

Color: ■ blue



Similar to illustration

Electrical data

IEC/EN 60947-7-1		
Overvoltage category	III	III
Pollution degree	3	2
Nominal voltage	500 V	-
Rated surge voltage	6 kV	-
Rated current	24 A	-
Current at conductor cross-section (max.) mm ²	28 A	-

UL 1059		
Use group	B	C
Rated voltage	300 V	300 V
Rated current	20 A	20 A

Approvals per

CSA 22.2 No 158

Use group	B	C	D
Rated voltage	300 V	300 V	-
Rated current	20 A	20 A	-

Ex information

Reference hazardous areas	See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations"
Ratings per	ATEX: KIWA 17 ATEX 0030 U / IECEx: KIWA 17.0014U (Ex ec IIC Gc)
Rated voltage EN (Ex e II)	440 V
Rated current (Ex e II)	14 A

Power Loss

Power loss, per pole (potential)	0.7661 W
Rated current I_N for specified power loss	24 A
Resistance value for specified, current-dependent power loss	0.00133 Ω

Connection data

Connection points	4
Total number of potentials	2
Number of levels	2
Number of jumper slots	4
Number of jumper slots (rank)	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Number of connection points	2
Actuation type	Operating tool
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	0.75 ... 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

Connection 2

Number of connection points 2	2
-------------------------------	---

Physical data

Width	5.2 mm / 0.205 inches
Height	93 mm / 3.661 inches
Depth from upper-edge of DIN-rail	51.7 mm / 2.035 inches

Mechanical data

Potential marking	N/N
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	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.273 MJ
Weight	14.2 g

Environmental requirements

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

Commercial data

Product Group	22 (TOPJOB S)
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	DE
GTIN	4050821403838
Customs tariff number	85369010000

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 7941
CSA DEKRA Certification B.V.	C22.2 No. 158	1536069
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-124163
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations**Approvals for marine applications**

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 2002-2604



Documentation

Additional Information

Technical Section

pdf
2240.62 KB



Bid Text

2002-2604

18.04.2019

xml
4.14 KB



2002-2604

18.04.2019

docx
14.98 KB



CAD/CAE-Data

CAD data

2D/3D Models
2002-2604



CAE data

EPLAN Data Portal
2002-2604



WSCAD Universe
2002-2604



ZUKEN Portal
2002-2604



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate



[Item No.: 2002-2691](#)

End and intermediate plate; 1 mm thick;
gray



[Item No.: 2002-2692](#)

End and intermediate plate; 1 mm thick;
orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 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.: 210-508](#)

Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; slotted; galvanized; simi-
lar to EN 60715; silver-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.: 210-506](#)

Steel carrier rail; 35 x 15 mm; 1.5 mm
thick; 2 m long; unslotted; galvanized; si-
milar 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

1.2.1.1 Mounting accessories



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.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; 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

Item No.: 210-505

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

1.2.2 End plate

1.2.2.1 End plate



Item No.: 209-192

Separator for Ex e/Ex i applications; 3 mm thick; 125.5 mm wide; orange

1.2.3 Ferrule

1.2.3.1 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.: 216-262

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



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



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



Item No.: 216-244

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



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



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



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



1.2.4 Installation

1.2.4.1 Cover

Item No.: 709-156

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

1.2.4.2 Cover carrier

[Item No.: 709-169](#)

Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.5 Insulation stop

1.2.5.1 Insulation stop

[Item No.: 2002-171](#)

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

[Item No.: 2002-172](#)

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.2.6 Jumper

1.2.6.1 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

[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

1.2.6.1 Jumper

			
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
			
Item No.: 2002-492 Vertical jumper; insulated; light gray	Item No.: 2002-492/000-012 Vertical jumper; insulated; orange	Item No.: 210-103 Wire commoning chain; insulated; black	Item No.: 210-123 Wire commoning chain; insulated; blue

1.2.7 Marking

1.2.7.1 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

1.2.7.2 Marker

			
Item No.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	Item No.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	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.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow
			
Item No.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	Item No.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	Item No.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	Item No.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

1.2.7.2 Marker

[Item No.: 248-501/000-012](#)

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

[Item No.: 248-501/000-005](#)

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

[Item No.: 248-501/000-024](#)

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

[Item No.: 248-501](#)

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

[Item No.: 248-501/000-002](#)

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

[Item No.: 793-5501/000-006](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[Item No.: 793-5501/000-014](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

[Item No.: 793-5501/000-007](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[Item No.: 793-5501/000-023](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

[Item No.: 793-5501/000-017](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[Item No.: 793-5501/000-012](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[Item No.: 793-5501/000-005](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

[Item No.: 793-5501/000-024](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[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.: 793-5501/000-002](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[Item No.: 2009-115/000-006](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[Item No.: 2009-115/000-007](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[Item No.: 2009-115/000-023](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

[Item No.: 2009-115/000-017](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

[Item No.: 2009-115/000-012](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[Item No.: 2009-115/000-005](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

[Item No.: 2009-115/000-024](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

[Item No.: 2009-115](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[Item No.: 2009-115/000-002](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.7.3 Marker carrier

[Item No.: 2002-121](#)

Adaptor; gray

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

Adaptor; gray

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

Adaptor; gray

1.2.7.4 Marking strip

[Item No.: 2009-110](#)

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

1.2.8 Protective warning marker

1.2.8.1 Cover

[Item No.: 2002-115](#)

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

1.2.9 Push-in type wire jumper

1.2.9.1 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

1.2.10 Screwless end stop

1.2.10.1 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

1.2.11 Test and measurement

1.2.11.1 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.: 2009-182](#)Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray[Item No.: 2002-649](#)

TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray

[Item No.: 2002-611](#)TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm²; gray

1.2.12 Tool

1.2.12.1 Operating tool

[Item No.: 210-658](#)

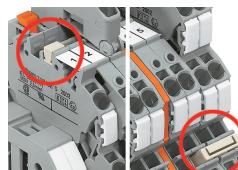
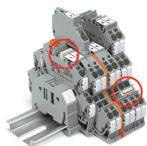
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

[Item No.: 210-720](#)

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Commoning



The same profile allows for commoning with TOPJOB® S double-deck terminal blocks (upper deck) and with triple-deck terminal blocks (lower deck).

Left picture – Vertical jumper (2002-492)
Right picture – Push-in type jumper bar (2002 Series)

