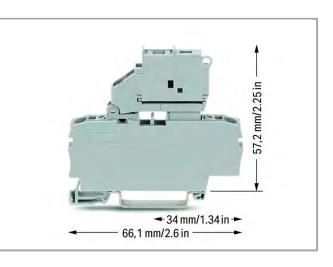
Data sheet | Item number: 2002-1611

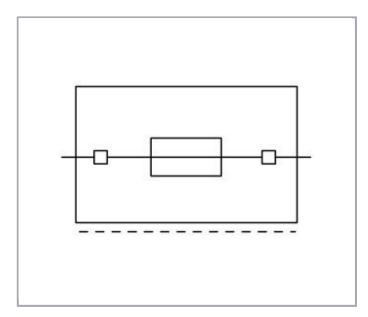
2-conductor fuse terminal block; with pivoting fuse holder; and end plate; for 5 x 20 mm miniature metric fuse; without blown fuse indication; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP[®]; 2,50 mm²; gray











Item description

Safety information 1:

Electrical ratings are given by the fuse.

Data Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60947-7-3
Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	6 kV
Rated current	6.3 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Approvals per UL 1059

Rated voltage UL (Use Group B)	250 V
Rated current UL (Use Group B)	6.3 A
Rated voltage UL (Use Group C)	250 V
Rated current UL (Use Group C)	6.3 A
Rated voltage UL (Use Group D)	250 V
Rated current UL (Use Group D)	6.3 A
Approvals per	UL 1059



Connection data

Push-in CAGE CLAMP [®]
Push-in
Open Tool Slot
Copper
2,5 mm²
0,25 4 mm² / 22 12 AWG
0,75 4 mm² / 18 12 AWG
0,25 4 mm² / 22 12 AWG
1 2,5 mm² / 18 12 AWG
1 2,5 mm² / 18 12 AWG
10 12 mm / 0.39 0.47 inch
2
1
1
Front-entry wiring
Depending on the conductor characteristic, a conductor with a
smaller cross-section can also be inserted via push-in termination.
2

Geometrical Data

Width	6,2 mm / 0.244 inch
Height from upper-edge of DIN-35 rail	57,2 mm / 2.252 inch
Depth	66,1 mm / 2.602 inch

Mechanical data

Design	horizontal type
Type of mounting	DIN-35 rail
Marking level	Center/side marking

Material Data

Color	gray
Insulating material	Polyamide 66 (PA 66)
Fire load	0.282 MJ
Weight	13.2 g



Commercial data

Product Group	22 (TOPJOB S)
Packaging type	BOX
Country of origin	CN
GTIN	4045454974732
Customs Tariff No.	85369095990

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
AEx	AEx Underwriters Laboratories Inc.	UL 60079	20190704- E185892
PTB 0102 Ex ec IIC Gc	ATEX KIWA Netherlands B.V.	EN 60079	KIWA 17ATEX0030 U
IECEx	IECEx KIWA Netherlands B.V.	EN 60079	IECEx KIWA 17.0014U

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
CCA	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7730
SP	CSA DEKRA Certification B.V.	C22.2 No. 158	1536069
KEUR	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71- 107687

Ship Approvals

Certificate



Logo	Approval	Additional Approval Text	name
ABS.	ABS	EN 60947	20-
(Te))	American Bureau of Shipping		HG1941090-
TANK THE ROLED FROM			PDA
STROVED PR.	DNV GL	-	TAE00001V2
See 8	Det Norske Veritas, Germanischer Lloyd		
DNV-GL			
107529	LR	EN 60947	91/20112
THE AREAS	Lloyds Register		(E9)
JL-Approvals			
			Certificate
Logo	Approval	Additional Approval Text	name
	UR	UL 1059	E45172
۶L	Underwriters Laboratories Inc.		

Counterpart

Compatible products

End plate

	Item no.: 2002-991 End plate for fuse terminal blocks; 2 mm thick; gray
	Item no.: 2002-992
1 m	End plate for fuse terminal blocks; 2 mm thick; orange
Locking lever	



1

ltem no.: 210-254

Interlocking link; mechanically locks multiple links; 1 m long; transparent

check	
Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable; red	
Jumper	
Item no.: 2004-402 Push-in type jumper bar; insulated; 2-way; Nominal current 32 A; light gray	
Item no.: 2004-403 Push-in type jumper bar; insulated; 3-way; Nominal current 32 A; light gray	
Item no.: 2004-404 Push-in type jumper bar; insulated; 4-way; Nominal current 32 A; light gray	
Item no.: 2004-405Push-in type jumper bar; insulated; 5-way; Nominal current 32 A; light gray	
Item no.: 2004-405/011-000Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray	
Item no.: 2004-406Push-in type jumper bar; insulated; 6-way; Nominal current 32 A; light gray	
Item no.: 2004-406/020-000Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray	
Item no.: 2004-407Push-in type jumper bar; insulated; 7-way; Nominal current 32 A; light gray	
Item no.: 2004-408Push-in type jumper bar; insulated; 8-way; Nominal current 32 A; light gray	
Item no.: 2004-409Push-in type jumper bar; insulated; 9-way; Nominal current 32 A; light gray	
Item no.: 2004-410Push-in type jumper bar; insulated; 10-way; Nominal current 32 A; light gray	
Item no.: 2004-433Push-in type jumper bar; insulated; from 1 to 3; Nominal current 32 A; light gray	
Item no.: 2004-434Push-in type jumper bar; insulated; from 1 to 4; Nominal current 32 A; light gray	
Item no.: 2004-435Push-in type jumper bar; insulated; from 1 to 5; Nominal current 32 A; light gray	
Item no.: 2004-436Push-in type jumper bar; insulated; from 1 to 6; Nominal current 32 A; light gray	



FI	Item no.: 2004-437	
LT	Push-in type jumper bar; insulated; from 1 to 7; Nominal current 32 A; light gray	
T	Item no.: 2004-438 Push-in type jumper bar; insulated; from 1 to 8; Nominal current 32 A; light gray	
1	Item no.: 2004-439 Push-in type jumper bar; insulated; from 1 to 9; Nominal current 32 A; light gray	
1	Item no.: 2004-440 Push-in type jumper bar; insulated; from 1 to 10; Nominal current 32 A; light gray	
$\gamma\gamma\gamma$	Item no.: 210-103 Wire commoning chain; insulated; 50 connections; black	
$\overline{\gamma}$	Item no.: 210-123 Wire commoning chain; insulated; 50 connections	
Push-In type wi	re jumper	
\bigcirc	Item no.: 2009-412 Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black	
\bigcirc	Item no.: 2009-414 Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 1.5 mm²; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black	
\bigcirc	Item no.: 2009-416 Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 1.5 mm ² ; suitable for 2001, 2002, 2003 and 2022 Series rail-mounted terminal blocks; black	
Protective War	ning Marker	
TIT	Item no.: 2002-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow	
Marking access	sories	
0	Item no.: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type; white	
æ	Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	
æ	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	
æ	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	
æ	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	



æ	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
æ	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
æ	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
æ	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
æ	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.: 2009-145 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.: 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.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue
/	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray
/	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange
/	Item no.: 2009-145/000-023 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green
/	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
TUTUTU	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card



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ltem no.: 248-501/000-002
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow
 Item no.: 248-501/000-005

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

	1.1
	111
1444	1111
1000	

ltem no.: 248-501/000-006

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



ltem no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



ltem no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



ltem no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

COLUMN TWO IS NOT

Item no.: 248-501/000-023

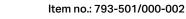
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



Item no.: 248-501/000-024

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

1020	ltem no.: 793-501
	WMB marking card; as card; not stretchable; plain; snap-on type; white



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



Item no.: 793-501/000-005 WMB marking card; as card; not stretchable; plain; snap-on type; red

Item no.: 793-501/000-006

WMB marking card; as card; not stretchable; plain; snap-on type; blue





Item no.: 793-501/000-012

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



	Item no.: 793-501/000-017 WMB marking card; as card; not stretchable; plain; snap-on type; light green
	Item no.: 793-501/000-023 WMB marking card; as card; not stretchable; plain; snap-on type; green
	Item no.: 793-501/000-024 WMB marking card; as card; not stretchable; plain; snap-on type; violet
THURSDAY	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.: 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.: 793-5501/000-006 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.: 793-5501/000-007 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.: 793-5501/000-012 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.: 793-5501/000-014 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.: 793-5501/000-017 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.: 793-5501/000-023 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.: 793-5501/000-024 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap- on type; violet
Insulation stop	



00000	Item no.: 2002-171 Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray
00000	Item no.: 2002-172 Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

~	induction stop, c o Thinn , o process strip, daily gray	
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	
	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	
1	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.: 216-262 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.: 216-263 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.: 216-264 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	•
I	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	•
Carrier rail		
O mage conting seves	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	
1	Item no.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715	•
-	Item no.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715	•
110000	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	
	Item no.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715	-
Subject to ch	anges. Plaase also observe the further product documentation	

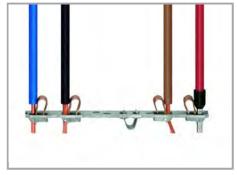


	Item no.: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver- colored
	Item no.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715
	Item no.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper- colored
le)	Item no.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715
1	Item no.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715
P	Item no.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715
	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715
tools	
/	Item no.: 210-658 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short
1	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft
Downloads Document	
Additional In	
Technical ex	
CAD/CAE-	Data
CAD data	
2D/3D Mode	ls 2002-1611
CAE data	
EPLAN Data	Portal 2002-1611
WSCAD Univ	verse 2002-1611
Subject to ch	anges. Please also observe the further product documentation!



Installation Notes

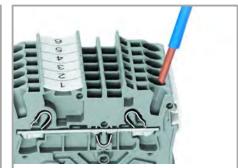
Conductor termination



All conductor types at a glance



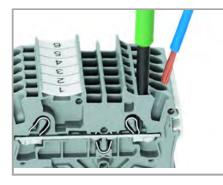
Terminating solid and ferruled conductors via push-in connection.



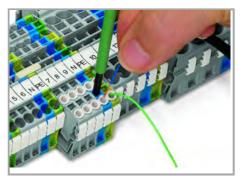
Inserting conductors via push-in termination.

Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.





Inserting a conductor via operating tool.



Conductor termination – Insulation stop.

Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP[®] – just use an operating tool.

The smart feature:

To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning





The push-in type jumper bar system is based

on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel

spring. The jumper contact material is pure

extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system.

Custom jumpers are created by breaking

2002, 2004 Series).

and removing jumper contacts (2000, 2001,

electrolytic copper, which allows for an

Removing a push-in type jumper bar.

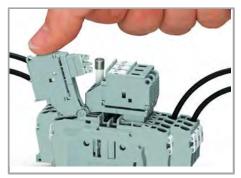
Insert the operating tool between the jumper and and partition wall of the dual jumper slots, then lift up the jumper.

Place the operating tool in the center of jumpers up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



Fuse terminal blocks with a width of 6.2 mm can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used.





Fused disconnect terminal block with a pivoting fuse holder – pivoting the fuse holder into the locked open position.

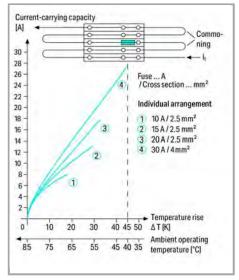


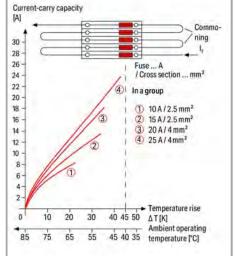
Fused disconnect terminal block with a pivoting fuse holder – replacing a fuse.

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1611	1			
2002-1711	1.6 W	1.6 W	2.5 W	2.5 W
2002-1811				
2002-1611/				
2002-1711/	1.6 W	1.6 W	2.5 W	2.5 W
2002-1811/				

When selecting miniature metric fuses, make sure that the maximum power loss listed above is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23 °C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures place additional strain on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the fuse manufacturers.



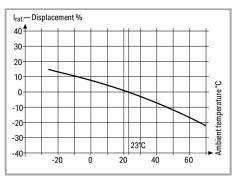




Application Notes on Terminal Blocks for Miniature Metric Fuses Application Notes on Terminal Blocks for Miniature Metric Fuses

Diagram: Individual arrangement

Diagram: Block arrangement



Application Notes on Terminal Blocks for Miniature Metric Fuses

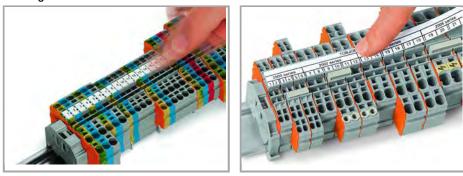
Nominal current ratings for fuse cartridges are defined differently in international standards. This is why the recommended continuous current-carrying capacity of the fuses is max. 80 % of their nominal current according to DIN 72581/Part 3 (for an ambient operating temperature of 23 °C). Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).



Information from the mini-automotive, blade-type fuse manufacturers				
Derating T _{amb} /°C	%	FT		
-25	14	0.877		
-20	13	0.885		
-15	12	0.893		
- 10	11	0.901		
- 5	10	0.909		
0	9	0.917		
5	8	0.926		
10	6	0.943		
15 20	4	0.962 0.980		
23 30 35	- 2 - 4	1.000 1.020 1.042		
40	- 6	1.064		
45	- 8	1.087		
50	-10	1.111		
55	- 13	1.149		
60	- 16	1.190		
65	-19	1.235		
70	-22	1.282		

For product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

Marking



Snapping WMB Inline markers into marker slots.

Product family

TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of railmount terminal blocks provides more than just reliable electrical connections.

Show all products from the family