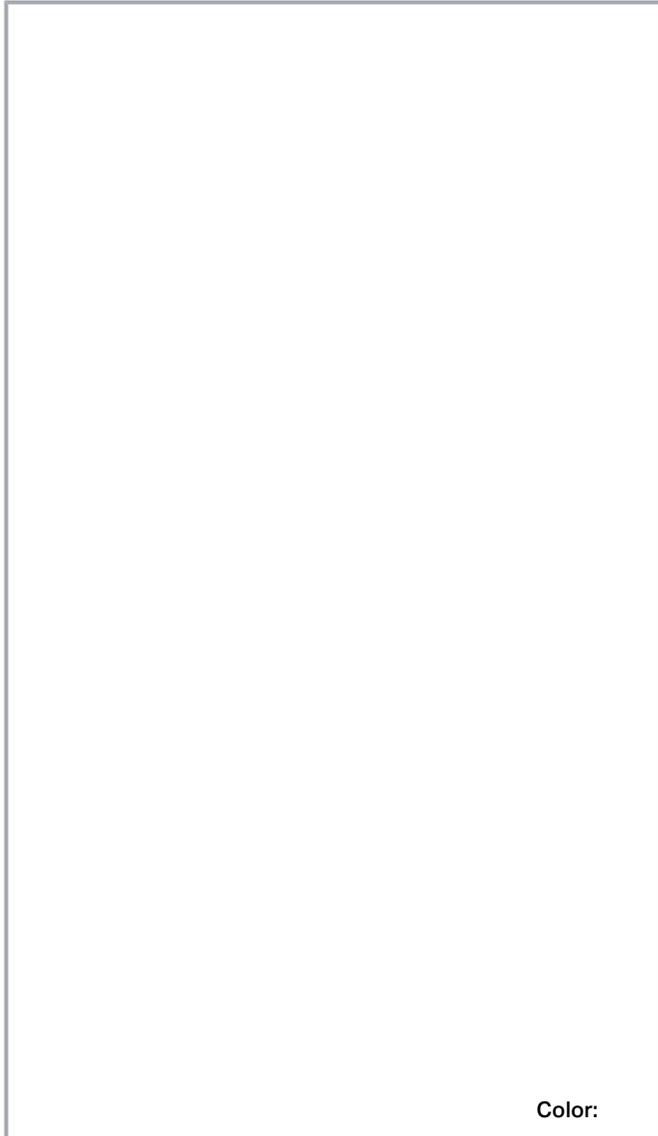


Data sheet | Item number: 2022-1401

2-conductor/2-pin carrier terminal block; 2.5 mm²; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 2,50 mm²; gray

www.wago.com/2022-1401



Color:

Data

Electrical data

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

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Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	690 V
Rated impulse voltage (III/3)	6 kV
Rated current	24 A
Current at conductor cross-section (max.) mm ²	28 A
Legend (ratings)	(III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	600 V
Rated current UL (Use Group B)	20 A
Rated voltage UL (Use Group C)	600 V
Rated current UL (Use Group C)	20 A

Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	20 A

Power Loss

Power loss, per pole (potential)	0.766 W
Rated current I_N for specified power loss	24 A
Resistance value for specified, current-dependent power loss	0.001 Ω

Connection data

Connection points	2
Female plug slots	2
Total number of potentials	1
Number of levels	1

Connection 1

Connection technology	Push-in CAGE CLAMP [®]
Actuation type	Operating tool

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



Connectable conductor materials	Copper
Nominal cross-section	2.5 mm ²
Solid conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Solid conductor; push-in termination	1 ... 4 mm ² / 18 ... 12 AWG
Fine-stranded conductor	0.25 ... 4 mm ² / 22 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm ² / 22 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1 ... 2.5 mm ² / 18 ... 14 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	10 ... 12 mm / 0.39 ... 0.47 inches
Wiring direction	Front-entry wiring

Physical data

Width	5.2 mm / 0.205 inches
Height	86.2 mm / 3.394 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	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.181 MJ
Weight	9.3 g

Environmental requirements

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

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

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Commercial data

Product Group	18 (X-COM-System)
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 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821145226
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR CCA NL-7864
	CSA DEKRA Certification B.V.	C22.2 No. 158	2437422
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71- 116567
	UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
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ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
BV Bureau Veritas S.A.	EN 60947	38586/B0 BV
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Counterpart

Item no.2022-101 1-conductor female connector; Push-in CAGE CLAMP®; 4 mm²; Pin spacing 5.2 mm; 1-pole; 4,00 mm²; gray	www.wago.com/2022-101
---	--

Required accessories

End plate

End plate

Item no.: 2022-1491 End and intermediate plate; 1 mm thick; gray	www.wago.com/2022-1491
Item no.: 2022-1492 End and intermediate plate; 1 mm thick; orange	www.wago.com/2022-1492

Optional accessories

Tool

Operating tool

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

Jumpers

Jumper

Item no.: 210-123 Wire commoning chain; insulated; blue	www.wago.com/210-123
Item no.: 2002-402 Jumper; 2-way; insulated; light gray	www.wago.com/2002-402
Item no.: 2002-402/000-005 Jumper; 2-way; insulated; red	www.wago.com/2002-402/000-005
Item no.: 2002-400	www.wago.com/2002-400

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Continuous jumper; 2-way; insulated; light gray

Item no.: 2002-403

Jumper; 3-way; insulated; light gray

www.wago.com/2002-403

Item no.: 2002-404/000-005

Jumper; 4-way; insulated; red

www.wago.com/2002-404/000-005

Item no.: 2002-403/000-006

Jumper; 3-way; insulated; blue

www.wago.com/2002-403/000-006

Item no.: 2002-404/000-006

Jumper; 4-way; insulated; blue

www.wago.com/2002-404/000-006

Item no.: 2002-403/000-005

Jumper; 3-way; insulated; red

www.wago.com/2002-403/000-005

Item no.: 2002-405/000-005

Jumper; 5-way; insulated; red

www.wago.com/2002-405/000-005

Item no.: 2002-402/000-006

Jumper; 2-way; insulated; blue

www.wago.com/2002-402/000-006

Item no.: 2002-405/000-006

Jumper; 5-way; insulated; blue

www.wago.com/2002-405/000-006

Item no.: 2002-404

Jumper; 4-way; insulated; light gray

www.wago.com/2002-404

Item no.: 2002-406/000-006

Jumper; 6-way; insulated; blue

www.wago.com/2002-406/000-006

Item no.: 2002-406/000-005

Jumper; 6-way; insulated; red

www.wago.com/2002-406/000-005

Item no.: 2002-406/020-000

Delta jumper; insulated; light gray

www.wago.com/2002-406/020-000

Item no.: 2002-405

Jumper; 5-way; insulated; light gray

www.wago.com/2002-405

Item no.: 2002-407/000-005

Jumper; 7-way; insulated; red

www.wago.com/2002-407/000-005

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Item no.: 2002-408 Jumper; 8-way; insulated; light gray	www.wago.com/2002-408
Item no.: 2002-408/000-006 Jumper; 8-way; insulated; blue	www.wago.com/2002-408/000-006
Item no.: 2002-405/011-000 Star point jumper; 3-way; insulated; light gray	www.wago.com/2002-405/011-000
Item no.: 2002-407/000-006 Jumper; 7-way; insulated; blue	www.wago.com/2002-407/000-006
Item no.: 2002-408/000-005 Jumper; 8-way; insulated; red	www.wago.com/2002-408/000-005
Item no.: 2002-407 Jumper; 7-way; insulated; light gray	www.wago.com/2002-407
Item no.: 2002-406 Jumper; 6-way; insulated; light gray	www.wago.com/2002-406
Item no.: 2002-410/000-005 Jumper; 10-way; insulated; red	www.wago.com/2002-410/000-005
Item no.: 2002-410/000-006 Jumper; 10-way; insulated; blue	www.wago.com/2002-410/000-006
Item no.: 2002-410 Jumper; 10-way; insulated; light gray	www.wago.com/2002-410
Item no.: 2002-409/000-006 Jumper; 9-way; insulated; blue	www.wago.com/2002-409/000-006
Item no.: 2002-409/000-005 Jumper; 9-way; insulated; red	www.wago.com/2002-409/000-005
Item no.: 2002-409 Jumper; 9-way; insulated; light gray	www.wago.com/2002-409
Item no.: 2002-423/000-006 Continuous jumper; from 1 to 3; insulated; blue	www.wago.com/2002-423/000-006
Item no.: 2002-423 Continuous jumper; from 1 to 3; insulated; light gray	www.wago.com/2002-423

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Item no.: 2002-433 Jumper; from 1 to 3; insulated; light gray	www.wago.com/2002-433
Item no.: 2002-434 Jumper; from 1 to 4; insulated; light gray	www.wago.com/2002-434
Item no.: 2002-423/000-005 Continuous jumper; from 1 to 3; insulated; red	www.wago.com/2002-423/000-005
Item no.: 2002-435 Jumper; from 1 to 5; insulated; light gray	www.wago.com/2002-435
Item no.: 2002-436 Jumper; from 1 to 6; insulated; light gray	www.wago.com/2002-436
Item no.: 2002-437 Jumper; from 1 to 7; insulated; light gray	www.wago.com/2002-437
Item no.: 2002-438 Jumper; from 1 to 8; insulated; light gray	www.wago.com/2002-438
Item no.: 2002-439 Jumper; from 1 to 9; insulated; light gray	www.wago.com/2002-439
Item no.: 2002-440 Jumper; from 1 to 10; insulated; light gray	www.wago.com/2002-440
Item no.: 2002-472 Staggered jumper; 2-way; insulated; light gray	www.wago.com/2002-472
Item no.: 2002-473 Staggered jumper; 3-way; insulated; light gray	www.wago.com/2002-473
Item no.: 2002-475/011-000 Staggered jumper; 3-way; insulated; light gray	www.wago.com/2002-475/011-000
Item no.: 2002-475 Staggered jumper; 5-way; insulated; light gray	www.wago.com/2002-475
Item no.: 2002-476 Staggered jumper; 6-way; insulated; light gray	www.wago.com/2002-476
Item no.: 2002-474 Staggered jumper; 4-way; insulated; light gray	www.wago.com/2002-474
Item no.: 2002-477 Staggered jumper; 7-way; insulated; light gray	www.wago.com/2002-477
Item no.: 2002-473/011-000 Staggered jumper; 2-way; from 1 to 3; insulated; light gray	www.wago.com/2002-473/011-000

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



Item no.: 2002-479 Staggered jumper; 9-way; insulated; light gray	www.wago.com/2002-479
Item no.: 2002-478 Staggered jumper; 8-way; insulated; light gray	www.wago.com/2002-478
Item no.: 2002-479/011-000 Staggered jumper; insulated; light gray	www.wago.com/2002-479/011-000
Item no.: 2002-480 Staggered jumper; 10-way; insulated; light gray	www.wago.com/2002-480
Item no.: 2002-477/011-000 Staggered jumper; insulated; light gray	www.wago.com/2002-477/011-000
Item no.: 2002-481/011-000 Staggered jumper; insulated; light gray	www.wago.com/2002-481/011-000
Item no.: 2002-481 Staggered jumper; 11-way; insulated; light gray	www.wago.com/2002-481
Item no.: 2002-482 Staggered jumper; 12-way; insulated; light gray	www.wago.com/2002-482
Item no.: 210-103 Wire commoning chain; insulated; black	www.wago.com/210-103
Item no.: 2002-424/000-006 Continuous jumper; from 1 to 4; insulated; blue	www.wago.com/2002-424/000-006

Testing and measuring

Testing accessories

Item no.: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray	www.wago.com/2009-174
Item no.: 2009-182 Testing tap; for max. 2.5 mm ² ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray	www.wago.com/2009-182
Item no.: 2002-511 Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 2,50 mm ² ; gray	www.wago.com/2002-511
Item no.: 2002-549 Spacer module; modular; e.g., for bridging commoned terminal blocks; gray	www.wago.com/2002-549
Item no.: 2002-552 Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 2,50 mm ² ; gray	www.wago.com/2002-552
Item no.: 2002-558 Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 2,50 mm ² ; gray	www.wago.com/2002-558

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



Item no.: 2002-559 Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 2,50 mm ² ; gray	www.wago.com/2002-559
Item no.: 2002-556 Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 2,50 mm ² ; gray	www.wago.com/2002-556
Item no.: 2002-553 Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 2,50 mm ² ; gray	www.wago.com/2002-553
Item no.: 2002-560 Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 2,50 mm ² ; gray	www.wago.com/2002-560
Item no.: 2002-554 Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 2,50 mm ² ; gray	www.wago.com/2002-554
Item no.: 2002-555 Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 2,50 mm ² ; gray	www.wago.com/2002-555
Item no.: 2002-557 Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 2,50 mm ² ; gray	www.wago.com/2002-557
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 0,5mm ²	www.wago.com/859-500
Marking accessories	
Marking strip	
Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
Marker carrier	
Item no.: 2009-198 Adaptor; gray	www.wago.com/2009-198
Item no.: 2002-161 Adaptor; gray	www.wago.com/2002-161
Marker	
Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-145
Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-115
Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/248-501
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	www.wago.com/793-5501
Group marker carrier	
Item no.: 2009-193 Group marker carrier; gray	www.wago.com/2009-193

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



Item no.: 2009-192 Group marker carrier; gray	www.wago.com/2009-192
Item no.: 2009-191 Group marker carrier; gray	www.wago.com/2009-191
Push-in type wire jumper	
Jumper	
Item no.: 2009-412 Push-in type wire jumper; insulated; 60 mm long; black	www.wago.com/2009-412
Item no.: 2009-414 Push-in type wire jumper; 1.5 mm ² ; insulated; 110 mm long; black	www.wago.com/2009-414
Item no.: 2009-416 Push-in type wire jumper; 1.5 mm ² ; insulated; 250 mm long; black	www.wago.com/2009-416
Item no.: 2009-414/000-005 Push-in type wire jumper; 1.5 mm ² ; insulated; 110 mm long; black	www.wago.com/2009-414/000-005
Item no.: 2009-414/000-006 Push-in type wire jumper; insulated; 110 mm long; black	www.wago.com/2009-414/000-006
Coding	
Coding	
Item no.: 2022-100 Carrier with 6 coding pins; for coding of female plugs; orange	www.wago.com/2022-100
Insulation stop	
Insulation stop	
Item no.: 2002-171 Insulation stop; 0.25 - 0.5 mm ² ; 5 pieces/strip; light gray	www.wago.com/2002-171
Item no.: 2002-172 Insulation stop; 0.75 - 1 mm ² ; 5 pieces/strip; dark gray	www.wago.com/2002-172
Ferrule	
Ferrule	
Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight	www.wago.com/216-244

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



crimped; acc. to DIN 46228, Part 4/09.90; black

Item no.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red www.wago.com/216-263

Item no.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue www.wago.com/216-246

Item no.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue www.wago.com/216-266

Item no.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black www.wago.com/216-264

Item no.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue www.wago.com/216-286

Item no.: 216-262

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 www.wago.com/216-262

Protective warning marker

Cover

Item no.: 2002-115

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow www.wago.com/2002-115

Carrier rail

Mounting accessories

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 www.wago.com/210-197

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 www.wago.com/210-198

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 www.wago.com/210-113

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 www.wago.com/210-118

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 www.wago.com/210-112

Item no.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored www.wago.com/210-114

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 www.wago.com/210-115

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 www.wago.com/210-196

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

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Downloads

Documentation

Bid Text

2022-1401 X81 - Datei	2019 年5月17 日	xml 4.3 kB	Download
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2022-1401 docx - Datei	2019 年5月14 日	docx 15.7 kB	Download
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Additional Information

		pdf 2.3 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 2022-1401		URL	Download
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CAE data

EPLAN Data Portal 2022-1401		URL	Download
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WSCAD Universe 2022-1401		URL	Download
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ZUKEN Portal 2022-1401		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2022-1401		URL	Download
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2-conductor/2-pin carrier terminal block; 2.5 mm²; for DIN-rail 35 x 15 and 35 x 7.5;
Push-in CAGE CLAMP®; 2,50 mm²; gray

Installation Notes

Installation

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

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

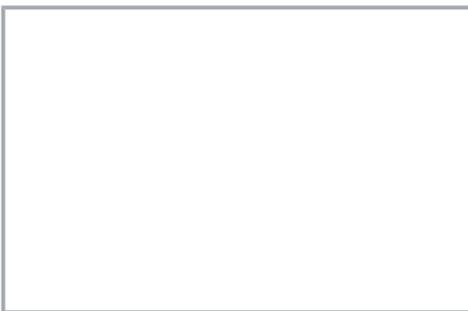


Open the assembly by laterally sliding a block via operating tool (3.5 x 0.5 mm blade).



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

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



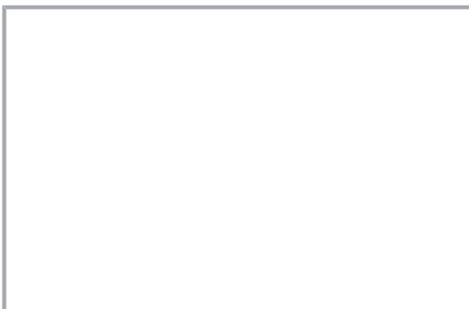
Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for TOPJOB® S Terminal Blocks. An end plate provides connection to TOPJOB® S Terminal Blocks. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.

Pairing push-in comb style jumpers.



Commoning with push-in type wire jumper.

Testing



Test plug adapter (2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks.

Coding

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



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 (2022-100) into the corresponding location of the carrier terminal block.

Marking



Clear marking via large marking area



Group marking with height-adjustable group marker carrier (2009-163)

Security

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



Carrier terminal blocks and female plugs are touch-proof.

Product family

X-COM S

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