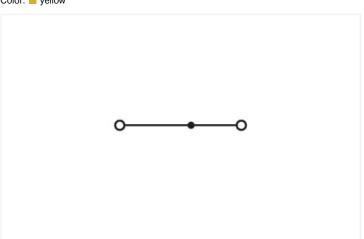
2-conductor miniature through terminal block; with operating slots; 1 mm²; with snap-in mounting foot; side and center marking; with test port; Push-in CAGE CLAMP®; 1,00 mm²; yellow

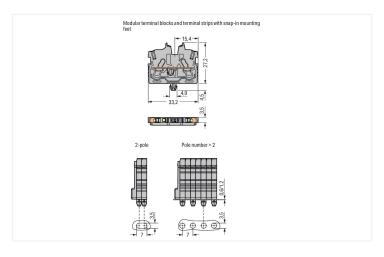


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Similar to illustration

Electrical data			
Ratings per	IEC/	'EN 60998-	2-2
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	13.5 A	-	-
Current at conductor cross-section (max.) mm ²	17.5 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	-
Rated current	10 A	-	-
Nation Garrent	1071		

Approvals per	CSA 22.2 No 158		
Use group	В	С	D
Rated voltage	300 V	300 V	-
Rated current	10 A	10 A	-

Ex information	
Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
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

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Connection data			
Connection points	2	Connection 1	
Total number of potentials	1	Connection technology	Push-in CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
Number of jumper slots	1	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

Physical data	
Width	3.5 mm / 0.138 inches
Height from the surface	27.2 mm / 1.071 inches
Depth	33.2 mm / 1.307 inches

Mechanical data	
Mounting type	Snap-in foot
Marking level	Center/side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	yellow
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.047 MJ
Weight	2.4 g

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Environmental requirements

Processing temperature $-35 \dots +85 \, ^{\circ}\text{C}$ Continuous operating temperature $-60 \dots +105 \, ^{\circ}\text{C}$

Commercial data

 PU (SPU)
 100 pcs

 Country of origin
 IN

 GTIN
 4066966312720

 Customs tariff number
 85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2050-316



Documentation

Technical Section

Additional Information

pdf

2240.62 KB



CAD/CAE-Data

CAD data

2D/3D Models 2050-316



1 Compatible Products

1.1 System counterpart

1.1.1 Through terminal block



Item No.: 2050-321

2-conductor miniature through terminal block; with operating slots; 1 mm²; Center terminal block without snap-in mounting foot, without mounting flange; side and center marking; with test port; Push-in CA-GE CLAMP®; 1,00 mm²; gray

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1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



Item No.: 2050-391

End plate; for terminal blocks with snap-in mounting foot; 3.4 mm thick; gray

1.3 Optional Accessories

1.3.1 DIN-rail

1.3.1.1 Mounting accessories



Item No.: 210-154

Aluminum carrier rail; 1000 mm long; 18 mm wide; 7 mm high; silver-colored

1.3.2 Ferrule

1.3.2.1 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



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



1.3.3 Installation

1.3.3.1 Mounting accessories





Item No.: 209-137

Mounting adapter; can be used as end stop; 6.5 mm wide; gray

Item No.: 209-120

Mounting foot; can be snapped on terminal blocks with snap-in mounting foot; for mounting on relay-modules; 6.4 mm wide;

1.3.4 Jumper

1.3.4.1 Jumper





Item No.: 2000-410/000-005

Item No.: 2000-406/020-000 Delta jumper; insulated; light gray



Item No.: 2000-410/000-006

Jumper; 10-way; insulated; blue

Jumper; 10-way; insulated; light gray



Jumper; 10-way; insulated; red

Jumper; 2-way; insulated; blue



Jumper; 2-way; insulated; light gray



Item No.: 2000-402/000-005 Jumper; 2-way; insulated; red

Item No.: 2000-410

Item No.: 2000-402/000-018 Jumper; 2-way; insulated; yellow-green

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1.3.4.1 Jumper

W

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

Item No.: 2000-405/000-006

Item No.: 2000-405 Jumper; 5-way; insulated; light gray

Jumper; 4-way; insulated; red

Jumper; 5-way; insulated; blue

Item No.: 2000-405/000-005 Jumper; 5-way; insulated; red

Item No.: 2000-406/000-006

Item No.: 2000-406

Item No.: 2000-406/000-005

Jumper; 6-way; insulated; blue

Jumper; 6-way; insulated; light gray

Jumper; 6-way; insulated; red

W

Jumper; 7-way; insulated; blue

Item No.: 2000-408

Item No.: 2000-407/000-006

Item No.: 2000-407 Jumper; 7-way; insulated; light gray Item No.: 2000-407/000-005

Item No.: 2000-408/000-006



Jumper; 7-way; insulated; red

Jumper; 8-way; insulated; blue





Item No.: 2000-408/000-005

Item No.: 2000-409/000-006

Item No.: 2000-409

Jumper; 8-way; insulated; light gray

Jumper; 8-way; insulated; red

Jumper; 9-way; insulated; blue

Jumper; 9-way; insulated; light gray





Item No.: 2000-440

Item No.: 2000-433

Item No.: 2000-433/000-006 Item No.: 2000-409/000-005 Jumper; 9-way; insulated; red Jumper; from 1 to 10; insulated; light gray

Jumper; from 1 to 3; insulated; blue

Jumper; from 1 to 3; insulated; light gray



Item No.: 2000-433/000-005

Jumper; from 1 to 3; insulated; red 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



Item No.: 2000-437

Jumper; from 1 to 7; insulated; light gray

Item No.: 2000-434

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

1.3.5 Marking

1.3.5.1 Group marker carrier



Item No.: 2009-191

Group marker carrier; gray

1.3.5.2 Marker

Item No.: 793-3501

on type; white



WMB marking card; as card; plain; snap-

A

WMB-Inline; for Smart Printer; 2300 pie-

WMB-Inline; for Smart Printer; 2300 pie-

ces on roll; plain; snap-on type; blue

Item No.: 2009-113/000-007

Item No.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green



Item No.: 2009-113/000-006

ces on roll; plain; snap-on type; gray

A

Item No.: 2009-113/000-017

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

ces on roll; plain; snap-on type; orange

Item No.: 2009-113/000-012

Item No.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red

WMB-Inline; for Smart Printer; 2300 pie-

Item No.: 2009-113/000-024

WMB-Inline; for Smart Printer; 2300 pie-

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

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1.3.5.3 Marking strip

Item No.: 2009-110

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

1.3.6 Protective warning marker

1.3.6.1 Cover



Item No.: 2000-115

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

1.3.7 Push-in type wire jumper

1.3.7.1 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

1.3.8 Test and measurement

1.3.8.1 Testing accessories

Item No.: 2009-174

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

<u>Item No.: 210-136</u>

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

1.3.9 Tool

1.3.9.1 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

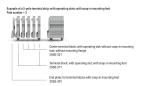
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

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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 \emptyset 210-136 Test Plug (max. 42 V).

Installation



Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto aluminum rail.



Snapping a mounting foot (209-120) to a terminal strip with snap-in mounting feet.

(Distance between mounting feet: approx. 20 ... 25 mm)



Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (example shows terminal blocks with push-buttons)

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Marking







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

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