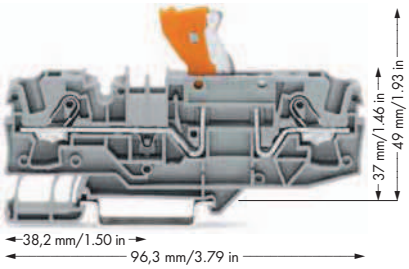
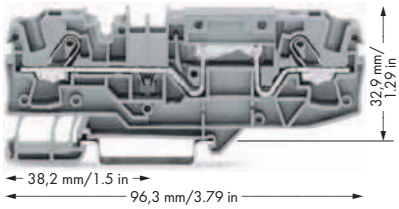
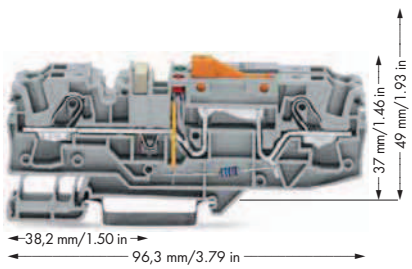
TOPJOB®S
Disconnect and Ground Conductor Disconnect Terminal Blocks
6 (10) mm² / 30 A and Through Terminal Blocks of Same Profile, 2006 Series

0.5 - 6 (10) mm² ❶ | AWG 20 - 8 **800 V/8 kV/3 ❷** **I_N 30 A** **Terminal block width 7.5 mm / 0.295 in** **13 - 15 mm / 0.55 in ❸**	**0.5 - 6 (10) mm² ❶ | AWG 20 - 8** **800 V/8 kV/3 ❷** **I_N 30 A** **Terminal block width 7.5 mm / 0.295 in** **13 - 15 mm / 0.55 in ❸**	**0.5 - 6 (10) mm² ❶ | AWG 20 - 8** **Terminal block width 15 mm / 0.591 in** **13 - 15 mm / 0.55 in ❸**







	Item No.	Pack. Unit
2-conductor disconnect terminal block,		
with test point,		
orange disconnect link		
gray	**2006-1671**	25
blue	**2006-1674**	25
Other terminal blocks with the same profile:		
Through	**2006-1601** Page 108	

	Item No.	Pack. Unit
2-conductor through terminal block,		
with test point,		
same profile as 2-conductor disconnect terminal block		
gray	**2006-1601**	25
blue	**2006-1604**	25
Other terminal blocks with the same profile:		
Carrier	**2006-1661** Page 116	
Fuse	**2006-1681** Page 111	

	Item No.	Pack. Unit
Ground conductor disconnect terminal block,		
with test point,		
orange disconnect link, gray		
24 V	**2006-1671/1000-848**	12
48 V	**2006-1671/1000-849**	12
120 V	**2006-1671/1000-850**	12
230 V	**2006-1671/1000-851**	12
Other terminal blocks with the same profile:		
Through	**2006-1601**	Page 108

Item-Specific Accessories

Push-in type jumper bar, insulated,			
	I_N 41 A,		
	light gray		
	2-way	**2006-402**	50 (2x25)
	3-way	**2006-403**	50 (2x25)
	4-way	**2006-404**	50 (2x25)
	5-way	**2006-405**	50 (2x25)
Push-in type jumper bar, insulated,			
	I_N 41 A,		
	light gray		
	from 1 to 3	**2006-433**	50 (2x25)
	from 1 to 4	**2006-434**	50 (2x25)
	from 1 to 5	**2006-435**	50 (2x25)
Star point jumper, insulated,			
	I_N = I_N terminal block, light gray		
	1-3-5	**2006-405/011-000**	50 (2x25)

Item-Specific Accessories

Push-in type jumper bar, insulated,			
	I_N 41 A,		
	light gray		
	2-way	**2006-402**	50 (2x25)
	3-way	**2006-403**	50 (2x25)
	4-way	**2006-404**	50 (2x25)
	5-way	**2006-405**	50 (2x25)
Push-in type jumper bar, insulated,			
	I_N 41 A,		
	light gray		
	from 1 to 3	**2006-433**	50 (2x25)
	from 1 to 4	**2006-434**	50 (2x25)
	from 1 to 5	**2006-435**	50 (2x25)
Star point jumper, insulated,			
	I_N = I_N terminal block, light gray		
	1-3-5	**2006-405/011-000**	50 (2x25)

Item-Specific Accessories

Push-in type jumper bar, insulated,			
	I_N 41 A,		
	light gray		
	2-way	**2006-402**	50 (2x25)

2006 Series Accessories

Appropriate marking systems: WMB/Marking strips
(see Section 13)

End and intermediate plate, 1 mm thick			
	orange	**2006-1692**	100 (4x25)
	gray	**2006-1691**	100 (4x25)
Protective warning marker,			
	with high-voltage symbol, black,		
	for 5 terminal blocks		
	yellow	**2006-115**	100 (4x25)

Double-deck marker carrier,			
	pivoting		
	gray	**2002-121**	50 (2x25)
WMB Multi marking system,			
	10 strips with 10 markers per card,		
	stretchable 5 - 5.2 mm		
	plain	**793-5501**	5
Marking strip, plain,			
	11 mm wide,		
	50 m roll		
	white	**2009-110**	1

Screwless end stop,			
	for DIN 35 rail,		
	6 mm wide		
	gray	**249-116**	100 (4x25)
Screwless end stop,			
	for DIN 35 rail,		
	10 mm wide		
	gray	**249-117**	50 (2x25)

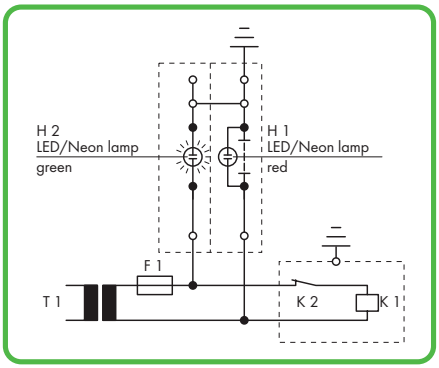
For list of approvals and user guide, see pages 634 to 637.

Disconnect and Ground Conductor Disconnect Terminal Blocks

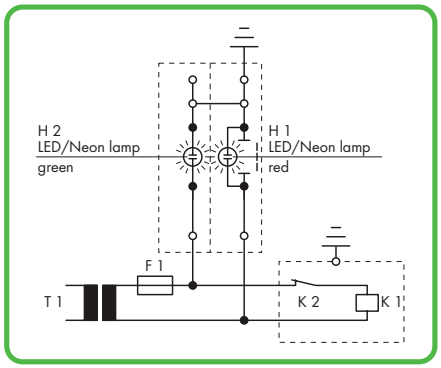


Ground conductor disconnect terminal block – top view

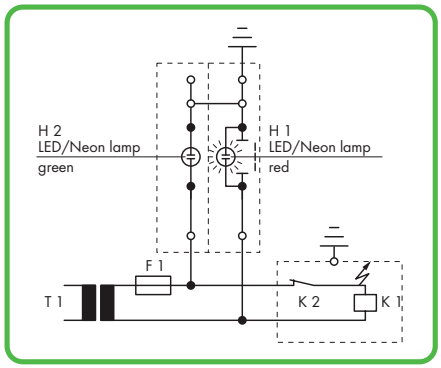
1. Conductor sizes: 0.5 mm² – 10 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 10 mm² "s" and 1.5 mm² – 6 mm² "insulated ferrule, 12 mm"
2. 800 V = rated voltage
   8 kV = rated surge voltage
   3 = pollution degree
   (also see Section 14)
3. Strip length, see packaging or instructions.



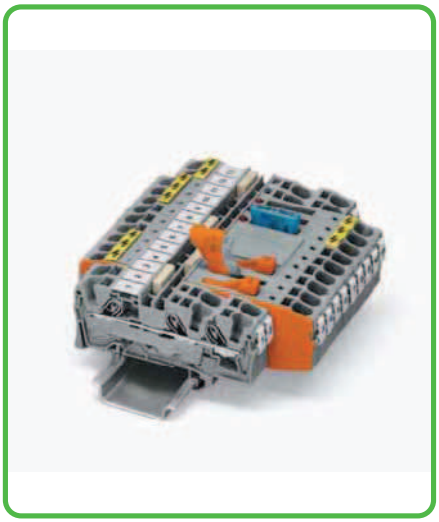
Operating condition
Slide link closed, auxiliary circuit grounded, green lamp illuminates.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red lamp illuminates.



Terminal block assembly including:
Through terminal blocks
N-conductor disconnect terminal blocks
Fuse terminal blocks for mini-automotive fuses

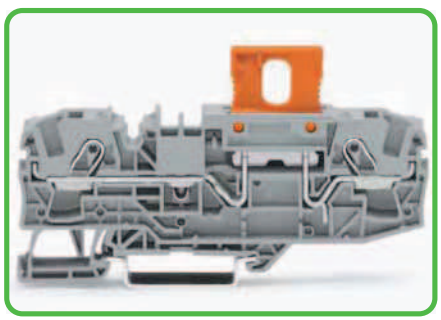
IEC 60204/DIN VDE 0113 "Electrical equipment of industrial machines, part 1: General requirements" 9.4.3.1:

Ground faults on control circuits shall not cause unintentional starting, hazardous movements or prevent stopping the machine.

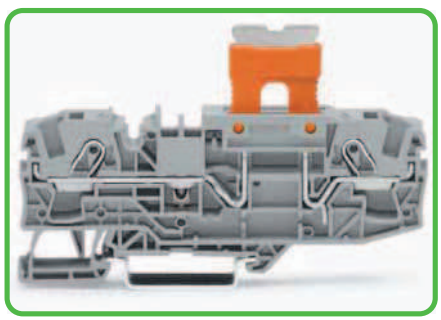
In order to fulfill this requirement, bonding to the protective bonding circuit shall be provided in accordance with 8.2 and the devices shall be connected as described in 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit shall be provided with an insulation monitoring device (e.g., residual current device), which either indicates an ground fault or interrupts the circuit automatically after an ground fault.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons electronic circuits cannot be connected to the protective bonding circuit, other measures shall be taken to achieve the same level of safety.

Multipole control switches which interrupt all live conductors shall be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance.
This is required for starting or stopping those machine functions, which can cause a hazardous situation including: damaging the machine or halting the work in progress, in the event of unintentional starting or failure to stop.



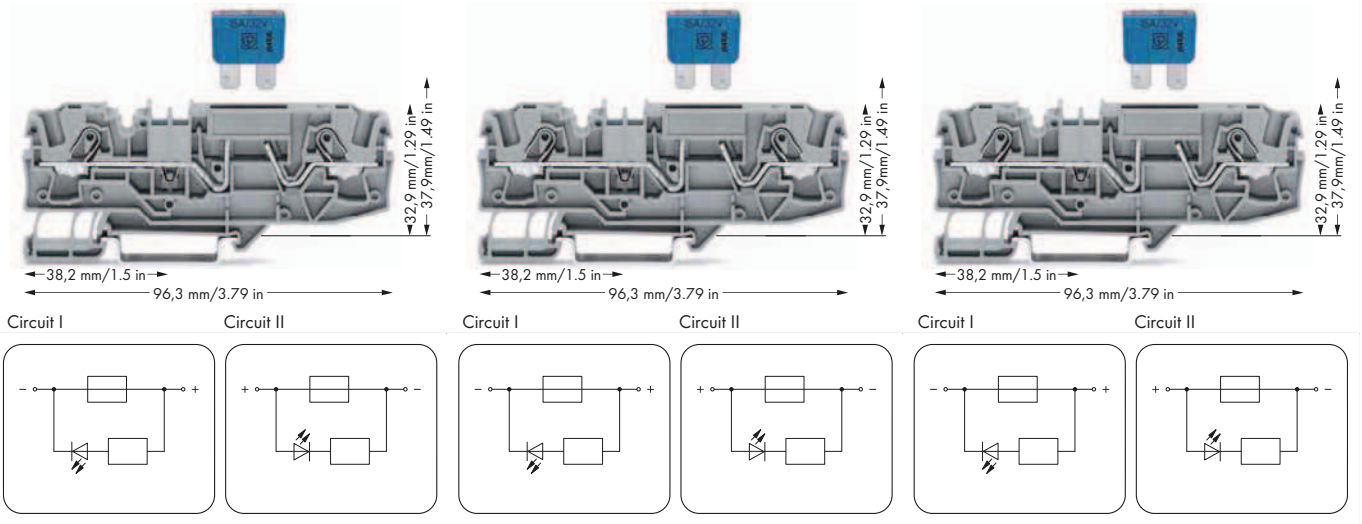
Carrier terminal block with disconnect plug in operating position.



Carrier terminal block with disconnect plug in parked position.

TOPJOB®S
Fuse Terminal Blocks for Mini-Automotive Blade-Style Fuses 6 (10) mm²
2006 Series

0.5 - 6 (10) mm² ❶ | AWG 20 - 8 **500 V/8 kV/3 ❷** **I_N 25 A (30 A) ❸** **Terminal block width 7.5 mm / 0.295 in** **13 - 15 mm / 0.55 in ❹**	**0.5 - 6 (10) mm² ❶ | AWG 20 - 8** **500 V/8 kV/3 ❷** **I_N 25 A (30 A) ❸** **Terminal block width 7.5 mm / 0.295 in** **13 - 15 mm / 0.55 in ❹**	**0.5 - 6 (10) mm² ❶ | AWG 20 - 8** **500 V/8 kV/3 ❷** **I_N 25 A (30 A) ❸** **Terminal block width 7.5 mm / 0.295 in** **13 - 15 mm / 0.55 in ❹**



Item No.		Pack. Unit
2-conductor fuse terminal block for mini-automotive blade-style fuses,		
12V, with test point, with blown fuse indication by LED,		
LED power consumption: 4.8 mA, gray		
Nominal voltage and current are given by the LED or fuse.		
Blade-style fuses, please note touchproof protection for		
42V and higher.		
◯ Circuit I	**2006-1681/1000-429**	25
◯ Circuit II	**2006-1681/1000-449**	25
Other terminal blocks with the same profile:		
Through	**2006-1601**	Page 108

Item No.		Pack. Unit
2-conductor fuse terminal block for mini-automotive blade-style fuses,		
24V, with test point, with blown fuse indication by LED,		
LED power consumption: 4.8 mA, gray		
Nominal voltage and current are given by the LED or fuse.		
Blade-style fuses, please note touchproof protection for		
42V and higher.		
◯ Circuit I	**2006-1681/1000-413**	25
◯ Circuit II	**2006-1681/1000-434**	25

Item No.		Pack. Unit
2-conductor fuse terminal block for mini-automotive blade-style fuses,		
48V, with test point, with blown fuse indication by LED,		
LED power consumption: 4.8 mA, gray		
Nominal voltage and current are given by the LED or fuse.		
Blade-style fuses, please note touchproof protection for		
42V and higher.		
◯ Circuit I	**2006-1681/1000-414**	25
◯ Circuit II	**2006-1681/1000-435**	25

2006 Series Accessories

Appropriate marking systems: WMB/Marking strips
(see Section 13)

End and intermediate plate, 1 mm thick



orange	**2006-1692**	100 (4x25)
gray	**2006-1691**	100 (4x25)

Push-in type jumper bar, insulated,



I_N 41 A, light gray

2-way	**2006-402**	50 (2x25)
3-way	**2006-403**	50 (2x25)
4-way	**2006-404**	50 (2x25)
5-way	**2006-405**	50 (2x25)

Push-in type jumper bar, insulated,



I_N 41 A, light gray

from 1 to 3	**2006-433**	50 (2x25)
from 1 to 4	**2006-434**	50 (2x25)
from 1 to 5	**2006-435**	50 (2x25)

Protective warning marker,



with high-voltage symbol, black, for 5 terminal blocks

yellow	**2006-115**	100 (4x25)

WMB Multi marking system,

10 strips with 10 markers per card, stretchable 5 - 5.2 mm

plain	**793-5501**	5

Marking strip, plain,



11 mm wide, 50 m roll

white	**2009-110**	1

Double-deck marker carrier,



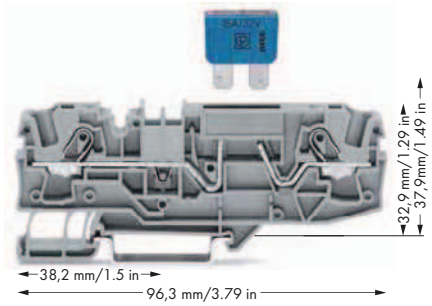
pivoting

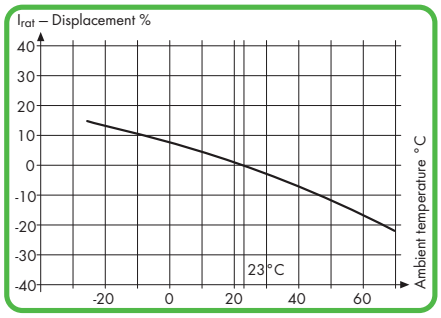
gray	**2002-121**	50 (2x25)

For list of approvals and user guide, see pages 634 to 637.

0.5 - 6 (10) mm² ❶ | AWG 20 - 8
500 V/8 kV/3 ❷
I_N 25 A (30 A) ❸

Terminal block width 7.5 mm / 0.295 in
13 - 15 mm / 0.55 in ❹





❶ Conductor sizes: 0.5 mm² – 10 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 10 mm² "s" and 1.5 mm² – 6 mm² "insulated ferrule, 12 mm"

❷ 500 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❸ LED power consumption: 4.8 mA

❹ Strip length, see packaging or instructions.

	Item No.	Pack. Unit
2-conductor fuse terminal block for mini-automotive blade-style fuses,		
with test point,		
without blown fuse indication		
Nominal voltage and current are given by the fuse. Blade-style fuses, please note touchproof protection for 42V and higher.		
gray	**2006-1681**	25

Blade-style fuses
(not offered by WAGO)

Excess-current circuit-breaker, thermal
(not offered by WAGO)
Recommended excess-current circuit-breakers from ETA

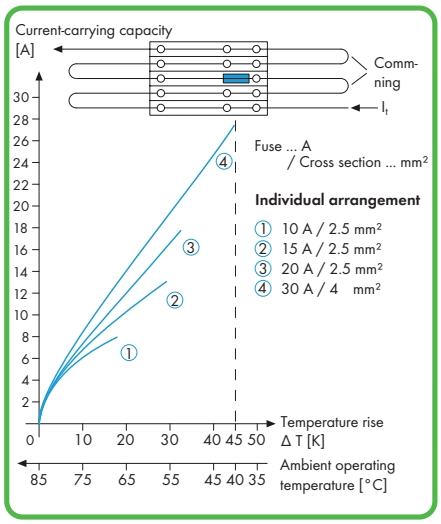


Diagram: Individual arrangement

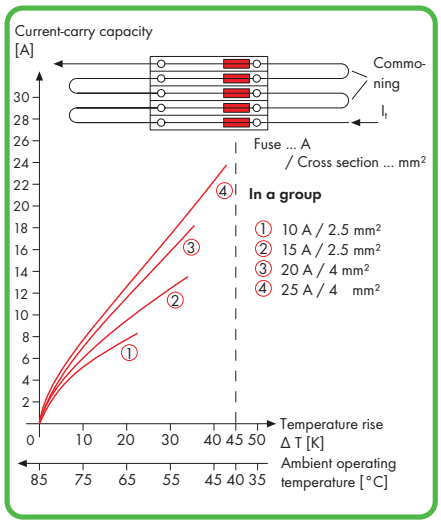


Diagram: Block arrangement

The rated currents of the fuse cartridges are defined differently in international standards. Due to the different current rating definitions, the recommended current-carrying permanent capacity of the fuses is max. 80% of their rated 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 may be used as protection (break-off point) if they are properly selected and used according to manufacturer specifications.

Information from the mini-automotive blade-type fuse manufacturers

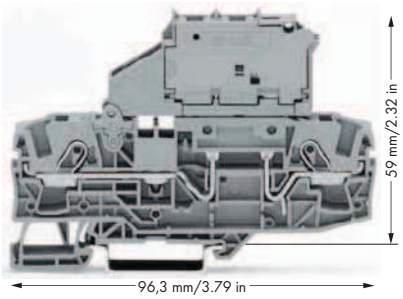
Derating T_{amb} /°C	%	F_T
- 25	14	0.877
- 20	13	0.885
- 15	12	0.893
- 10	11	0.901
- 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	- 2	1.020
35	- 4	1.042
40	- 6	1.064
45	- 8	1.087
50	- 10	1.111
55	- 13	1.149
60	- 16	1.190
65	- 19	1.235
70	- 22	1.282

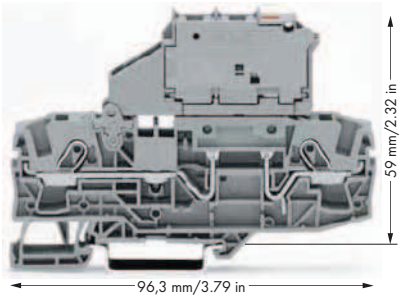
Regarding product safety, it is in generally necessary to test fuse cartridges under normal conditions and operational failures within your application.

TOPJOB®S
Fuse Disconnect Terminal Blocks with Pivoting Fuse Holder for Miniature Metric Fuses 5 x 20 mm, 5 x 30 mm, ¼" x1¼", 2006 Series

CAGE CLAMP®S

0.5 - 6 (10) mm² ❶ | AWG 20 - 8 800 V/8 kV/3 ❷ | 600 V, 15 A I_N 10 A Terminal block width 7.5 mm / 0.295 in 13 - 15 mm / 0.55 in ❸	0.5 - 6 (10) mm² ❶ | AWG 20 - 8 800 V/8 kV/3 ❷ I_N 10 A Terminal block width 7.5 mm / 0.295 in 13 - 15 mm / 0.55 in ❸





❶ Conductor sizes: 0.5 mm² – 10 mm² "s + f-st"; Push-in conductor sizes: 1 mm² – 10 mm² "s" and 1.5 mm² – 6 mm² "insulated ferrule, 12 mm"

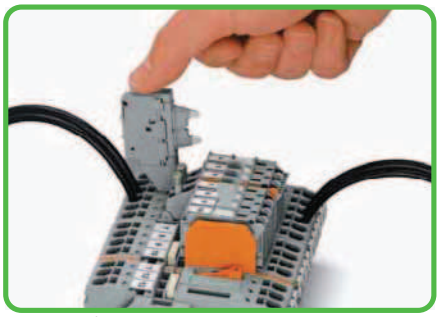
❷ 800 V = rated voltage
8 kV = rated surge voltage
3 = pollution degree
(see Section 14)

❸ Strip length, see packaging or instructions.

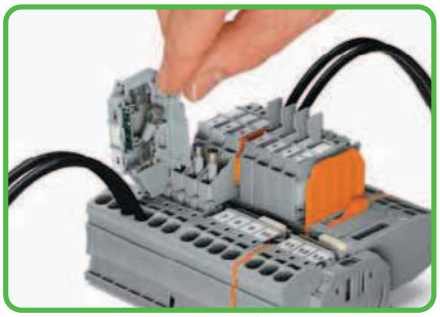
❹ See application notes for:
Star point jumper, page 140

	Item No.	Pack. Unit
2-conductor fuse disconnect terminal block with pivoting fuse holder,		
without blown fuse indication		
Nominal voltage and current are given by the fuse.		
for miniature metric fuses 5 x 20 mm		
gray	**2006-1611**	25
for miniature metric fuses 5 x 30 mm		
gray	**2006-1621**	25
for miniature metric fuses 1/4" x 11/4"		
gray	**2006-1631**	25

	Item No.	Pack. Unit
2-conductor fuse disconnect terminal block with pivoting fuse holder, gray,		
with blown fuse indication by LED		
Nominal voltage and current are given by the LED or fuse.		
Leakage current in case of blown fuse: LED 2 mA,		
for miniature metric fuses 5 x 20 mm		
12 - 30 V	**2006-1611/1000-541**	25
30 - 65 V	**2006-1611/1000-542**	25
120 V	**2006-1611/1000-867**	25
230 V	**2006-1611/1000-836**	25
for miniature metric fuses 5 x 30 mm		
12 - 30 V	**2006-1621/1000-541**	25
30 - 65 V	**2006-1621/1000-542**	25
120 V	**2006-1621/1000-867**	25
230 V	**2006-1621/1000-836**	25
380 - 500 V	**2006-1621/1000-859**	25
for miniature metric fuses 1/4" x 11/4"		
12 - 30 V	**2006-1631/1000-541**	25
30 - 65 V	**2006-1631/1000-542**	25
120 V	**2006-1631/1000-867**	25
230 V	**2006-1631/1000-836**	25
380 - 500 V	**2006-1631/1000-859**	25



Pivoting the fuse holder in the locked open position.



Opening the cover to replace the fuse.

2006 Series Accessories

Appropriate marking systems: WMB/Marking strips (see Section 13)

End and intermediate plate, 1 mm thick			
orange	**2006-1692**	100 (4x25)	
gray	**2006-1691**	100 (4x25)	
End plate for fuse terminal blocks,			
2 mm thick			
orange	**2006-992**	100 (4x25)	
gray	**2006-991**	100 (4x25)	
Push-in type jumper bar, insulated,			
I_N 41 A,			
light gray			
2-way	**2006-402**	50 (2x25)	
3-way	**2006-403**	50 (2x25)	
4-way	**2006-404**	50 (2x25)	
5-way	**2006-405**	50 (2x25)	
Star point jumper, insulated,			
❹ I_N = I_N terminal block, light gray			
1-3-5	**2006-405/011-000**	50 (2x25)	

Push-in type jumper bar, insulated,			
I_N 41 A,			
light gray			
from 1 to 3	**2006-433**	50 (2x25)	
from 1 to 4	**2006-434**	50 (2x25)	
from 1 to 5	**2006-435**	50 (2x25)	
Protective warning marker,			
with high-voltage symbol, black,			
for 5 terminal blocks			
yellow	**2006-115**	100 (4x25)	
Test plug,			
with 500 mm cable,			
2 mm Ø			
red	**210-136**	50	
WMB Multi marking system,			
10 strips with 10 markers per card,			
stretchable 5 - 5.2 mm			
plain	**793-5501**	5	

For list of approvals and user guide, see pages 634 to 637.