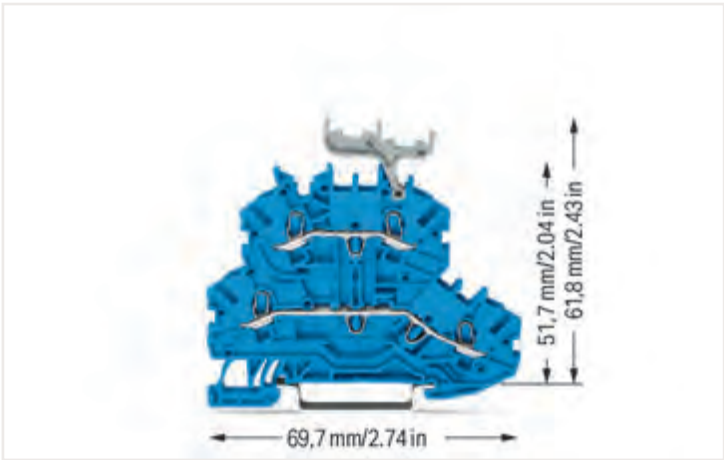
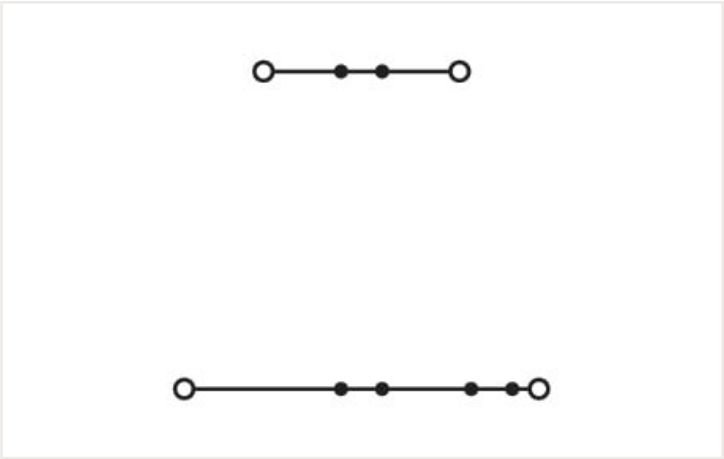
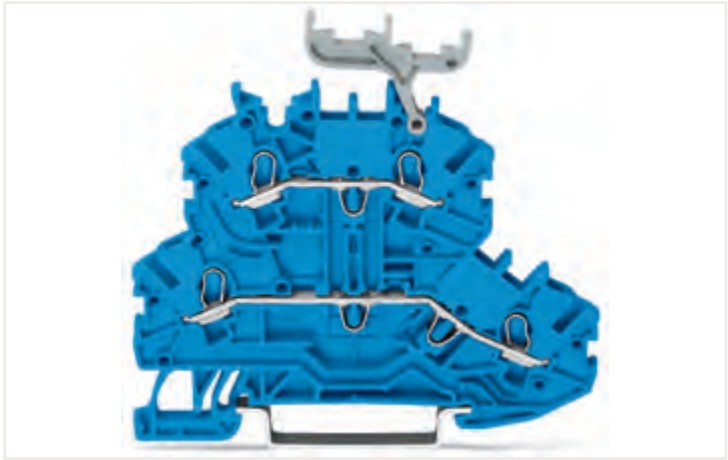


|: 2000-2234

Double-deck terminal block; Through/through terminal block; N/N; with marker carrier; suitable for Ex i applications; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue



: ■ blue



Electrical data			
Ratings per IEC/EN		Ratings per UL	
Ratings per	IEC/EN 60947-7-1	Approvals per	UL 1059
Nominal voltage (III/3)	500 V	Rated voltage UL (Use Group B)	300 V
Rated impulse voltage (III/3)	6 kV	Rated current UL (Use Group B)	15 A
Rated current	13.5 A	Rated voltage UL (Use Group C)	300 V
Rated current 2	16 A	Rated current UL (Use Group C)	15 A
Legend (ratings)	(III / 3) Δ Overvoltage category III / Pollution degree 3		
Ratings per CSA		Ex information	
Approvals per	CSA 22.2 No 158	Reference hazardous areas	See Downloads – Documentation – Additional Information: Technical Section; Technical explanations
Rated voltage CSA (Use Group B)	600 V	Ratings per	ATEX: PTB 11 ATEX 1041 U / IECEx: PTB 11.0093U (Ex eb IIC Gb)
Rated current CSA (Use Group B)	10 A	Rated voltage EN (Ex e II)	350 V
Rated voltage CSA (Use Group C)	600 V	Rated current (Ex e II)	13 A
Rated current CSA (Use Group C)	10 A	Rated current (Ex e II) with jumper	12 A

Power loss

Power loss, per pole (potential)	0.4338 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

Connection data

Total number of connection points	4
Total number of potentials	2
Number of levels	2
Number of jumper slots	4

Connection 1

Connection technology	Push-in CAGE CLAMP®
Number of connection points	2
Actuation type	Operating tool
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 insulated ferrule	0.14 ... 0.75 mm² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm² / 20 ... 18 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Wiring direction	Front-entry wiring

Connection 2

Number of connection points 2	2
-------------------------------	---

Physical data

Width	3.5 mm / 0.138 inches
Height	69.7 mm / 2.744 inches
Depth from upper-edge of DIN-rail	61.8 mm / 2.433 inches

Mechanical data

Potential marking	N/N
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data

Note (material data)	Information on material data can be found here
Color	blue
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.161 MJ
Weight	7.7 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)	50 Stück
Packaging type	Box
Country of origin VKOrg Germany	CN
GTIN	4055143267724
Customs tariff number VKOrg Germany	85369010000

Approvals and certificates

Ex-Approvals



AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN 60079	PTB 11 ATEX 1041 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
CCCEX CQST/CNEX	CNCA-C23-01	2020312313000182
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	RU C-DE.AM02. B.00127/19 (Ex e IIC Gb U)
IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 11.0093U (Ex e IIC Gb or Ex e I Mb)

Country specific Approvals



CCA DEKRA Certification B.V.	EN 60947	71-102841
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7671
CSA DEKRA Certification B.V.	C22.2	2130762

UL-Approvals



UL Underwriters Laboratories Inc.	UL 1059	E45172
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Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2000-2234	↓

Documentation

Additional Information		
Technical Section	pdf 2142.18 KB	↓

Bid Text			
2000-2234	19.02.2019	xml 3.80 KB	↓
2000-2234	07.08.2018	docx 14.54 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2000-2234	↓

CAE data	
EPLAN Data Portal 2000-2234	↓
WSCAD Universe 2000-2234	↓
ZUKEN Portal 2000-2234	↓

1 Compatible products

1.1 Required accessories

1.1.1 End plate

1.1.1.1 End plate



[: 2000-2291](#)
End plate; 0.7 mm thick; gray

[: 2000-2292](#)
End plate; 0.7 mm thick; orange

1.2 Optional accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored



: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored



: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored



: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored



: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 18 mm; silver-colored



: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 25 mm; silver-colored



: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored

1.2.3.1 Mounting accessories



: 709-169
Cover carrier; Type 3; gray



: 709-156
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.4 Jumper

1.2.2.1 Ferrule



: 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



: 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



: 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

1.2.4.1 Jumper



: 2000-406/020-000
Delta jumper; insulated; light gray



: 2000-410/000-006
Jumper; 10-way; insulated; blue



: 2000-410
Jumper; 10-way; insulated; light gray



: 2000-410/000-005
Jumper; 10-way; insulated; red



: 2000-402/000-006
Jumper; 2-way; insulated; blue



: 2000-402
Jumper; 2-way; insulated; light gray



: 2000-402/000-005
Jumper; 2-way; insulated; red



: 2000-402/000-018
Jumper; 2-way; insulated; yellow-green



: 2000-403/000-006
Jumper; 3-way; insulated; blue



: 2000-403
Jumper; 3-way; insulated; light gray



: 2000-403/000-005
Jumper; 3-way; insulated; red



: 2000-404/000-006
Jumper; 4-way; insulated; blue



: 2000-404
Jumper; 4-way; insulated; light gray



: 2000-404/000-005
Jumper; 4-way; insulated; red



: 2000-405/000-006
Jumper; 5-way; insulated; blue



: 2000-405
Jumper; 5-way; insulated; light gray



: 2000-405/000-005
Jumper; 5-way; insulated; red



: 2000-406/000-006
Jumper; 6-way; insulated; blue



: 2000-406
Jumper; 6-way; insulated; light gray



: 2000-406/000-005
Jumper; 6-way; insulated; red



: 2000-407/000-006
Jumper; 7-way; insulated; blue



: 2000-407
Jumper; 7-way; insulated; light gray



: 2000-407/000-005
Jumper; 7-way; insulated; red



: 2000-408/000-006
Jumper; 8-way; insulated; blue



: 2000-408
Jumper; 8-way; insulated; light gray



: 2000-408/000-005
Jumper; 8-way; insulated; red



: 2000-409/000-006
Jumper; 9-way; insulated; blue



: 2000-409
Jumper; 9-way; insulated; light gray

1.2.4.1 Jumper



: 2000-409/000-005
Jumper; 9-way; insulated; red



: 2000-440
Jumper; from 1 to 10; insulated; light gray



: 2000-433/000-006
Jumper; from 1 to 3; insulated; blue



: 2000-433
Jumper; from 1 to 3; insulated; light gray



: 2000-433/000-005
Jumper; from 1 to 3; insulated; red



: 2000-434
Jumper; from 1 to 4; insulated; light gray



: 2000-435
Jumper; from 1 to 5; insulated; light gray



: 2000-436
Jumper; from 1 to 6; insulated; light gray

1.2.5 Marking

1.2.5.1 Marker



: 793-3501
WMB marking card; as card; plain; snap-on type; white



: 2009-113/000-006
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue



: 2009-113/000-007
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray



: 2009-113/000-023
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green



: 2009-113/000-017
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green



: 2009-113/000-012
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange



: 2009-113/000-005
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red



: 2009-113/000-024
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet



: 2009-113
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white



: 2009-113/000-002
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

1.2.5.2 Marking strip



: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.6 Protective warning marker

1.2.6.1 Cover



: 2000-115
Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

1.2.7 Push-in type wire jumper

1.2.7.1 Jumper



:2009-404

Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray



:2009-406

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray



:2009-402

Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

1.2.8 Test and measurement

1.2.8.1 Testing accessories



:2009-174

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



:2009-182

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.2.9 Tool

1.2.9.1 Operating tool



:210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



:210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



:210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation notes

Conductor termination



All conductor types at a glance



Push-in termination of solid and ferruled conductors



Inserting a conductor via push-in termination:
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.



Inserting a conductor via operating tool:
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.
Advantage:
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.



Conductor termination – insulation stop

Commoning

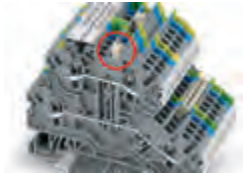


Removing a push-in type jumper bar: Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper. Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



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

Commoning



Commoning two levels via double-deck vertical jumper (2000-492).

Marking



Snapping WMB Inline markers into marker slots.



Double-Deck Terminal Blocks
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.