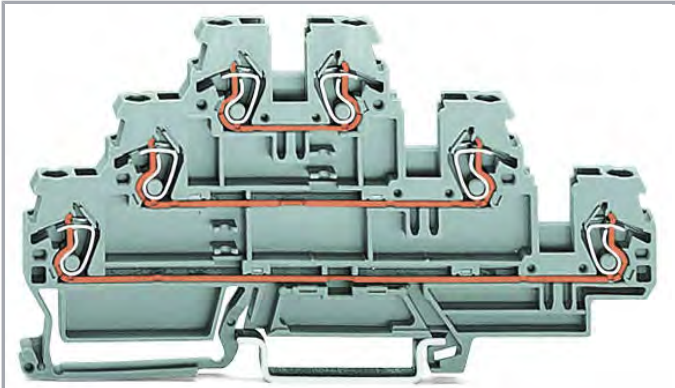


Data sheet | Item number: 870-551

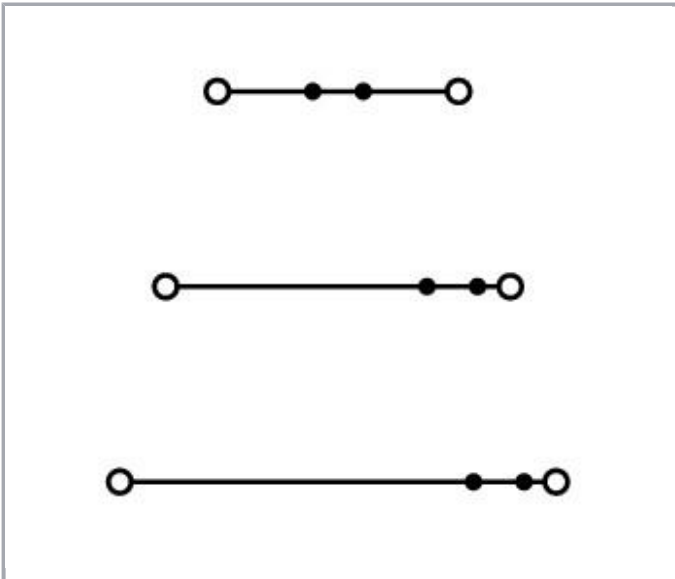
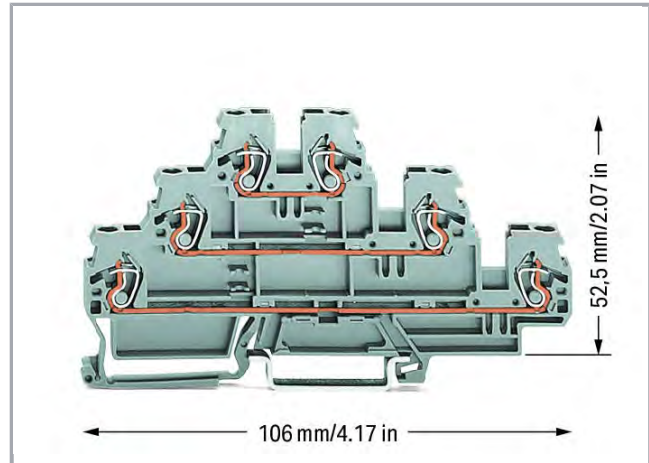
Triple-deck terminal block; Through/through/through terminal block; L/L/L;
for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; gray



RoHS
Compliant



Color: ■



Item description

Safety information 1:

Max. insulation diameter: 4.4 mm

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



Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated current	24 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0,08 ... 2,5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0,08 ... 4 mm ² / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inch
Total number of connection points	6
Total number of potentials	3
Number of levels	3
Wiring type	Front-entry wiring

Geometrical Data

Width	5 mm / 0.197 inch
Height from upper-edge of DIN-rail	52,5 mm / 2.067 inch
Depth	106 mm / 4.173 inch

Mechanical data

Design	horizontal type
Mounting type	DIN-35 rail
Potential marking	L/L/L
Marking level	Side marking

Material Data

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

Fire load	0.278 MJ
Weight	17.4 g

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4045454129019
Customs tariff number	85369010000

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7468
	CCA DEKRA Certification B.V.	EN 60947	2189801.01

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	20- HG1941090- PDA
	BV Bureau Veritas S.A.	EN 60947	07436/E0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	LR Lloyds Register	EN 60947	91/20112 (E9)

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus UL International Germany GmbH	UL 1059	20160928-E45172

Counterpart

Compatible products

Marking accessories

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

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

**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

**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

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



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



Item no.: 709-177

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent



Item no.: 709-178

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white



Item no.: 709-196

Marking strips; for laser printer; translucent



Item no.: 709-198

Marking strips; white



Item no.: 793-501

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



Item no.: 793-501/000-002

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



Item no.: 793-501/000-005

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



Item no.: 793-501/000-006

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



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

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



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; snap-on 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; snap-on 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; snap-on 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; snap-on 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; snap-on 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; snap-on type; orange



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; snap-on 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; snap-on 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; snap-on type; violet

End plate



Item no.: 870-568

End and intermediate plate; 2 mm thick; gray

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



Item no.: 870-569
End and intermediate plate; 2 mm thick; orange

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.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715



Item no.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715



Item no.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715



Item no.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

tools



Item no.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short



Item no.: 210-658
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short



Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

ferrule



Item no.: 216-121
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated



Item no.: 216-122
Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated

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


Item no.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated


Item no.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated


Item no.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated


Item no.: 216-132

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated


Item no.: 216-221

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white


Item no.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray


Item no.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red


Item no.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item no.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow


Item no.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

Insulation stop

Item no.: 280-470

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white


Item no.: 280-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray


Item no.: 280-472

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip

Jumper

Item no.: 709-110

Wire commoning chain; insulated; 4 connections; 3 x 110 mm; black


Item no.: 709-111

Wire commoning chain; insulated; 3 connections; 2 x 120 mm; black


Item no.: 709-112

Wire commoning chain; insulated; 3 connections; 2 x 170 mm; black


Item no.: 870-402

Push-in type jumper bar; insulated; 2-way; Nominal current 18 A; light gray

Item no.: 870-403

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

	Push-in type jumper bar; insulated; 3-way; Nominal current 18 A; light gray
	Item no.: 870-404 Push-in type jumper bar; insulated; 4-way; Nominal current 18 A; light gray
	Item no.: 870-405 Push-in type jumper bar; insulated; 5-way; Nominal current 18 A; light gray
	Item no.: 870-405/011-000 Ready-made push-in type jumper bar; insulated; 3-way (1-3-5); Nominal current 18 A; light gray
	Item no.: 870-406 Push-in type jumper bar; insulated; 6-way; Nominal current 18 A; light gray
	Item no.: 870-407 Push-in type jumper bar; insulated; 7-way; Nominal current 18 A; light gray
	Item no.: 870-407/011-000 Ready-made push-in type jumper bar; insulated; 1-3-5-7; Nominal current 18 A; light gray
	Item no.: 870-408 Push-in type jumper bar; insulated; 8-way; Nominal current 18 A; light gray
	Item no.: 870-409 Push-in type jumper bar; insulated; 9-way; Nominal current 18 A; light gray
	Item no.: 870-409/011-000 Ready-made push-in type jumper bar; insulated; 1-3-5-7-9; Nominal current 18 A; light gray
	Item no.: 870-410 Push-in type jumper bar; insulated; 10-way; Nominal current 18 A; light gray
	Item no.: 870-433 Push-in type jumper bar; insulated; from 1 to 3; Nominal current 18 A; light gray
	Item no.: 870-434 Push-in type jumper bar; insulated; from 1 to 4; Nominal current 18 A; light gray
	Item no.: 870-435 Push-in type jumper bar; insulated; from 1 to 5; Nominal current 18 A; light gray
	Item no.: 870-436 Push-in type jumper bar; insulated; from 1 to 6; Nominal current 18 A; light gray
	Item no.: 870-437 Push-in type jumper bar; insulated; from 1 to 7; Nominal current 18 A; light gray
	Item no.: 870-438 Push-in type jumper bar; insulated; from 1 to 8; Nominal current 18 A; light gray

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



Item no.: 870-439

Push-in type jumper bar; insulated; from 1 to 9; Nominal current 18 A; light gray



Item no.: 870-440

Push-in type jumper bar; insulated; from 1 to 10; Nominal current 18 A; light gray

assembling



Item no.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray



Item no.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item no.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

General accessories



Item no.: 870-182

Adaptor; gray



Item no.: 870-183

Adaptor; gray



Item no.: 870-184

Adaptor; gray



Item no.: 870-425

Tap-off module; with anti-rotation protection; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray



Item no.: 870-426

Tap-off module; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray



Item no.: 870-427

Spacer module; modular; bridging commoned terminal blocks; gray

Protective Warning Marker



Item no.: 280-405

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

Downloads

Documentation

Additional Information

Technical explanations

Apr 3, 2019

CAD/CAE-Data

CAD data

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

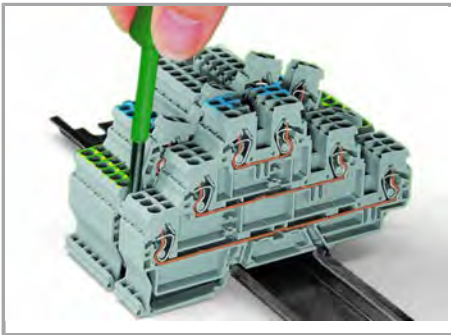
2D/3D Models 870-551

CAE data

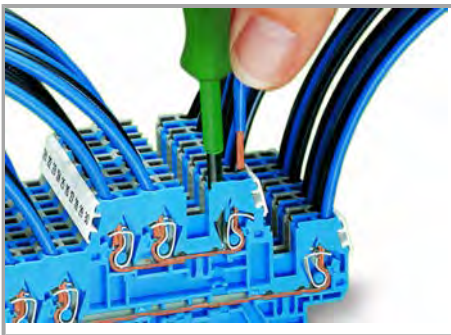
EPLAN Data Portal 870-551

WSCAD Universe 870-551

Installation Notes



Removing a terminal block from the assembly.



CAGE CLAMP® connection

Inserting a conductor (0.08 ... 4 mm² "f-st").

Jumpered

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



Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side, until installed.

Push-in type jumper bars 1 – 3 – 5 – 7 or
1 – 4 – 7

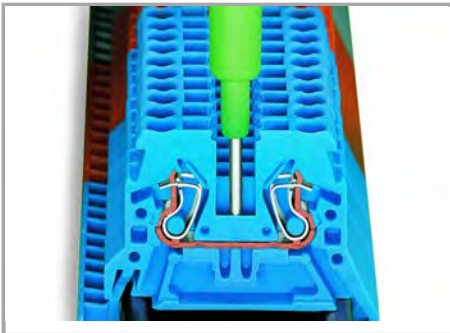
upon request



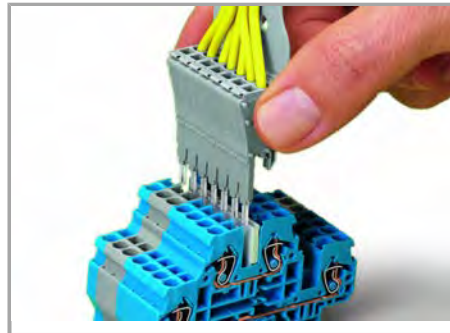
Commoning with push-in type jumper bars:

Two parallel jumper slots are
accommodated in one terminal block.

Testing



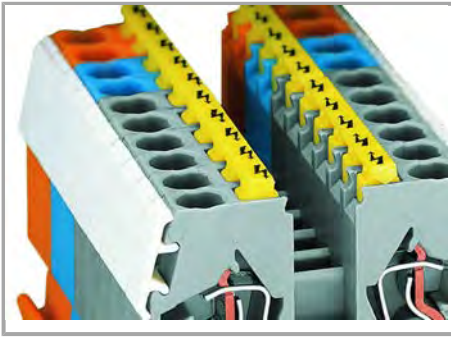
Testing with phase testing device, also
possible with single-pole voltage tester.



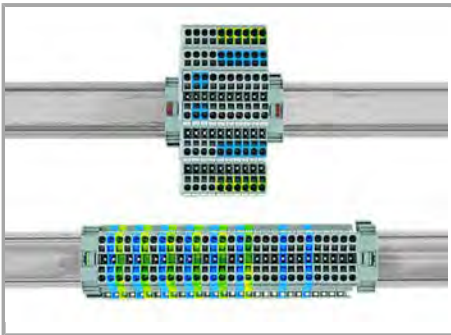
Testing is also possible using a pre-wired
tap-off module assembly in the very same
way as test plugs.

Cover

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



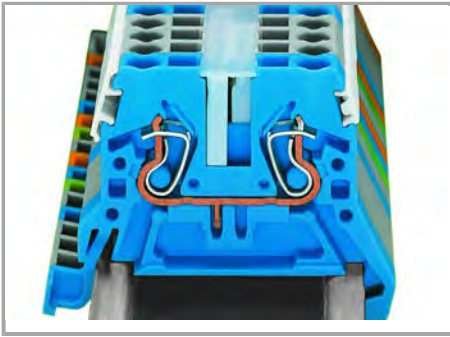
Protective warning markers (280-405), with a black high-voltage symbol



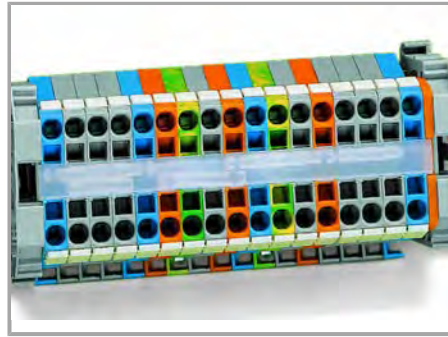
Use 67 % less rail space with triple-deck terminal blocks.

Marking

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



WMB markers in Mini-WSB marker slots



Translucent marking strip (709-196) – jumpers below may be visible.



In addition to the plastic marker strips, group marker carriers are now available for the WMB and WSB marking systems. They can be mounted parallel to a push-in type jumper bar via open jumper contact slot. It assists with viewing marker slots on the side of the terminal block. Group marker carriers are available in 5 mm/0.197 inch, 10 mm/0.394 inch and 15 mm/0.591 inch widths.

Marking strip, translucent

Mini-WSB markers

Notice:

Marker carriers are not suitable for ground conductor terminal blocks and double-potential terminal blocks as they have no jumper contact slots.

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