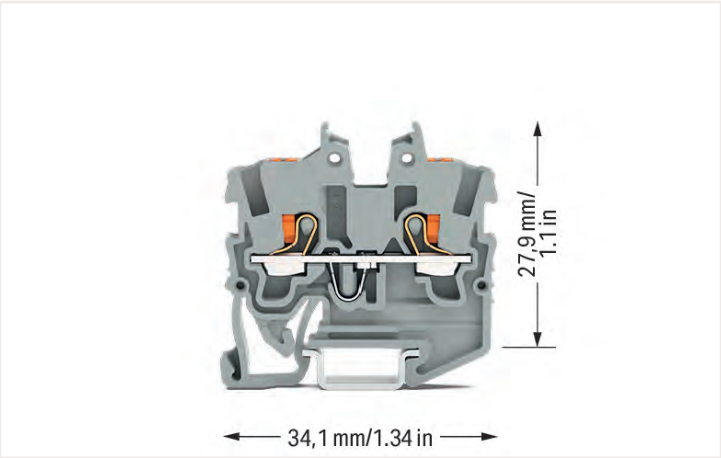
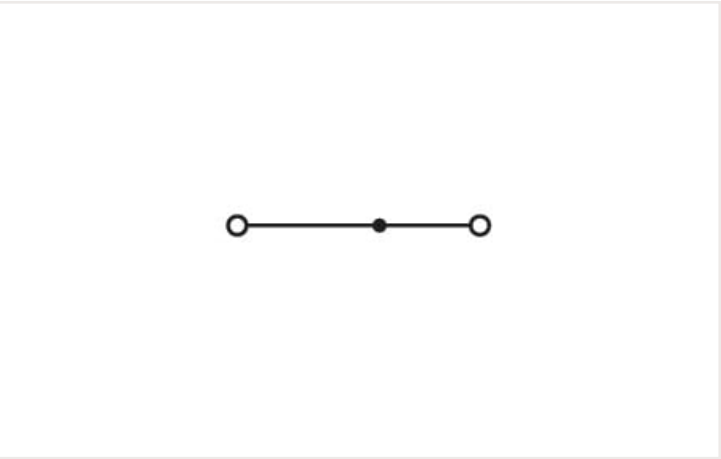
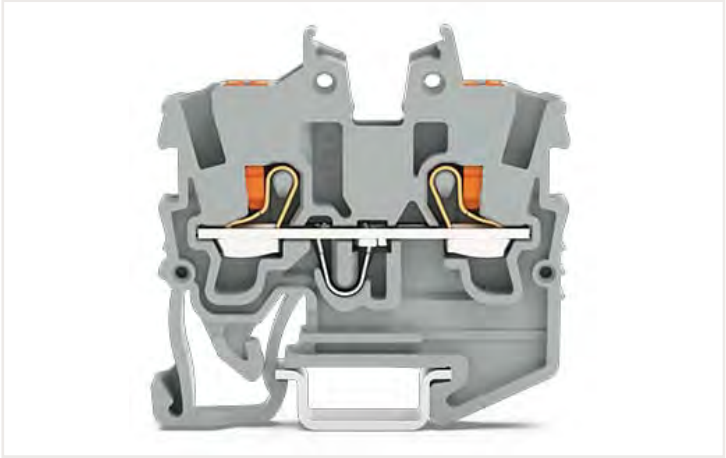


Data sheet | Item number: 2250-1201
2-conductor miniature through terminal block; with push-button; 1 mm²; with test port; side and center marking; for DIN-15 rail; Push-in CAGE CLAMP®; 1,00 mm²; gray



Color: gray



Similar to illustration

Electrical data			
Ratings per IEC/EN		Ratings per IEC/EN 2	
Ratings per	IEC/EN 60947-7-1	Rated current 2	17.5 A
Nominal voltage (III/3)	500 V		
Rated impulse voltage (III/3)	6 kV		
Rated current	13.5 A		
Legend (ratings)	(III / 3) Δ Overvoltage category III / Pollution degree 3		

Ratings per UL		Ratings per CSA	
Approvals per	UL 1059	Approvals per	CSA 22.2 No 158
Rated voltage UL (Use Group B)	300 V	Rated voltage CSA (Use Group B)	300 V
Rated current UL (Use Group B)	10 A	Rated current CSA (Use Group B)	10 A
Rated voltage UL (Use Group C)	300 V	Rated voltage CSA (Use Group C)	300 V
Rated current UL (Use Group C)	10 A	Rated current CSA (Use Group C)	10 A

Ex information

Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
Ratings per	ATEX: PTB 19 ATEX 1019 U / IECEx: PTB 19.0050U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	352 V
Rated current (Ex e II)	13.5 A
Rated current (Ex e II) with jumper	12 A

Power loss

Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

Connection data

Connection points	2
Total number of potentials	1
Number of levels	1
Number of jumper slots	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Connectable conductor materials	Copper
Nominal cross-section	1 mm ²
Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm ² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 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

Physical data

Width	3.5 mm / 0.138 inches
Height	34.1 mm / 1.343 inches
Depth from upper-edge of DIN-rail	27.9 mm / 1.098 inches

Mechanical Data

Mounting type	DIN-15 rail
Marking level	Center/side marking

Material Data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.046 MJ
Weight	2.5 g

Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

Commercial data

ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143965200
Customs tariff number	85369010000

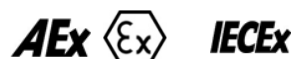
Approvals and certificates

General approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7839
CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840
CSA CSA	C22.2 No. 158	80034182
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-113930
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-113957

Approvals for hazardous areas



Approval	Standard	Certificate name
AEx Underwriters Laboratories Inc.	UL 60079	E185892 (AEx eb IIC resp. Ex eb IIC)
ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 19 ATEX 1019 U (II 2G Ex eb IIC Gb or I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000289 (Ex eb IIC Gb, Ex eb I Mb)
IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 19.0050U (Ex eb IIC Gb or EX eb I Mb)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 22.0014 U

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2250-1201



Documentation

Additional Information

Technical Section

pdf
2142.18 KB



CAD/CAE-Data

CAD data

2D/3D Models
2250-1201



CAE data

EPLAN Data Portal
2250-1201



WSCAD Universe
2250-1201



ZUKEN Portal
2250-1201



1 Compatible products

1.1 Required accessories

1.1.1 End plate

1.1.1.1 End plate



[Item no.: 2050-1291](#)

End and intermediate plate; 1.1 mm thick; gray

1.2 Optional accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



[Item no.: 210-296](#)

Aluminum carrier rail; 15 x 5.5 mm; 1 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



[Item no.: 210-111](#)

Steel carrier rail; 15 x 5.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; silver-colored



[Item no.: 210-295](#)

Steel carrier rail; 15 x 5.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.2.2 Ferrule

1.2.2.1 Ferrule



[Item no.: 216-241](#)

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



[Item no.: 216-242](#)

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



[Item no.: 216-243](#)

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

1.2.3 Installation

1.2.3.1 Cover



Item no.: 709-156

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.3.2 Cover carrier



Item no.: 709-169

Cover carrier; Type 3; gray

1.2.3.3 Mounting accessories



Item no.: 249-101

Screwless end stop; 6 mm wide; for WMB markers; gray

1.2.4 Jumper

1.2.4.1 Jumper



Item no.: 2000-406/020-000

Delta jumper; insulated; light gray



Item no.: 2000-410/000-006

Jumper; 10-way; insulated; blue



Item no.: 2000-410

Jumper; 10-way; insulated; light gray



Item no.: 2000-410/000-005

Jumper; 10-way; insulated; red



Item no.: 2000-402/000-006

Jumper; 2-way; insulated; blue



Item no.: 2000-402

Jumper; 2-way; insulated; light gray



Item no.: 2000-402/000-005

Jumper; 2-way; insulated; red



Item no.: 2000-402/000-018

Jumper; 2-way; insulated; yellow-green



Item no.: 2000-403/000-006

Jumper; 3-way; insulated; blue



Item no.: 2000-403

Jumper; 3-way; insulated; light gray



Item no.: 2000-403/000-005

Jumper; 3-way; insulated; red



Item no.: 2000-404/000-006

Jumper; 4-way; insulated; blue



Item no.: 2000-404

Jumper; 4-way; insulated; light gray



Item no.: 2000-404/000-005

Jumper; 4-way; insulated; red



Item no.: 2000-405/000-006

Jumper; 5-way; insulated; blue



Item no.: 2000-405

Jumper; 5-way; insulated; light gray



Item no.: 2000-405/000-005

Jumper; 5-way; insulated; red



Item no.: 2000-406/000-006

Jumper; 6-way; insulated; blue



Item no.: 2000-406

Jumper; 6-way; insulated; light gray



Item no.: 2000-406/000-005

Jumper; 6-way; insulated; red



Item no.: 2000-407/000-006

Jumper; 7-way; insulated; blue



Item no.: 2000-407

Jumper; 7-way; insulated; light gray



Item no.: 2000-407/000-005

Jumper; 7-way; insulated; red



Item no.: 2000-408/000-006

Jumper; 8-way; insulated; blue



Item no.: 2000-408

Jumper; 8-way; insulated; light gray



Item no.: 2000-408/000-005

Jumper; 8-way; insulated; red



Item no.: 2000-409/000-006

Jumper; 9-way; insulated; blue



Item no.: 2000-409

Jumper; 9-way; insulated; light gray



Item no.: 2000-409/000-005

Jumper; 9-way; insulated; red



Item no.: 2000-440

Jumper; from 1 to 10; insulated; light gray



Item no.: 2000-433/000-006

Jumper; from 1 to 3; insulated; blue



Item no.: 2000-433

Jumper; from 1 to 3; insulated; light gray



Item no.: 2000-433/000-005

Jumper; from 1 to 3; insulated; red



Item no.: 2000-434

Jumper; from 1 to 4; insulated; light gray



Item no.: 2000-435

Jumper; from 1 to 5; insulated; light gray



Item no.: 2000-436

Jumper; from 1 to 6; insulated; light gray

1.2.4.1 Jumper



Item no.: 2000-437

Jumper; from 1 to 7; insulated; light gray

Item no.: 2000-438

Jumper; from 1 to 8; insulated; light gray

Item no.: 2000-439

Jumper; from 1 to 9; insulated; light gray

Item no.: 2000-405/011-000

Star point jumper; 3-way; insulated; light gray



Item no.: 210-103

Wire commoning chain; insulated; black

Item no.: 210-123

Wire commoning chain; insulated; blue

1.2.5 Marking

1.2.5.1 Group marker carrier



Item no.: 2009-191

Group marker carrier; gray

1.2.5.2 Marker



Item no.: 793-3501

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

Item no.: 2009-113/000-006

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

Item no.: 2009-113/000-007

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

Item no.: 2009-113/000-023

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



Item no.: 2009-113/000-017

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

Item no.: 2009-113/000-012

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

Item no.: 2009-113/000-005

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

Item no.: 2009-113/000-024

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



Item no.: 2009-113

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

Item no.: 2009-113/000-002

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

1.2.5.3 Marking strip



Item no.: 2009-110

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

1.2.6 Push-in type wire jumper

1.2.6.1 Jumper



Item no.: 2009-404

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

Item no.: 2009-406

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

Item no.: 2009-402

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

1.2.7 Test and measurement

1.2.7.1 Testing accessories



Item no.: 2009-174

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



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red



Item no.: 2009-182

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

1.2.8 Tool

1.2.8.1 Operating tool



Item no.: 210-719

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



Item no.: 210-648

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



Item no.: 210-647

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

Installation notes

Installation



Conductor termination

Insert solid conductors via push-in termination.

Insert ferruled conductors via push-in termination.

Insert fine-stranded conductors via operating tool.

Remove all conductors via operating tool.

Commoning

Insert a delta jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).

Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (delta jumper) (example shows terminal blocks with push-buttons)

Insert a star point jumper and push down until it hits the backstop (example shows terminal blocks with push-buttons).

Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (example shows terminal blocks with push-buttons)

Testing

Testing with a 2 mm Ø 210-136 Test Plug
(max. 42 V).

Marking

Snapping a marking strip into the marker
slot.

Snapping a marking strip (2009-110) into
a marker slot.