

Color: ■ gray

Electrical data

Ratings per			IEC/EN 60947-7-1		
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Nominal voltage	690 V	-	-		
Rated surge voltage	6 kV	-	-		
Rated current	24 A	-	-		

Approvals per			UL 1059		
Use group	B	C	D		
Rated voltage	600 V	600 V	-		
Rated current	20 A	20 A	-		

Approvals per			CSA 22.2 No 158		
Use group	B	C	D		
Rated voltage	-	600 V	-		
Rated current	-	20 A	-		

Power Loss		
Power loss, per pole (potential)	0.7661 W	
Rated current I_N for specified power loss	24 A	

Connection data

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

Physical data

Width	5.2 mm / 0.205 inches
Height	52 mm / 2.047 inches
Depth from upper-edge of DIN-rail	32.5 mm / 1.28 inches

Mechanical data

Design	horizontal type
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

0.125 MJ

Weight

5.5 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)

50 pcs

Packaging type

Box

Country of origin

CN

GTIN

4055143828826

Customs tariff number

85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates**General approvals**

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2022-1601



Documentation

Additional Information

Technical Section

pdf
2240.62 KB



Bid Text

2022-1601

20.05.2019

xml
4.31 KB



2022-1601

20.05.2019

docx
15.17 KB



CAD/CAE-Data

CAD data

2D/3D Models
2022-1601



CAE data

ZUKEN Portal
2022-1601



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[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

1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



[Item No.: 2022-1691](#)

End plate; 1 mm thick; gray

[Item No.: 2022-1692](#)

End plate; 1 mm thick; orange

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding

**Item No.: 2022-100**

Carrier with 6 coding pins; for coding of female plugs; 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

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

**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 Jumper

1.3.3.1 Jumper

**Item No.: 2002-400**

Continuous jumper; 2-way; insulated; light gray

Item No.: 2002-423/000-006

Continuous jumper; from 1 to 3; insulated; blue

Item No.: 2002-423

Continuous jumper; from 1 to 3; insulated; light gray

Item No.: 2002-423/000-005

Continuous jumper; from 1 to 3; insulated; red

**Item No.: 2002-424/000-006**

Continuous jumper; from 1 to 4; insulated; blue

Item No.: 2002-424

Continuous jumper; from 1 to 4; insulated; light gray

Item No.: 2002-424/000-005

Continuous jumper; from 1 to 4; insulated; red

Item No.: 2002-406/020-000

Delta jumper; insulated; light gray

**Item No.: 2002-410/000-006**

Jumper; 10-way; insulated; blue

Item No.: 2002-410

Jumper; 10-way; insulated; light gray

Item No.: 2002-410/000-005

Jumper; 10-way; insulated; red

Item No.: 2002-402/000-006

Jumper; 2-way; insulated; blue

**Item No.: 2002-402**

Jumper; 2-way; insulated; light gray

Item No.: 2002-402/000-005

Jumper; 2-way; insulated; red

Item No.: 2002-403/000-006

Jumper; 3-way; insulated; blue

Item No.: 2002-403

Jumper; 3-way; insulated; light gray

**Item No.: 2002-403/000-005**

Jumper; 3-way; insulated; red

Item No.: 2002-404/000-006

Jumper; 4-way; insulated; blue

Item No.: 2002-404

Jumper; 4-way; insulated; light gray

Item No.: 2002-404/000-005

Jumper; 4-way; insulated; red

**Item No.: 2002-405/000-006**

Jumper; 5-way; insulated; blue

Item No.: 2002-405

Jumper; 5-way; insulated; light gray

Item No.: 2002-405/000-005

Jumper; 5-way; insulated; red

Item No.: 2002-406/000-006

Jumper; 6-way; insulated; blue

**Item No.: 2002-406**

Jumper; 6-way; insulated; light gray

Item No.: 2002-406/000-005

Jumper; 6-way; insulated; red

Item No.: 2002-407/000-006

Jumper; 7-way; insulated; blue

Item No.: 2002-407

Jumper; 7-way; insulated; light gray

1.3.3.1 Jumper



[Item No.: 2002-407/000-005](#)
Jumper; 7-way; insulated; red



[Item No.: 2002-408/000-006](#)
Jumper; 8-way; insulated; blue



[Item No.: 2002-408](#)
Jumper; 8-way; insulated; light gray



[Item No.: 2002-408/000-005](#)
Jumper; 8-way; insulated; red



[Item No.: 2002-409/000-006](#)
Jumper; 9-way; insulated; blue



[Item No.: 2002-409](#)
Jumper; 9-way; insulated; light gray



[Item No.: 2002-409/000-005](#)
Jumper; 9-way; insulated; red



[Item No.: 2002-440](#)
Jumper; from 1 to 10; insulated; light gray



[Item No.: 2002-433](#)
Jumper; from 1 to 3; insulated; light gray



[Item No.: 2002-434](#)
Jumper; from 1 to 4; insulated; light gray



[Item No.: 2002-435](#)
Jumper; from 1 to 5; insulated; light gray



[Item No.: 2002-436](#)
Jumper; from 1 to 6; insulated; light gray



[Item No.: 2002-437](#)
Jumper; from 1 to 7; insulated; light gray



[Item No.: 2002-438](#)
Jumper; from 1 to 8; insulated; light gray



[Item No.: 2002-439](#)
Jumper; from 1 to 9; insulated; light gray



[Item No.: 2002-480](#)
Staggered jumper; 10-way; insulated; light gray



[Item No.: 2002-481](#)
Staggered jumper; 11-way; insulated; light gray



[Item No.: 2002-482](#)
Staggered jumper; 12-way; insulated; light gray



[Item No.: 2002-473/011-000](#)
Staggered jumper; 2-way; from 1 to 3; insulated; light gray



[Item No.: 2002-472](#)
Staggered jumper; 2-way; insulated; light gray



[Item No.: 2002-473](#)
Staggered jumper; 3-way; insulated; light gray



[Item No.: 2002-475/011-000](#)
Staggered jumper; 3-way; insulated; light gray



[Item No.: 2002-474](#)
Staggered jumper; 4-way; insulated; light gray



[Item No.: 2002-475](#)
Staggered jumper; 5-way; insulated; light gray



[Item No.: 2002-476](#)
Staggered jumper; 6-way; insulated; light gray



[Item No.: 2002-477](#)
Staggered jumper; 7-way; insulated; light gray



[Item No.: 2002-478](#)
Staggered jumper; 8-way; insulated; light gray



[Item No.: 2002-479](#)
Staggered jumper; 9-way; insulated; light gray



[Item No.: 2002-477/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-479/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-481/011-000](#)
Staggered jumper; insulated; light gray



[Item No.: 2002-405/011-000](#)
Star point jumper; 3-way; insulated; light gray

1.3.4 Marking

1.3.4.1 Group marker carrier



[Item No.: 2009-191](#)
Group marker carrier; gray



[Item No.: 2009-192](#)
Group marker carrier; gray



[Item No.: 2009-193](#)
Group marker carrier; gray

1.3.4.2 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



[Item No.: 248-501](#)
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



[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.: 2009-115](#)
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.3.4.3 Marker carrier



[Item No.: 2002-161](#)
Adaptor; gray

[Item No.: 2009-198](#)
Adaptor; gray

1.3.4.4 Marking strip



[Item No.: 2009-110](#)
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

1.3.5 Push-in type wire jumper

1.3.5.1 Jumper



[Item No.: 2009-414](#)
Push-in type wire jumper; 1.5 mm²; insulated;
110 mm long; black

[Item No.: 2009-414/000-005](#)
Push-in type wire jumper; 1.5 mm²; insulated;
110 mm long; black

[Item No.: 2009-416](#)
Push-in type wire jumper; 1.5 mm²; insulated;
250 mm long; black

[Item No.: 2009-414/000-006](#)
Push-in type wire jumper; insulated; 110
mm long; black



[Item No.: 2009-412](#)
Push-in type wire jumper; insulated; 60
mm long; black

1.3.6 Screwless end stop

1.3.6.1 Mounting accessories



[Item No.: 249-117](#)
Screwless end stop; 10 mm wide; for DIN-
rail 35 x 15 and 35 x 7.5; gray

[Item No.: 249-116](#)
Screwless end stop; 6 mm wide; for DIN-
rail 35 x 15 and 35 x 7.5; gray

1.3.7 Tool

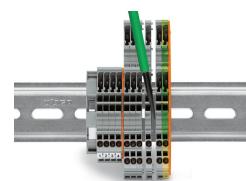
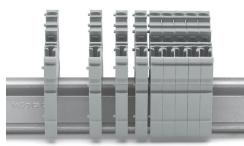
1.3.7.1 Operating tool



[Item No.: 210-720](#)
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured

Installation Notes

Installation

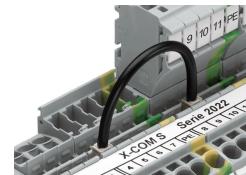
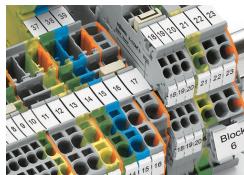


Snap individual carrier terminal blocks onto the DIN-rail and slide together.

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.

Commoning

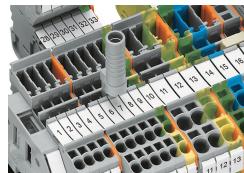


Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for TOPJOB® S Terminal Blocks. An end plate provides connection to TOPJOB® S Terminal Blocks. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.

Pairing push-in comb style jumpers.

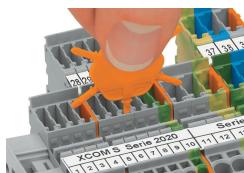
Commoning with push-in type wire jumper.

Testing



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

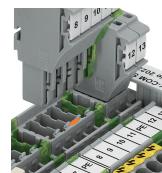
Coding



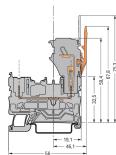
Insert coding pin into the corresponding slot and twist it off.



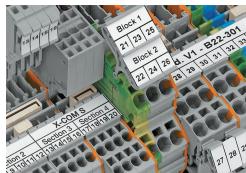
Coding a female plug: remove coding finger using a suitable tool.



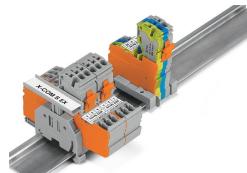
Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.



Marking



Clear marking via large marking area



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

Security



Carrier terminal blocks and female plugs are touch-proof.