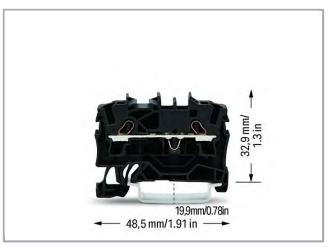
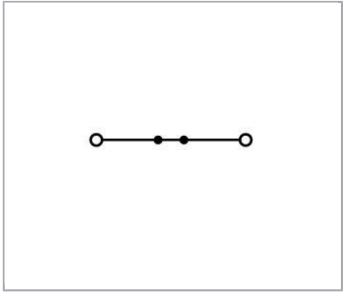
Data sheet | Item number: 2002-1205

2-conductor through terminal block; 2.5 mm²; suitable for Ex e II applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Pushin CAGE CLAMP®; $2,50 \text{ mm}^2$; black









Data Electrical data

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$



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	24 A
Rated current (2)	32 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)	20 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A
Approvals per	UL 1059

Approvals per CSA

Rated voltage CSA (Use Group B)	600 V
Rated current CSA (Use Group B)	20 A
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	20 A

Approvals Ex

Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	22 A
Rated current (Ex e II) with jumper	20 A

Connection data

Connection technology	Push-in CAGE CLAMP®	
Actuation type	Push-in	
	Open Tool Slot	
Connectable conductor materials	Copper	
Nominal cross section	2,5 mm²	
Solid conductor	0,25 4 mm² / 22 12 AWG	
Solid conductor, push-in termination	0,75 4 mm² / 18 12 AWG	
Fine-stranded conductor	0,25 4 mm² / 22 12 AWG	



Fine-stranded conductor with ferrule with plastic collar	1 2,5 mm² / 18 12 AWG
Fine-stranded conductor with ferrule, push-in termination, from	1 2,5 mm² / 18 12 AWG
Strip length	10 12 mm / 0.39 0.47 inch
Total number of connection points	2
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	5,2 mm / 0.205 inch
Height from upper-edge of DIN-35 rail	32,9 mm / 1.295 inch
Depth	48,5 mm / 1.909 inch

Mechanical data

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

Material Data

Color	black
Insulating material	Polyamide 66 (PA 66)
Fire load	0.109 MJ
Weight	4.9 g

Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	DE
GTIN	4044918081399
Customs Tariff No.	85369010000

Approvals / Certificates

Ex-Approvals

Certificate



Logo	Approval	Additional Approval Text	name
AE x ell	AEx Underwriters Laboratories Inc.	UL 60079	20190704- E185892
Ex ell			
€x>	ATEx Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 03 ATEX 1162 U (II 2 G/D Ex e II bzw. I M 2 Ex e I)
IECEx	IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)
Country spe	cific Approvals		0.115
Logo	Approval	Additional Approval Text	Certificate name
CCA	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7730
SP	CSA DEKRA Certification B.V.	C22.2 No. 158	1536069
KEMA	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71- 107687
Ship Approv	als		
Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	38586/A0 BV





DNV GLDet Norske Veritas, Germanischer Lloyd

TAE00001V2



LR Lloyds Register EN 60947

91/20112 (E9)

UL-Approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	cURus	UL 1059	E45172



Underwriters Laboratories Inc.

Counterpart

Compatible products

check

O. IOOIX		
13	Item no.: 2002-511	
	Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 2,50 mm²; gray	
Mar	Item no.: 2002-549	
	Spacer module; modular; e.g., for bridging commoned terminal blocks; gray	
0	Item no.: 2002-552	
štri) do courçuit toloni	Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 2,50 mm²; gray	
0	Item no.: 2002-553	
hand de control to cont	Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 2,50 mm²; gray	



and the same of th	Item no.: 2002-554 Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 2,50 mm²; gray
0	Item no.: 2002-555
trage conting seas	Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 2,50 mm²; gray
Shirin	Item no.: 2002-556
HART.	Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 2,50 mm²; gray
	Item no.: 2002-557
into de coupida belos	Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 2,50 mm²; gray
	Item no.: 2002-558
tra qu corritor solosi	Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 2,50 mm²; gray
0	Item no.: 2002-559
janja galanilo ég ém	Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 2,50 mm²; gray
:itidiidiidii	Item no.: 2002-560
	Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 2,50 mm²; gray
Mis-	Item no.: 2002-611
A.	TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm²; gray
edA	Item no.: 2002-649
000	TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray
1	
4	Item no.: 2009-174
7	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
Insulation stop	
	Item no.: 2002-171
alle	Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray
	Item no.: 2002-172
OOO	Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray
Carrier rail	
Carrier raii	Item no.: 210-112
0	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25
itip de critical recal	mm
	Item no.: 210-113
	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715
1	
	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; 35×8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored
1	Item no.: 210-197 Steel carrier rail; 35×15 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; coppercolored
1/2	Item no.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715
1	Item no.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715
1	Item no.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715
1	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715
Jumper	
J	Item no.: 2002-400 Adjacent jumper for continuous commoning; insulated; 2-way; Nominal current 25 A; light gray
II	Item no.: 2002-402 Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; light gray
F	Item no.: 2002-402/000-005 Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; red
F	Item no.: 2002-402/000-006 Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; blue
M	Item no.: 2002-403 Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; light gray
F	Item no.: 2002-403/000-005 Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; red
F	Item no.: 2002-403/000-006 Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; blue
III	Item no.: 2002-404 Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; light gray



,	Item no.: 2002-404/000-005 Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; red
F	Item no.: 2002-404/000-006 Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; blue
IIII	Item no.: 2002-405 Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; light gray
Philips .	Item no.: 2002-405/000-005 Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; red
THE	Item no.: 2002-405/000-006 Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; blue
TOP	Item no.: 2002-405/011-000 Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray
IIIII	Item no.: 2002-406 Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; light gray
HIH	Item no.: 2002-406/000-005 Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; red
WH	Item no.: 2002-406/000-006 Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; blue
Min	Item no.: 2002-406/020-000 Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray
III	Item no.: 2002-407 Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; light gray
Hili	ltem no.: 2002-407/000-005 Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; red
WH	Item no.: 2002-407/000-006 Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; blue
III	Item no.: 2002-408 Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; light gray





Item no.: 2002-408/000-005

Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; red



Item no.: 2002-408/000-006

Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; blue



Item no.: 2002-409

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; light gray



Item no.: 2002-409/000-005

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; red



Item no.: 2002-409/000-006

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; blue



Item no.: 2002-410

Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; light gray



Item no.: 2002-410/000-005

Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; red



Item no.: 2002-410/000-006

Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; blue



Item no.: 2002-423

Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; light gray



Item no.: 2002-423/000-005

Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; red



Item no.: 2002-423/000-006

Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; blue



Item no.: 2002-433

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 25 A; light gray



Item no.: 2002-434

Push-in type jumper bar; insulated; from 1 to 4; Nominal current 25 A; light gray



Item no.: 2002-435

Push-in type jumper bar; insulated; from 1 to 5; Nominal current 25 A; light gray



Item no.: 2002-436

Push-in type jumper bar; insulated; from 1 to 6; Nominal current 25 A; light gray



	Item no.: 2002-437
1 1	Push-in type jumper bar; insulated; from 1 to 7; Nominal current 25 A; light gray
F	Item no.: 2002-438
Y I	Push-in type jumper bar; insulated; from 1 to 8; Nominal current 25 A; light gray
F	Item no.: 2002-439
I I	Push-in type jumper bar; insulated; from 1 to 9; Nominal current 25 A; light gray
F	Item no.: 2002-440
Y	Push-in type jumper bar; insulated; from 1 to 10; Nominal current 25 A; light gray
高	Item no.: 2002-472
A A	Staggered jumper; insulated; 2-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
-	Item no.: 2002-473
173	Staggered jumper; insulated; 3-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
	Item no.: 2002-473/011-000
	Ready-made staggered jumper; insulated; 2-way (1-3); Nominal current 25 A; with contact lugs
	broken off at the factory and circuit marking; light gray
VIR PLA	Item no.: 2002-474
£ £ 1 £	Staggered jumper; insulated; 4-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
Trong (4	Item no.: 2002-475
21121	Staggered jumper; insulated; 5-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
	Item no.: 2002-475/011-000
	Ready-made staggered jumper; insulated; 3-way (1-3-5); Nominal current 25 A; with contact lugs
	broken off at the factory and circuit marking; light gray
NIVINIA IX	Item no.: 2002-476
\$ \$ \$ \$ \$ \$ \$	Staggered jumper; insulated; 6-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
	Item no.: 2002-477
A STATE OF THE STA	Staggered jumper; insulated; 7-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-
June	mounted terminal blocks; light gray
	Item no.: 2002-477/011-000
Links A. A.	Ready-made staggered jumper; insulated; 1-3-5-7; Nominal current 25 A; with contact lugs broken
	off at the factory and circuit marking; light gray
Service 11	Item no.: 2002-478
1111111	Staggered jumper; insulated; 8-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray
	Item no.: 2002-479
XIX THE LAND OF THE PARTY OF TH	Staggered jumper; insulated; 9-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-
ALD	mounted terminal blocks; light gray
	Item no.: 2002-479/011-000

Ready-made staggered jumper; insulated; 1-3-5-7-9; Nominal current 25 A; with contact lugs broken



off at the factory and circuit marking; light gray

XXIVIAI

Item no.: 2002-480

Staggered jumper; insulated; 10-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

XXIII AND VALLEY

Item no.: 2002-481

Staggered jumper; insulated; 11-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

Item no.: 2002-481/011-000

Ready-made staggered jumper; insulated; 1-3-5-7-9-11; Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

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Item no.: 2002-482

Staggered jumper; insulated; 12-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

YY

Item no.: 2006-499

Step-down jumper; insulated; from 6/4 mm² to 4/2.5/1.5 mm²; Nominal current 32 A; light gray

N

tem no.: 2016-499

Step-down jumper; insulated; from 16/10 mm2 to 10/6/4/2.5 mm2; Nominal current 57 A; light gray

MYY

Item no.: 210-103

Wire commoning chain; insulated; 50 connections; black

 $\gamma \gamma \gamma \gamma$

Item no.: 210-123

Wire commoning chain; insulated; 50 connections

Marking accessories



Item no.: 2002-161

Adaptor



Item no.: 2009-110

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



Item no.: 2009-115

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



Item no.: 2009-115/000-002

 $WMB-In line; for Smart Printer; 1500\ pieces\ on\ roll; stretchable\ 5-5.2\ mm; plain; snap-on\ type; yellow$



Item no.: 2009-115/000-005

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



Item no.: 2009-115/000-006

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.: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
•	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
•	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green
•	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.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white
/	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
/	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red
/	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
/	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
/	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
/	Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green
/	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet
Ĺ	Item no.: 2009-191 Group marker carrier
Ī	Item no.: 2009-192 Group marker carrier



Ī	Item no.: 2009-193 Group marker carrier
1	Item no.: 2009-198 Adaptor
MINITE	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow
	Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red
	Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue
	Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray
	Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange
	Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green
	Item no.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green
	Item no.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet
MARKETTA	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white
1	Item no.: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type; yellow

WMB marking card; as card; not stretchable; plain; snap-on type; red

Item no.: 793-501/000-005





Item no.: 793-501/000-006

WMB marking card; as card; not stretchable; plain; snap-on type; blue

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Item no.: 793-501/000-007

WMB marking card; as card; not stretchable; plain; snap-on type; gray



Item no.: 793-501/000-012

WMB marking card; as card; not stretchable; plain; snap-on type; orange



Item no.: 793-501/000-017

WMB marking card; as card; not stretchable; plain; snap-on type; light green



Item no.: 793-501/000-023

WMB marking card; as card; not stretchable; plain; snap-on type; green



Item no.: 793-501/000-024

WMB marking card; as card; not stretchable; plain; snap-on type; violet



Item no.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; white



Item no.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; yellow



Item no.: 793-5501/000-005

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; red



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; snapon type; blue



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; snapon type; gray



Item no.: 793-5501/000-012

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; orange



Item no.: 793-5501/000-014

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; brown

Item no.: 793-5501/000-017





WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snapon type; green



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; snapon type; light green



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; snapon type; violet

Protective Warning Marker



Item no.: 2002-115

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

Push-In type wire jumper



Item no.: 2009-412

Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black



Item no.: 2009-414

Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black



Item no.: 2009-416

Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black

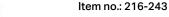
ferrule

Item no.: 216-241

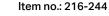
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



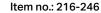
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



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



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



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

Item no.: 216-262

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.: 216-263

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



1	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	
1	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	
End plate		
	Item no.: 2002-1291	
	End and intermediate plate; 0.8 mm thick; gray	
	Item no.: 2002-1292	
	End and intermediate plate; 0.8 mm thick; orange	
Name and Address of the Owner, where	Item no.: 2002-1293	
	Separator plate; 2 mm thick; oversized; gray	
	Item no.: 2002-1294	
1	Separator plate; 2 mm thick; oversized; orange	
	Item no.: 209-190	
	Separator for Ex e/Ex i applications; 3 mm thick; 90 mm wide; orange	
	Item no.: 209-191	
-	Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange	
plug		
	Item no.: 2002-880	
I	Empty component plug housing; 10.4 mm wide; 2-pole; Type 4; gray	
(in)	Item no.: 2002-880/1000-411	
T	Component plug; 2-pole; with diode 1N4007; 10.4 mm wide; Operating temperature 85°C max.; gray	
	Item no.: 2002-880/1000-541	
T	Component plug; 2-pole; LED (red); 10.4 mm wide; Operating temperature 85°C max.; gray	
	Item no.: 2002-880/1000-542	
4	LED module; with red LED; 10.4 mm wide; 30 - 65 V; Operating temperature 85°C max.	
	No. 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	
T	Item no.: 2002-880/1000-836 Component plug; 2-pole; LED (red); 10.4 mm wide; Operating temperature 85°C max.; gray	
1	Component plug, 2-pole, LED (red), 10.4 min wide, Operating temperature 65 C max.; gray	
tools		
1	Item no.: 210-658	
	Operating tool; Blade: 3.5×0.5 mm; with a partially insulated shaft; angled; short	
Δ		

Operating tool; Blade: $3.5 \times 0.5 \text{ mm}$; with a partially insulated shaft

Item no.: 210-720



Downloads Documentation

Additional Information

Technical explanations

Apr 3, 2019

CAD/CAE-Data

CAD data

2D/3D Models 2002-1205

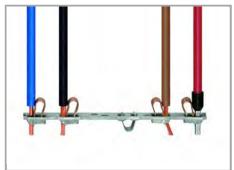
CAE data

EPLAN Data Portal 2002-1205

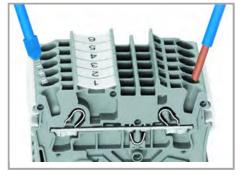
WSCAD Universe 2002-1205

Installation Notes

Conductor termination



All conductor types at a glance



Terminating solid and ferruled conductors via push-in connection.

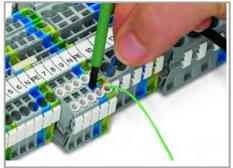


Inserting conductors via push-in termination.

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.







Inserting a conductor via operating tool.

Conductor termination - Insulation stop.

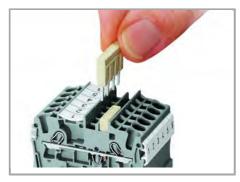
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

The smart feature:

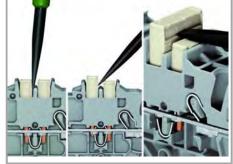
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning





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.

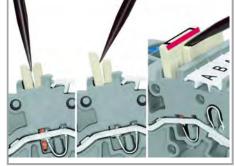
Insert the operating tool between the jumper and and partition wall of the dual jumper slots, then lift up the jumper.

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



Locate red stripes of the staggered jumpers on the inside.



Removing a staggered jumper:

Insert staggered jumper and push down until it hits backstop.

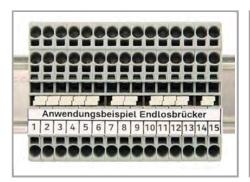
Insert the operating tool between the staggered jumpers, then lift up the jumper.

Commoning

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

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

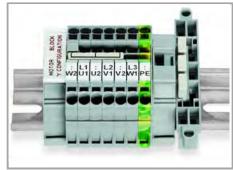




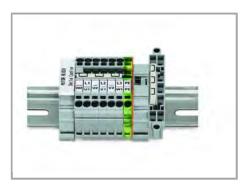
Continuous jumpers (2002 Series) readily connect an endless number of terminal blocks to each other via a single jumper slot. Use the second jumper slot for additional commoning or testing.



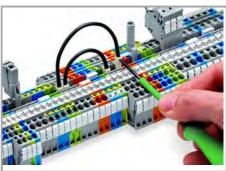
The 1-to-3 adjacent jumper for continuous commoning enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.



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.



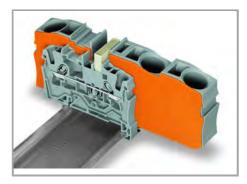
This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



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

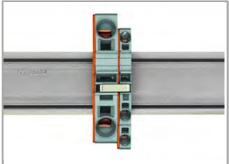
Commoning





Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to

smaller conductors at the distribution point.



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

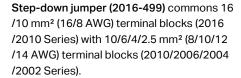


Step-down jumper (2006-499) commons 6 /4 mm² (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm² (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

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.

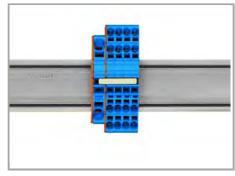








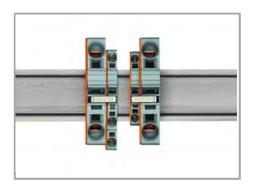
Stepping down via push-in type jumper bar.



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).

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 shall not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Testing

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

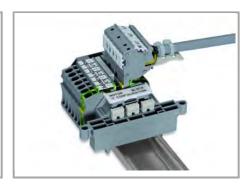




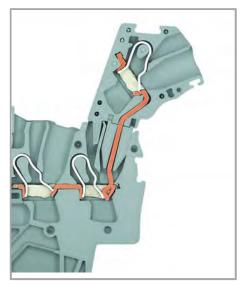
The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



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



L-type test plug module – cross-sectional view of contacts



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

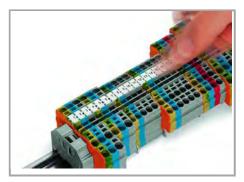


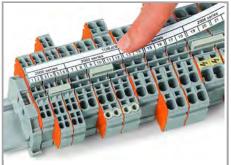
Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$









Snapping WMB Inline markers into marker slots.

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!





Using marker carriers for marking strips (2002-161) in jumper slots.





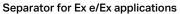
Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



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





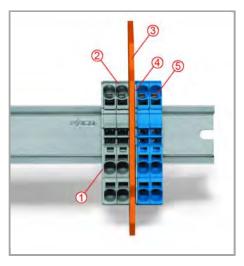


Ex e II/Ex i terminal strip

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

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

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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$