



Color: ■ gray

Notes	
Safety information	2-conductor female plugs cannot be used.

Electrical data	
Ratings per IEC/EN	
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	16 A
Legend (ratings)	(III / 3) △ Overvoltage category III / Pollution degree 3
Power Loss	
Rated current I _N for specified power loss	16 A

Connection data	
Total number of potentials	10
Number of levels	1
Connection 1	
Pole number	10
Wiring direction	Front-entry wiring

Physical data	
Width	26.1 mm / 1.028 inches
Height	87.5 mm / 3.445 inches
Depth from upper-edge of DIN-rail	28.5 mm / 1.122 inches



Mechanical data	
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center 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	0.903 MJ
Weight	40.8 g

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

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)	5 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918630245
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CSA CSA Group	C22.2	1101144	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2190419.01			
UL Underwriters Laboratories Inc.	UL 1977	E 45171			
UR Underwriters Laboratories Inc.	UL 1059	E45172			



Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 769-165/769-313



Documentation

Additional Information
Technical Section

pdf
2240.62 KB



Bid Text			
769-165/769-313	19.02.2019	xml 3.01 KB	
769-165/769-313	04.10.2017	doc 25.00 KB	



CAD/CAE-Data

CAD data
2D/3D Models 769-165/769-313



CAE data
EPLAN Data Portal 769-165/769-313
WSCAD Universe 769-165/769-313
ZUKEN Portal 769-165/769-313



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 769-105/022-000 1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-pole; coding finger; 4,00 mm²; gray	Item No.: 769-105 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-po- le; coding finger; 4,00 mm²; gray
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1.2 Required Accessories

1.2.1 End plate

1.2.1.1 End plate



Item No.: 769-309
End and intermediate plate; 1.1 mm thick; gray



Item No.: 769-310
End and intermediate plate; 1.1 mm thick; orange

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



Item No.: 769-435
Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

1.3.2 Cover

1.3.2.1 Cover



Item No.: 769-438
Pin cover; with marker slot for miniature WSB; gray



Item No.: 769-439
Pin cover; with marker slot for miniature WSB; orange

1.3.3 DIN-rail

1.3.3.1 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; similar 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; 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.: 210-504
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

1.3.4 End plate

1.3.4.1 End plate



Item No.: 769-313
Separator plate; 1.1 mm thick; oversized; orange

1.3.5 Installation

1.3.5.1 Mounting accessories



Item No.: 209-106
Mounting carrier; for isolated mounting on DIN 35 rails; gray



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

1.3.6 Jumper

1.3.6.1 Jumper



Item No.: 280-402
Jumper; insulated; gray



Item No.: 280-409
Jumper; insulated; gray



Item No.: 780-452
Staggered jumper; from 1 to 2; insulated; gray



Item No.: 780-453
Staggered jumper; from 1 to 3; insulated; gray



Item No.: 780-454
Staggered jumper; from 1 to 4; insulated; gray



Item No.: 780-455
Staggered jumper; from 1 to 5; insulated; gray



Item No.: 780-456
Staggered jumper; from 1 to 6; insulated; gray



Item No.: 780-457
Staggered jumper; from 1 to 7; insulated; gray



Item No.: 780-458
Staggered jumper; from 1 to 8; insulated; gray

1.3.7 Marking

1.3.7.1 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

1.3.8 Plug

1.3.8.1 AND gate module



Item No.: 286-826
AND gate module with 6 inputs; light gray

1.3.8.2 Component module with diode



Item No.: 286-809
Component module with diode; with 9 pcs;
Diode 1N4007; with common anode; gray

1.3.8.3 Component module with LED



Item No.: 286-822
Component module with LED; Red LED;
with common cathode

1.3.8.4 Current flow monitoring module



Item No.: 286-664
Current flow monitoring module; AC cur-
rents; Monitoring range: 0.2 A – 3 A; 1
changeover contact; light gray



Item No.: 286-665
Current flow monitoring module; AC cur-
rents; Monitoring range: 1 A – 10 A; 1
changeover contact; light gray

1.3.8.5 Empty component plug housing



Item No.: 286-113
Empty component plug housing; Type 12;
25 mm wide; 10-pole; gray



Item No.: 786-103
Empty component plug housing; Type 16;
25 mm wide; 10-pole; gray

1.3.8.6 Relay module



Item No.: 286-336/001-000
Relay module; Nominal input voltage: 24
VDC; 2 break and 2 make contacts; Red
status indicator; Module width: 25 mm;
gray



Item No.: 286-344/004-000
Relay module; Nominal input voltage: 24
VDC; 3 break contacts and 1 make con-
tact; Railway; Red status indicator; Modu-
le width: 25 mm; gray



Item No.: 286-352/004-000
Relay module; Nominal input voltage: 24
VDC; 4 make contacts; Limiting conti-
nuous current: 5 A; Railway; Red status in-
dicator; Module width: 25 mm; gray

1.3.8.7 S0 interface power supply unit



Item No.: 286-742
S0 interface power supply; Input voltage:
230 VAC; S0 interface

1.3.9 Push-in type wire jumper

1.3.9.1 Jumper



Item No.: 249-126
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black



Item No.: 249-123
Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black



Item No.: 249-127
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black



Item No.: 249-125
Push-in type wire jumper; insulated; 60 mm long; black

1.3.10 Test and measurement

1.3.10.1 Testing accessories



Item No.: 280-419
Spacer module; modular; bridging commoned terminal blocks; gray



Item No.: 280-404
Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm² - 4 mm² tbs; gray



Item No.: 280-418
Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray

1.3.11 Tool

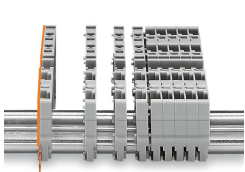
1.3.11.1 Operating tool



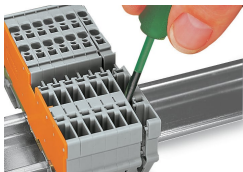
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

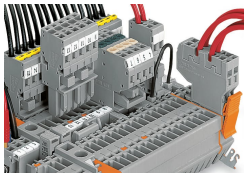


Snap individual carrier terminal blocks onto the DIN-rail and slide together.



Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

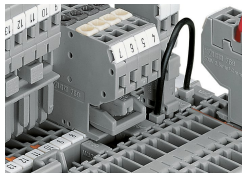
Commoning



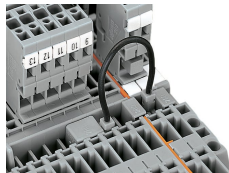
Commoning with adjacent or staggered jumpers. Push jumpers down until fully inserted.



Commoning carrier terminal blocks via staggered jumpers.

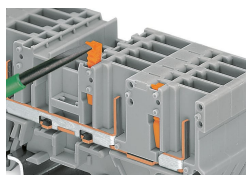


Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.



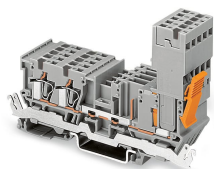
Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.

Coding

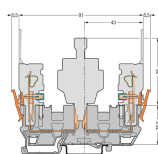


Snap coding pin in proper direction on carrier terminal block.
Shown: Coding pin removal from carrier terminal block.

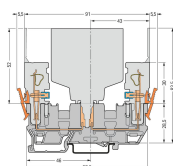
Locking system



Securing a female plug via locking lever on the terminal block side.



Carrier terminal block
For other dimensions, see carrier terminal
block (769-151).



Carrier terminal block



2-pin terminal block for pluggable modules with orange separator plate



2-pin terminal block for pluggable modules with two jumper positions and separator plate
1-conductor female plug, straight*
Relay plug, 25 mm wide
*1-conductor angled female plug is also possible!