| | Nr. articol: 2016-405 Push-in type jumper bar; insulated; 5-way; Nominal current 76 A; light gray | www.wago.com/2016-405 |

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**Nr. articol:** 2016-405/011-000

Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray

www.wago.com/2016-405/011-000**Nr. articol:** 2016-433

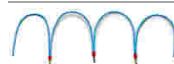
Push-in type jumper bar; insulated; from 1 to 3; Nominal current 76 A; light gray

www.wago.com/2016-433**Nr. articol:** 2016-434

Push-in type jumper bar; insulated; from 1 to 4; Nominal current 76 A; light gray

www.wago.com/2016-434**Nr. articol:** 2016-435

Push-in type jumper bar; insulated; from 1 to 5; Nominal current 76 A; light gray

www.wago.com/2016-435**Nr. articol:** 2016-499Step-down jumper; insulated; from 16/10 mm² to 10/6/4/2.5 mm²; Nominal current 57 A; light graywww.wago.com/2016-499**Nr. articol:** 210-123

Wire commoning chain; insulated; 50 connections

www.wago.com/210-123**Nr. articol:** 285-430

Step-down jumper; insulated; from 285-13x to 2010 and 2016 Series TOPJOB®S terminal blocks; Nominal current 90 A; gray

www.wago.com/285-430**check****Nr. articol:** 2009-174

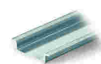
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

www.wago.com/2009-174**Nr. articol:** 2009-182Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; graywww.wago.com/2009-182**Nr. articol:** 2016-511Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 16,00 mm²; graywww.wago.com/2016-511**Nr. articol:** 2016-549

Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

www.wago.com/2016-549**Carrier rail****Nr. articol:** 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

www.wago.com/210-112**Nr. articol:** 210-113

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

www.wago.com/210-113**Nr. articol:** 210-114
















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

www.wago.com/210-114**Nr. articol:** 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

www.wago.com/210-115

Supus modificărilor.















| | | |
|--|---|--|
|  | Nr. articol: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715 | www.wago.com/210-118 |
|  | Nr. articol: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | www.wago.com/210-196 |
|  | Nr. articol: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715 | www.wago.com/210-197 |
|  | Nr. articol: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored | www.wago.com/210-198 |
| Protective Warning Marker | | |
|  | Nr. articol: 2016-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow | www.wago.com/2016-115 |
| End plate | | |
|  | Nr. articol: 2016-1391 End and intermediate plate; 1 mm thick; gray | www.wago.com/2016-1391 |
|  | Nr. articol: 2016-1392 End and intermediate plate; 1 mm thick; orange | www.wago.com/2016-1392 |
|  | Nr. articol: 209-191 Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange | www.wago.com/209-191 |
| ferrule | | |
|  | Nr. articol: 216-210 Ferrule; Sleeve for 16 mm ² / AWG 6; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue | www.wago.com/216-210 |
|  | Nr. articol: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-284 |
|  | Nr. articol: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue | www.wago.com/216-286 |
|  | Nr. articol: 216-287 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-287 |
|  | Nr. articol: 216-288 Ferrule; Sleeve for 6 mm ² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow | www.wago.com/216-288 |
|  | Nr. articol: 216-289 Ferrule; Sleeve for 10 mm ² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | www.wago.com/216-289 |
| tools | | |
|  | Nr. articol: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft | www.wago.com/210-721 |

Marking accessories

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| | | |
|--|--|---|
|  | Nr. articol: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type; white | www.wago.com/2009-110 |
|  | Nr. articol: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white | www.wago.com/2009-115 |
|  | Nr. articol: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | www.wago.com/2009-115 /000-002 |
|  | Nr. articol: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | www.wago.com/2009-115 /000-006 |
|  | Nr. articol: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray | www.wago.com/2009-115 /000-007 |
|  | Nr. articol: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | www.wago.com/2009-115 /000-012 |
|  | Nr. articol: 2009-115/000-017 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green | www.wago.com/2009-115 /000-017 |
|  | Nr. articol: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green | www.wago.com/2009-115 /000-023 |
|  | Nr. articol: 2009-115/000-024 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | www.wago.com/2009-115 /000-024 |
|  | Nr. articol: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white | www.wago.com/2009-145 |
|  | Nr. articol: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | www.wago.com/2009-145 /000-002 |
|  | Nr. articol: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red | www.wago.com/2009-145 /000-005 |
|  | Nr. articol: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | www.wago.com/2009-145 /000-006 |
|  | Nr. articol: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray | www.wago.com/2009-145 /000-007 |

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|  | Nr. articol: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green | www.wago.com/2009-145/000-023 |
|  | Nr. articol: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | www.wago.com/2009-145/000-024 |
|  | Nr. articol: 2009-191 Group marker carrier | www.wago.com/2009-191 |
|  | Nr. articol: 2009-192 Group marker carrier | www.wago.com/2009-192 |
|  | Nr. articol: 2009-193 Group marker carrier | www.wago.com/2009-193 |
|  | Nr. articol: 2009-198 Adaptor | www.wago.com/2009-198 |
|  | Nr. articol: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card | www.wago.com/248-501 |
|  | Nr. articol: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow | www.wago.com/248-501/000-002 |
|  | Nr. articol: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/248-501/000-005 |
|  | Nr. articol: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue | www.wago.com/248-501/000-006 |
|  | Nr. articol: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray | www.wago.com/248-501/000-007 |
|  | Nr. articol: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/248-501/000-012 |
|  | Nr. articol: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green | www.wago.com/248-501/000-017 |
|  | Nr. articol: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green | www.wago.com/248-501/000-023 |

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|--|--|--|
|  | Nr. articol: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet | www.wago.com/248-501/000-024 |
|  | Nr. articol: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/793-501 |
|  | Nr. articol: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type; yellow | www.wago.com/793-501/000-002 |
|  | Nr. articol: 793-501/000-005 WMB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/793-501/000-005 |
|  | Nr. articol: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; blue | www.wago.com/793-501/000-006 |
|  | Nr. articol: 793-501/000-007 WMB marking card; as card; not stretchable; plain; snap-on type; gray | www.wago.com/793-501/000-007 |
|  | Nr. articol: 793-501/000-012 WMB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/793-501/000-012 |
|  | Nr. articol: 793-501/000-017 WMB marking card; as card; not stretchable; plain; snap-on type; light green | www.wago.com/793-501/000-017 |
|  | Nr. articol: 793-501/000-023 WMB marking card; as card; not stretchable; plain; snap-on type; green | www.wago.com/793-501/000-023 |
|  | Nr. articol: 793-501/000-024 WMB marking card; as card; not stretchable; plain; snap-on type; violet | www.wago.com/793-501/000-024 |
|  | Nr. articol: 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 | www.wago.com/793-5501 |
|  | Nr. articol: 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 | www.wago.com/793-5501/000-002 |
|  | Nr. articol: 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 | www.wago.com/793-5501/000-005 |
|  | Nr. articol: 793-5501/000-006 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap- | www.wago.com/793-5501/000-006 |

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on type; blue

**Nr. articol:** 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

www.wago.com/793-5501/000-007**Nr. articol:** 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

www.wago.com/793-5501/000-012**Nr. articol:** 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; green

www.wago.com/793-5501/000-017**Nr. articol:** 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; light green

www.wago.com/793-5501/000-023**Nr. articol:** 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

www.wago.com/793-5501/000-024**General accessories****Nr. articol:** 2016-100

Finger guard; touchproof cover protects unused conductor entries; yellow

www.wago.com/2016-100**Descărcări****Documentation****Additional Information**

Technical explanations

Apr 3, 2019

pdf
2,1 MB

Descărcare

CAD/CAE-Data**CAD data**

2D/3D Models 2016-1304

URL

Descărcare

CAE data

EPLAN Data Portal 2016-1304

URL

Descărcare

WSCAD Universe 2016-1304

URL

Descărcare

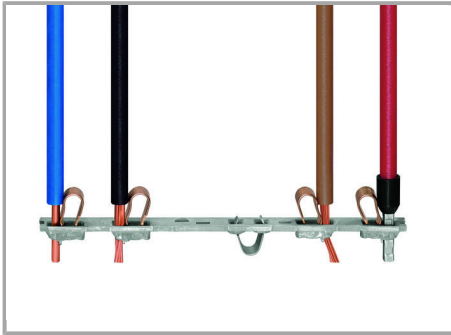
Installation Notes

Supus modificărilor.

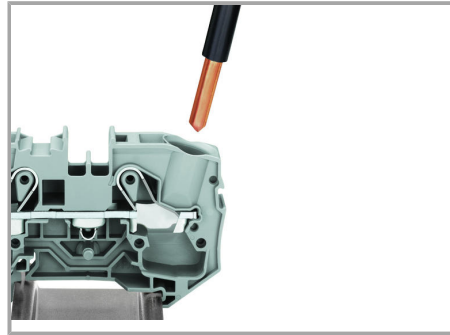
WAGO Kontakttechnik GmbH & Co. KG
/Representative Office Romania
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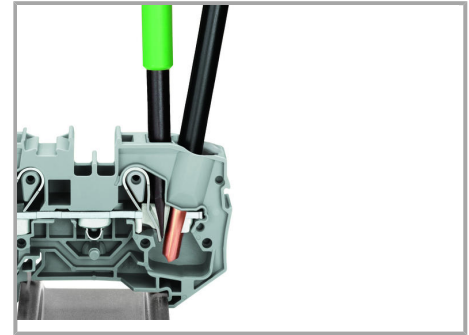
Conductor termination



All conductor types at a glance



Inserting conductors via push-in termination.

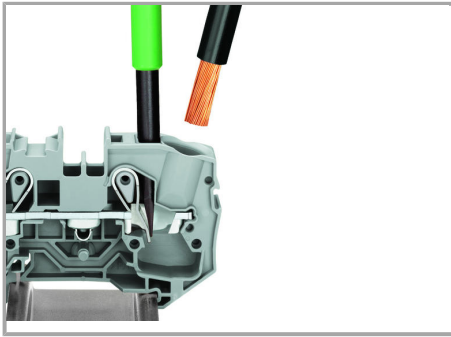


Removing a conductor.

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.

Conductor removal is performed with an operating tool, just like CAGE CLAMP®.

Supus modificărilor.



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

Supus modificărilor.



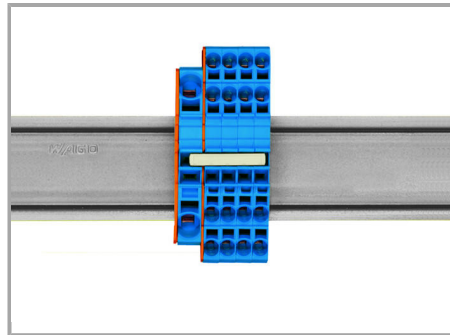
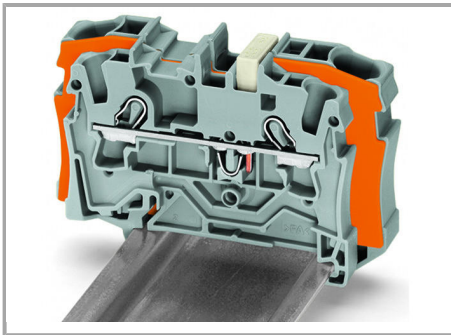
The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the 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



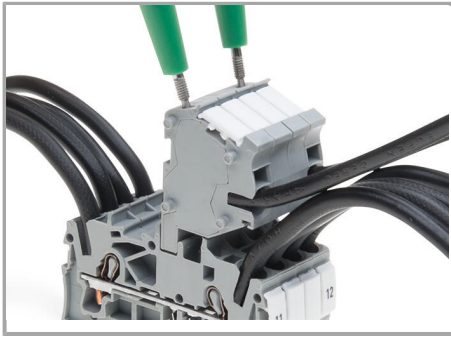
Step-down jumper (2006-499) commons 6 /4 mm² (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm² (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

Stepping down via push-in type jumper bar.

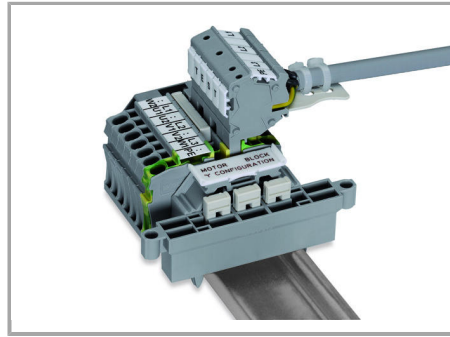
Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).

Testing

Supus modificărilor.

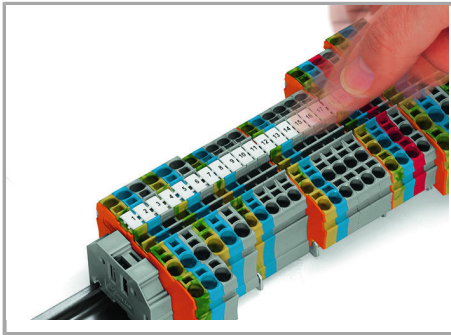


TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester

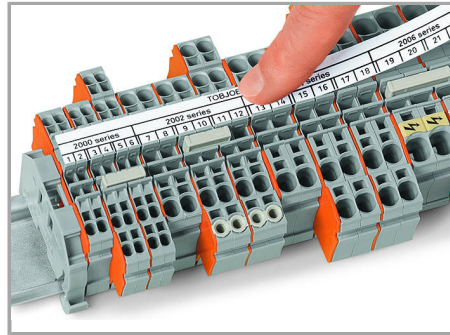


Rail-mount terminal block assembly for electric motor wiring

Marking

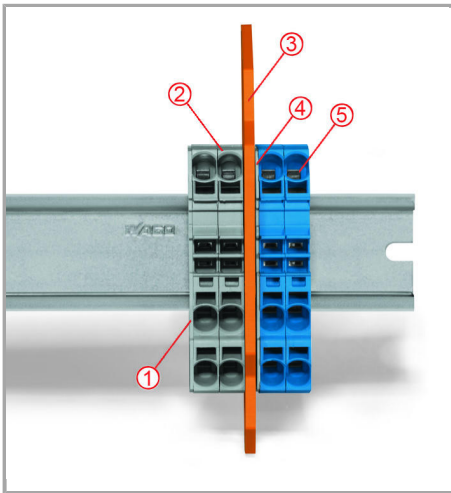


Snapping WMB Inline markers into marker slots.



Ex Application

Supus modificărilor.



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.

Familie de produse

Supus modificărilor.

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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.

Afișare globală produse din familie.

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