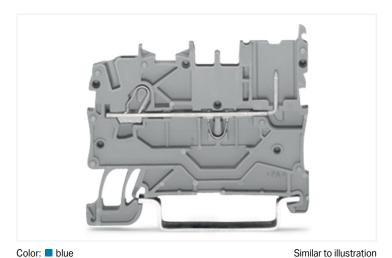
1-conductor/1-pin carrier terminal block; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue







Through terminal block, 2020 Series, operating tool

Our through terminal block (item number 2020-1204) makes connections quick and easy. Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors for the perfect solution. Variable wiring systems make pre-assembly easy, which leads to considerable time and cost savings in production, installation, operation, and maintenance. This pluggable rail-mount terminal block has a rated voltage of 500 V and can handle currents up to 13.5 A. Ensure that the strip lengths are between 9 mm and 11 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with Push-in CAGE CLAMP®, this connector is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. This through terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 1.5 mm². It comes with one level and a clamping point for connecting a single potential. The blue housing is made of polyamide (PA66) for insulation. This pluggable rail-mount terminal block is operated with an operating tool. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails.. The front-entry wiring means you can connect copper conductors.

Safety Information

A separator plate (Item No. 209-191) or a 10 mm end stop (Item No. 249-117) must be placed at the end of a WAGO X-COM®S-SYSTEM terminal strip.

Electrical data			
Ratings per	IEC/	EN 60947-	7-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated impulse withstand voltage	6 kV	-	-
Rated current	13.5 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	300 V	300 V
Rated current	15 A	15 A	15 A

Approvals per	CS	SA 22.2 No 1	58
Use group	В	С	D
Rated voltage	300 V	300 V	300 V
Rated current	10 A	10 A	10 A

Power Loss	
Power loss, per pole (potential)	0.4338 W
Rated current \boldsymbol{I}_{N} for power loss specification	13.5 A
Resistance value for specified, current- dependent power loss	0.00238 Ω

Data Sheet | Item Number: 2020-1204 https://www.wago.com/2020-1204



Connection data				
Clamping units	1		Connection 1	
Female plug slots	1		Connection technology	Push-in CAGE CLAMP®
Total number of potentials	1		Actuation type	Operating tool
Number of levels	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	48.5 mm / 1.909 inches
Depth from upper-edge of DIN-rail	36.4 mm / 1.433 inches

Mechanical data	
Mounting type	DIN-35 rail
Marking level	Center/side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	blue
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.082 MJ
Weight	3.6 g

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

https://www.wago.com/2020-1204



Commercial data	
Product Group	18 (X-COM-System)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821145394
Customs tariff number	85366990990

Product Classification	
UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7617
CSA DEKRA Certification B.V.	C22.2	2516073
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-100670
UL UL International Germany GmbH	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications





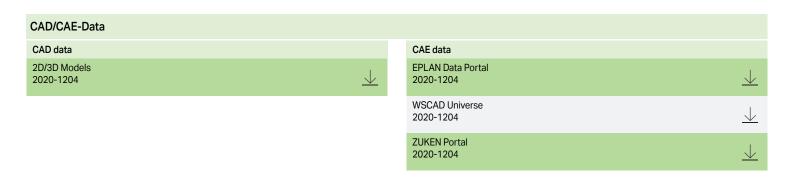
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

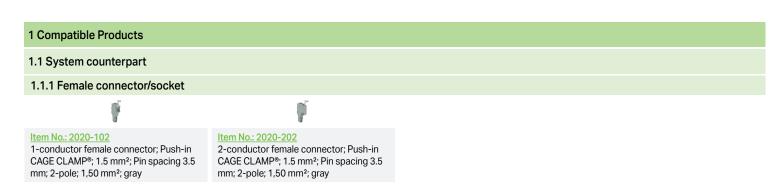
https://www.wago.com/2020-1204



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Documentation Bid Text 2020-1204 docx 07.08.2018 ⊥ 2020-1204 xml 4.14 KB ⊥









1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



Item No.: 2020-100

Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange

1.3.2 DIN-rail

1.3.2.1 Mounting accessories



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



Item No.: 210-197

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



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



Item No.: 210-118

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

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; silver-colored

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; silver-colored

Item No.: 210-113

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

1.3.3 Ferrule

1.3.3.1 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

1.3.4 Jumper

1.3.4.1 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.: 2000-402/000-005

Jumper; 2-way; insulated; red



Item No.: 2000-410/000-005 Jumper; 10-way; insulated; red

Item No.: 2000-402/000-006

Jumper; 2-way; insulated; blue



Item No.: 2000-403

Item No.: 2000-402

Jumper; 3-way; insulated; light gray

Jumper; 2-way; insulated; light gray



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

Item No.: 2000-404/000-006



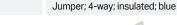
Item No.: 2000-403/000-006

Jumper; 3-way; insulated; blue



Item No.: 2000-403/000-005

Jumper; 3-way; insulated; red





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

https://www.wago.com/2020-1204



1.3.4.1 Jumper

Item No.: 2000-406/000-006

Item No.: 2000-406

Jumper; 6-way; insulated; light gray

Item No.: 2000-406/000-005

Jumper; 6-way; insulated; red

Item No.: 2000-405/000-005

Jumper; 5-way; insulated; red

Item No.: 2000-407/000-006 Item No.: 2000-407

Item No.: 2000-407/000-005

Item No.: 2000-408/000-006

Jumper; 8-way; insulated; blue

Jumper; 7-way; insulated; blue

Jumper; 7-way; insulated; light gray

Jumper; 6-way; insulated; blue

Jumper; 7-way; insulated; red

Item No.: 2000-408

Jumper; 8-way; insulated; light gray

Item No.: 2000-408/000-005 Jumper; 8-way; insulated; red Jumper; 9-way; insulated; blue

Item No.: 2000-409/000-006

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

Item No.: 2000-434 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.: 2000-438

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

Item No.: 210-123 Wire commoning chain; insulated; blue

Item No.: 210-103

Wire commoning chain; insulated; black

1.3.5 Marking

1.3.5.1 Marker

Item No.: 793-3501

WMB marking card; as card; plain; snapon type; white

Item No.: 2009-113

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

1.3.5.2 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

ititi

Item No.: 2000-115

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

https://www.wago.com/2020-1204



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 Screwless end stop

1.3.8.1 Mounting accessories



Item No.: 249-117

Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.3.9 Test and measurement

1.3.9.1 Testing accessories

Item No.: 2000-560

Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; gray

Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; gray

Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; gray

Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; gray

Item No.: 2000-555

Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; gray

Item No.: 2000-556

Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; gray

Item No.: 2000-557

Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; gray

Item No.: 2000-558

Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; gray

Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; gray

Item No.: 2000-549

Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

Item No.: 2009-174

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

Item No.: 2000-511

TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1-pole; gray Item No.: 2000-510

TOPJOB®S L-type test plug module; modular; for jumper contact slot; gray

Item No.: 859-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²

1.3.10 Tool

1.3.10.1 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



Snap individual carrier terminal blocks onto the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool (3.5 x 0.5 mm blade)



Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.

Conductor termination



Push-in CAGE CLAMP® enables solid conductors to be connected by simply pushing them into the unit.

Commoning



Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for TOPJOB® S Terminal Blocks. An end plate provides connection to TOPJOB® S Terminal Blocks. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.



Pairing push-in comb style jumpers.



Commoning with push-in type wire jumper.

Testing



Test plug adapter (Item No. 2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks.

https://www.wago.com/2020-1204



Coding



Insert coding pin into the corresponding slot and twist it off.



Coding a female plug: remove coding finger using a suitable tool.



Insert a coding pin (Item No. 2022-100) into the corresponding location of the carrier terminal block.



Carrier terminal block



1-conductor female plug Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.

Marking



Clear marking via large marking area



Group marking with height-adjustable group marker carrier (Item No. 2009-163)

Security



Carrier terminal blocks and female plugs are touch-proof.

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

Current addresses can be found at:: www.wago.com