



# UL 508

Busbar system in compliance with UL norm

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**UL 508**

# Progress is the result of proven experiences

Over decades, Wöhner developed continuously into a premium provider of systems which are now used worldwide. This success is largely based on intensive and long-term cooperation with our customers. In conjunction with our customers, we will continue to develop innovative solutions which meet the demands of various applications, markets and ideas.

## Proven application: the 60-mm busbar system

The first busbar systems for distributing electrical energy were used shortly after electricity was widely used. The simple and safe construction of an entire series of safety devices for electrical consumers and the clarity and compact layout led to this system. The Wöhner 60mm busbar system was adapted to the D fuses which already became common in Europe several decades ago. It is characterised by a center-to-center distance of 60mm between the busbars..

Moreover, the 60mm system allows a wide range of busbars to be used in spite of its small external dimensions, thus offering the option of simple adaptation to a wide range of amperages.



For example, flat busbars up to 30 x 10mm allow 630 A to be distributed safely and compactly. With the same dimensions and mounting components, the current can even be increased to 2500A using the Wöhner system.

Nowadays, electrical enclosures contain an assortment of different components, including fuses, circuit breakers, contactors, SCR's, etc. A wide range of adaptors, which allow these devices to be mounted to the busbar system without drilling, are available.

As a result of these and many other advantages, this particularly safe, space-saving and clearly laid out design has established itself in mechanical and plant engineering worldwide.

# The UL 508 Challenge

## What is changing?

### The new parameters

The requirements for the North-American market are set by Underwrites Laboratories, or UL. UL interprets the National Electrical Code (NEC) and devises the test parameters used to determine conformance to the NEC and safe application of the product. The components for industrial control panels are covered by UL 508. Devices for controlling systems and for monitoring and protecting motors are dealt with under the heading "Industrial Control Equipment".

Historically, Industrial Control Panels were considered a special application that allowed for tighter clearances between live conductors. UL 508 is a new set of restrictions that conform to the general wiring requirements listed in the NEC. A clearance of 1 inch (25.4mm) and a creepage distance of 2 inches (50.8mm) must be maintained between the phases. The clearance and creepage distance between grounded insulated metal parts such as the mounting plate must be 1 inch. These changes represent a doubling of the values previously required, which are still the standard in Europe.

The requirements have been defined by NEC for some time. The UL508 was revised and now our products are redeveloped to meet the new requirements of this standard.





Wöhner reacts logically, in a market-oriented and systematic way.



### Wöhner sees the challenges



The decisive factor in sharing success with our customers is the adaptability of our system. The variety, flexibility and in particular, the safety stand for the Wöhner 60mm system. In this way, we guarantee worldwide applicability with a new busbar support and the new bottom trough.



Other stipulations of UL 508A (for industrial control panel enclosures) result in reductions in the current-carrying capacity of busbars allowed by the IEC. In North America, the current carrying capacity of copper busbars is defined as 1000A per square inch or 1.55A/mm<sup>2</sup>.



For example, 30 x 10mm busbars, have a cross section surface area of 300mm<sup>2</sup>, resulting in a maximum permitted current of 465A (compared with 630A in accordance with IEC). With double T profile busbars, Wöhner attains up to 1116A in accordance with the UL requirements, triple T profiles carry up to 1767A.



# Wöhner creates new possibilities

## Modifications in accordance with UL 508

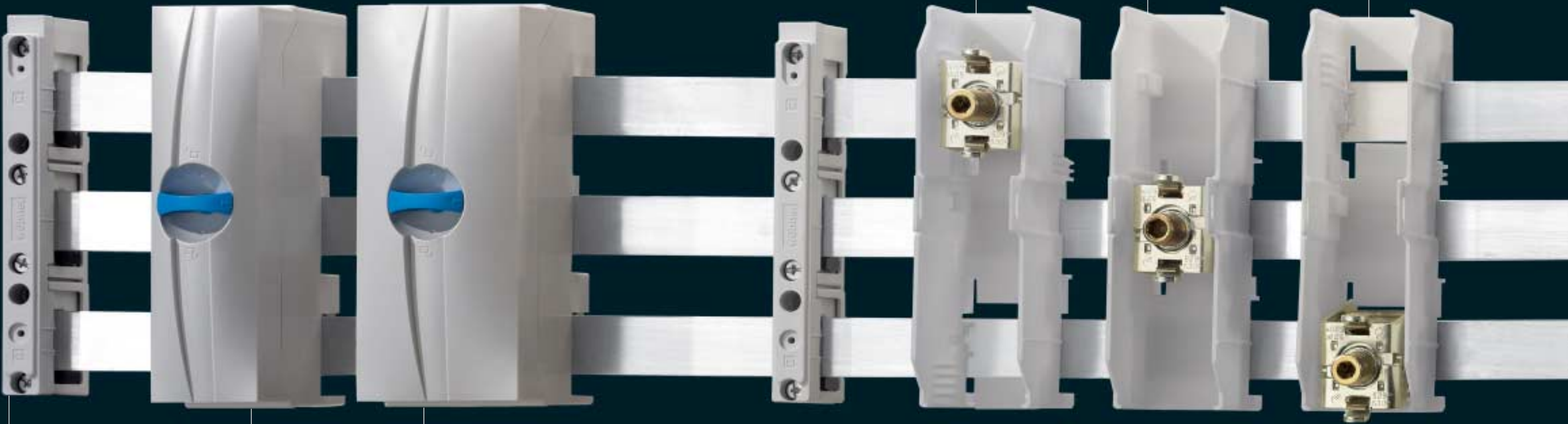
Wöhner has always looked to people's needs and safety requirements. That applies both for our own staff and for our customers. Thus, we continually develop innovative products, such as the QUADRON® J-Carrier, a bus-mounting fuse holder for Class J fuses, which conform to the American standards.

This information brochure for our customers does not focus on spectacular innovations, it is about a multitude of alterations and adaptations, often substantial and accompanied by extensive testing.

The following pages contain detailed information on the UL-compliant 60mm system. The back section contains order data for our products which can be used unrestrictedly in accordance with UL 508.

All approvals in our 2005 product manual continue to apply. However, some restrictions must be noted: For example, the new expanded clearance and creepage distances also had to be observed for universal conductor terminals. We always recommend that you use terminal plate assemblies instead of individual terminals.

**Solutions** for a continuous busbar system in accordance with the UL standard



**Page 16** **New**  
Busbar support compliant with UL 508 with 60mm system spacing  
3-pole with internal screw holes  
For 12, 20 and 30mm wide busbars 5 and 10mm thick.  
For applications in accordance with UL 508A, we recommend using a bottom trough  
Accessories: End cover 01 573, Page 15  
Other busbar supports and busbars, Page 16 and 17

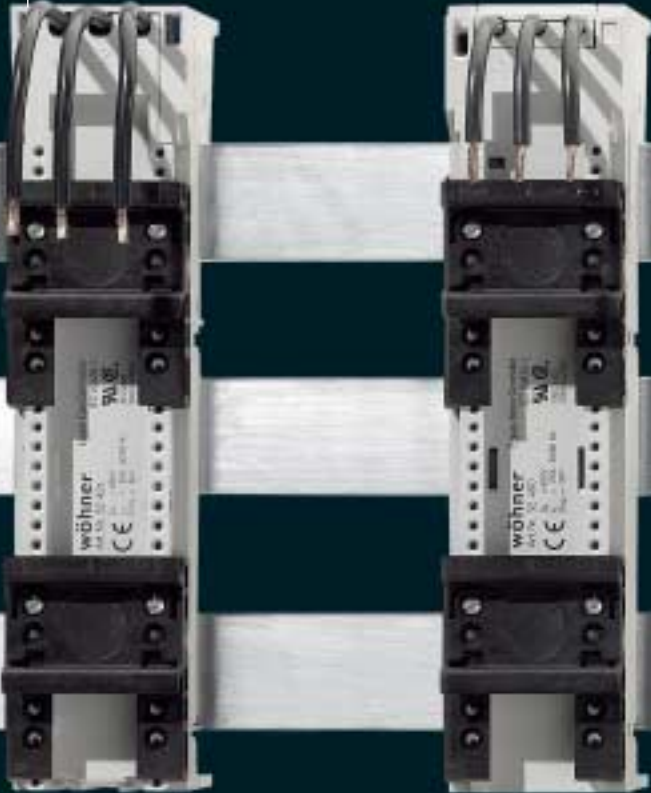
**Page 18** **Connecting terminal plates**  
Compact connection of a wide range of conductors  
Isolated from the busbars and between the phases  
Cover cap and system shrouding integrated  
54mm wide for 6-50 mm<sup>2</sup>/AWG 10 to 1/0 conductors  
81mm wide for 35-120 mm<sup>2</sup>/AWG 6 to 250 MCM conductors

**Page 18** **New**  
3-pole connection set  
Pole distance can be set as required  
System shrouding integrated  
For 95 - 300 mm<sup>2</sup> /3/0 to 600 MCM round conductors  
For flat conductors up to 32 x 20mm  
Accessories: Flexible cover caps / system cover, page 18

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**EQUES®EasyConnector**

- Busbar adaptors in the 60mm busbar system
- Easy connection for a wide range of switchgear of all manufacturers
- Flexible for amperages from 16 to 80A
- Variable in width and length
- Special designs for certain switchgear combinations, Page 22 and 23



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**EQUES®MotorController**

- Convenient busbar adaptor
- Complex solutions for new demands
- Double structure for more safety: Busbars always shock-protected
- Plug-in connector for control lines as an accessory
- Accessories: Microswitch, can be integrated for controlled load release, Page 21

Page 23

**Busbar adaptor**

- For special circuit breakers up to 630A
- Compact structure
- Simple power transfer
- Shock proof
- Other designs in preparation

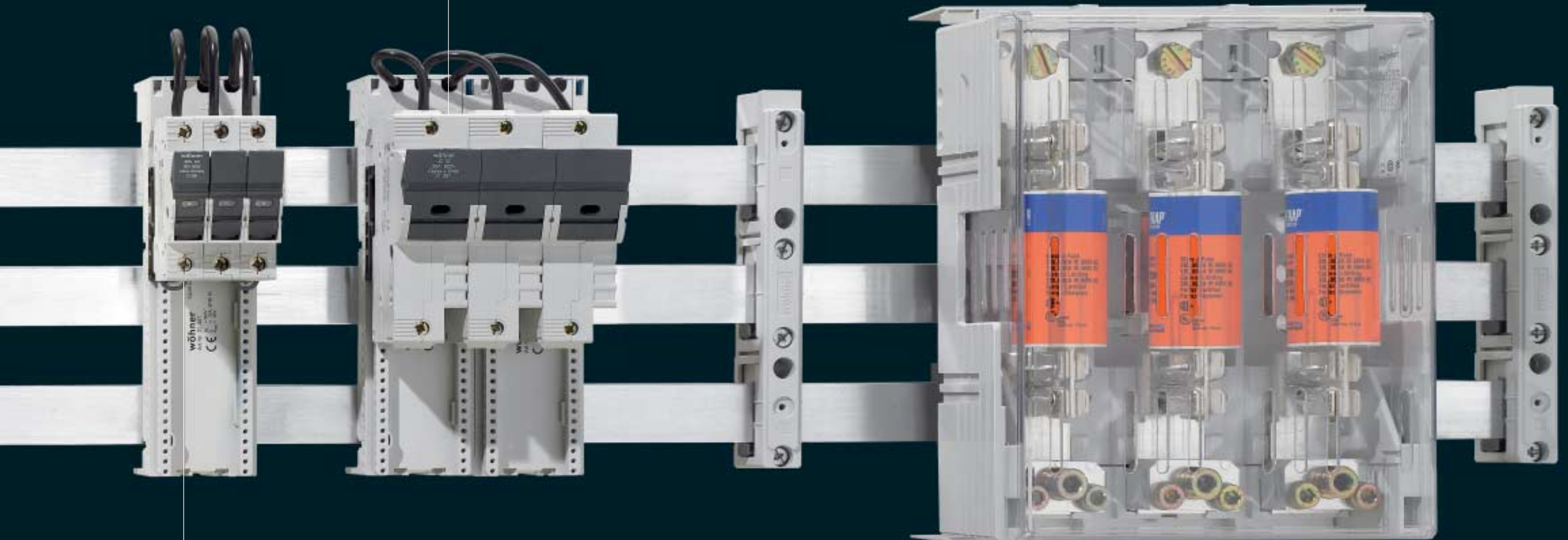


**More questions?** Call Wöhner's UL-508 hotline  
for Europe call (+49) 95 63/751 508  
for North America call (+1) 603/926 1095

- Page 24 — **AMBUS®J-Carrier**
- For class J fuses
  - 1-, 2- and 3-pole structure
  - 2 sizes up to 60A
  - Complies with UL 248-8
  - Accessories: Class J fuses, Page 26 and 27

- Page 24 — **AMBUS®EasySwitch Class CC**
- For class CC fuses
  - 1-, 2- and 3-pole structure
  - Models with light indicator
  - Complies with UL 248-4
  - Accessories: Class CC fuses, Page 25

- Page 23 — **QUADRON®J-Carrier**
- Bus-mounting fuse holder in the 60mm system
  - For class J fuses
  - Cover cap included
  - 3 sizes for fuses from 70A to 400A
  - Also model for panel mounting, Page 24
  - Accessories: Class J fuses, Page 26 and 27



# The 60mm system

## UL busbar support

For 12, 20, 30 x 5/10mm busbars

Type	Pack size	Weight kg/%	Price €/unit	Part no.
3-pole with internal screw holes	10	12.70		01 508

## Earth/neutral busbar supports

For 12, 15, 20, 25, 30 x 5/10mm busbars

Type	Pack size	Weight kg/%	Price €/unit	Part no.
1-pole for mounting individually and for attaching to busbar support 01 500 incl. earth and neutral labels	10	5.90		01 489

## End cover

for covering busbar ends

Type	Pack size	Weight kg/%	Price €/unit	Part no.
For 01 508 (and 01 495, 01 500 and 01 484)	10	2.00		01 573

## Bottom trough

for UL busbar support 01 508, 01 231 and 01 232

Type W x L	Application	Pack size	Weight kg/%	Price €/unit	Part no.
230 x 1100mm	3-pole	2	110.00		01 518
230 x 700mm	3-pole	2	70.00		01 515

## Busbar supports

for double-T section

Type	Pack size	Weight kg/%	Price €/unit	Part no.
1-pole, without end cover	10	15.80		01 876
3-pole, without end cover	3	59.10		01 231

## Busbar supports

for triple-T section

Type	Pack size	Weight kg/%	Price €/unit	Part no.
3-pole, without end cover	2	69.70		01 232

## End cover

Type	Pack size	Weight kg/%	Price €/unit	Part no.
For 01 231 and 01 232	4	4.80		01 234

## E/CU busbar

tin-plated, shorter lengths on request

Dimensions	Length	Rated current		Pack size	Weight kg/%	Price €/unit	Part no.
		Complies with IEC	Compl. with UL 508A				
12 x 5mm	2.40 m	200A	93A	1	128.20		01 618
20 x 5mm	2.40 m	320A	155A	1	213.60		01 620
30 x 5mm	2.40 m	450A	232A	1	320.40		01 622
12 x 10mm	2.40 m	360A	186A	1	256.30		01 623
20 x 10mm	2.40 m	520A	310A	1	427.20		01 624
30 x 10mm	2.40 m	630A	465A	1	640.80		01 625
30 x 10mm	3.60 m	630A	465A	1	961.00		01 204
Double-T section busbar	2.40 m	1250A	775A	1	1044.00		01 609
	3.60 m	1250A	775A	1	1566.00		01 224
	2.40 m	1600A	1116A	1	1540.00		01 608
	3.60 m	1600A	1116A	1	2310.00		01 190
Double-T section busbar non tin-plated	2.40 m	1250A	775A	1	1044.00		01 250
	3.60 m	1250A	775A	1	1566.00		01 223
	2.40 m	1600A	1116A	1	1540.00		01 249
	3.60 m	1600A	1116A	1	2310.00		01 229
triple-T section busbar	2.40 m	2500A	1767A	1	2436.00		01 187
	3.60 m	2500A	1767A	1	3654.00		01 227

## Reserve section cover

Type	Pack size	Weight kg/%	Price €/unit	Part no.
1100mm long, can only be used with mount 01 026	2	75.00		01 025

## Mount

Type	Pack size	Weight kg/%	Price €/unit	Part no.
For reserve section cover 01 025	10	3.90		01 026

can be used for 12 to 30 x 5/10, double-T and triple-T section

## Busbar cover, length 1m

Busbars	Pack size	Weight kg/%	Price €/unit	Part no.
12 – 30 x 5mm	10	8.70		01 244
12 – 30 x 10mm	10	10.10		01 245
double-T and triple-T section	5	38.00		01 252
12 x 5mm	10	3.20		78 463

Connecting terminal plate for 12 x 5 – 30 x 10mm

and double-T and triple-T section, 3-pole, with cover cap

Connection	W x H mm	Can be used up to max.	Pack size	Weight kg/%	Price €/unit	Part no.
6 – 50mm²/AWG 10 to 1/0	54 x 200	300A	1	45.10		01 240
35 – 120mm², rm, f, f +AE, fl. Cu 6/10 x 15.5 x 0.8/AWG 6 to 250MCM	81 x 200	440A	1	53.50		01 243

Accessories

Type	Pack size	Weight kg/%	Price €/unit	Part no.
Individual cover for the terminals in 01 240	3	0.40		01 300
Individual cover for the terminals in 01 243	3	0.50		01 301

Connection set, 3-pole for 20 x 5 – 30 x 10mm

and double-T and triple-T section, without cover caps

Connection	Can be used up to max.	Pack size	Weight kg/%	Price €/unit	Part no.
Cu and Al* 3/0 to 350 MCM, rm, sm, f	460A	1	122.00		01 526
Cu and Al* 300 to 600 MCM, rm, sm, f	560A	1	155.50		01 537
Flat busbars up to 32 x 20mm	800A	1	132.50		01 538

\*Connections with aluminium conductors are not maintenance-free (see P. 9/2 in PM 2005).  
Available after November 2005

Cover cap/system cover

Type	Width	Pack size	Weight kg/%	Price €/unit	Part no.
Cover cap kit form	180mm	1	39.50		01 539
Cover cap kit form	250mm	1	44.00		01 540
Holder for cover sections	15mm	1 pair	9.00		01 552
Front cover section (in conj. with holder 01 552)	1100mm	1	42.00		01 554
Top/bottom cover section (in conj. with holder 01 552)	1100mm	2	15.00		01 555

Available after November 2005

Profile terminals

for double-T section busbars

Connection cross-section	Terminal space W x H in mm	Can be used up to max.	Pack size	Weight kg/%	Price €/unit	Part no.
500 – 750mm²	51 x 5 – 28	1600A	3	70.50		01 906
600 – 900mm²	64 x 5 – 28	1600A	3	84.00		01 907
400 – 800mm²	41 x 20 – 42	1600A	3	67.00		01 185
500 – 1000mm²	51 x 20 – 42	1600A/2000A*	3	73.50		01 936
600 – 1200mm²	64 x 20 – 42	1600A/2000A*	3	85.90		01 911
800 – 1600mm²	81 x 20 – 42	1600A/2500A*	3	101.10		01 934
1000 – 2000mm²	101 x 20 – 42	1600A/2800A*	3	113.70		01 935

For connecting flat busbars and flexible copper busbars  
\* For centre feed

Profile terminals

for triple-T section busbars

Connection cross-section	Terminal space W x H in mm	Can be used up to max.	Pack size	Weight kg/%	Price €/unit	Part no.
400 – 800mm²	41 x 20 – 42	1600A	3	99.00		01 513
500 – 1260mm²	64 x 23 – 45	2500A	3	124.00		01 008
1200 – 3600mm²	101 x 23 – 45	3200A	3	172.70		01 186

Cover for profile terminals\*

For terminal width	For busbars	Pack size	Weight kg/%	Price €/unit	Part no.
41 and 51mm	Double-T	3	6.50		01 520
64 and 81mm	Double-T	3	8.00		01 521
101mm	Double-T	3	9.00		01 522
41mm	Triple-T	3	8.00		01 523
64mm	Triple-T	3	9.00		01 524
101mm	Triple-T	3	10.50		01 525

\* Required for applications which comply with UL 508A

EQUES®EasyConnector

EQUES®EasyConnector 25A

Busbar adaptor, with AWG 12 conductors ≙ 4mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
16A, 2 mounting rails, Conductors 2.5mm², 125mm long	45mm	200mm	4	31.00		32 429
1 mounting rail	45mm	200mm	4	32.50		32 430
2 mounting rails	45mm	200mm	4	32.60		32 431
2 mounting rails	90mm	200mm	2	57.10		32 432
2 mounting rails	45mm	260mm	4	35.70		32 433

EQUES®EasyConnector 25A

Busbar adaptor, with 6mm² (AWG 10) terminals, without conductors

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
2 mounting rails	45mm	200mm	4	32.20		32 436
2 mounting rails	45mm	260mm	4	35.20		32 439
Terminal cap, for applications subject to UL 508A			4	0.70		32 973

EQUES®EasyConnector 32 A

Busbar adaptor, with AWG 10 conductors ± 6mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
1 mounting rail	54mm	200mm	4	36.60		32 441
2 mounting rails	54mm	200mm	4	38.00		32 442
1 mounting rail	63mm	200mm	4	42.00		32 443
1 mounting rail	72mm	200mm	4	44.30		32 444
2 mounting rails	81mm	200mm	4	49.50		32 446
2 mounting rails	54mm	260mm	4	43.30		32 449

EQUES®EasyConnector 63A

Busbar adaptor, with AWG 8 conductors ± 10mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
1 mounting rail	54mm	200mm	4	39.20		32 454
2 mounting rails	54mm	200mm	4	41.00		32 455
1 mounting rail	63mm	200mm	4	44.90		32 456
1 mounting rail	72mm	200mm	4	47.60		32 457
2 mounting rails	81mm	200mm	4	51.30		32 459
2 mounting rails	54mm	260mm	4	43.00		32 461

EQUES®EasyConnector 80A

Busbar adaptor, with 16mm² (AWG 6) terminals, without conductors

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
1 mounting rail	54mm	200mm	4	37.30		32 466
2 mounting rails	54mm	200mm	4	38.90		32 467
1 mounting rail	72mm	200mm	4	45.00		32 469
2 mounting rails	54mm	260mm	4	43.80		32 472
Terminal cap, for applications subject to UL 508A			4	0.80		32 974

EQUES®EasyConnector, empty

Busbar adaptor, without electrical contact

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
2 mounting rails	45mm	200mm	4	24.80		32 477
2 mounting rails	54mm	200mm	4	27.70		32 478
2 mounting rails	45mm	260mm	4	27.90		32 484

EQUES®MotorController

EQUES®MotorController 25A

Busbar adaptor, with AWG 12 conductors ± 4mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
16A, 2 mounting rails, conductors 2.5mm², 125mm long	45mm	200mm	4	42.70		32 401
2 mounting rails	45mm	200mm	4	42.70		32 400
2 mounting rails	45mm	260mm	4	45.00		32 402

EQUES®MotorController 32A

Busbar adaptor, with AWG 10 conductors ± 6mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
2 mounting rails	54mm	200mm	4	49.20		32 404
2 mounting rails	54mm	260mm	4	54.40		32 408

EQUES®MotorController 45A

Busbar adaptor, with AWG 8 conductors ± 10mm²

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
2 mounting rails	54mm	200mm	4	52.90		32 412
2 mounting rails	54mm	260mm	4	56.70		32 416

EQUES®MotorController, empty

Busbar adaptor, without electrical contact

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
2 mounting rails	45mm	200mm	4	34.90		32 420
2 mounting rails	54mm	200mm	4	38.80		32 421
2 mounting rails	45mm	260mm	4	36.20		32 425
2 mounting rails	54mm	260mm	4	42.10		32 426

Microswitch

interrupts the coil current

Type	Pack size	Weight kg/%	Price €/unit	Part no.
1 N/C, 250V, 5A	10	0.90		32 956

All adaptors for busbars 12, 15, 20, 25, 30 mm x 5/10 mm, double-T and triple-T section

Accessories EQUES®Technology

Type	Adaptor Width	Pack size	Weight kg/%	Price €/unit	Part no.
Mounting rail	45mm	10	1.40		32 947
Mounting rail	54mm	10	1.50		32 948
Mounting rail	63mm	10	1.80		32 949
Mounting rail	72mm	10	2.00		32 950
Mounting rail	81mm	10	2.10		32 951
Connecting element		50	0.10		32 954
8-pole, 250 V plug-in connector with mount	45mm	10	3.40		32 511
10-pole, 250V plug-in connector with mount	54mm	10	7.20		32 513

EQUES®EasyConnector 16 A

Busbar adaptor, with AWG 14 conductors ÷ 2.5mm²

For switchgear with spring terminals	Mounting Rails	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
Direct starter Allen-Bradley 140M-RC2E, Moeller PKZM0, Siemens S00, Telemecanique G2	2	45mm	200mm	4	31.00		32 429
Changeover starter Allen-Bradley 140M-RC2E, Moeller PKZM0, Siemens S00, Telemecanique GV2	2	90mm	200mm	2	57.00		32 440

EQUES®EasyConnector 25A\*

Busbar adaptor, with AWG 12 conductors ÷ 4mm²

	Mounting Rails	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
Direct starter Allen-Bradley 140A, 140MC/D	2	45mm	200mm	4	32.50		32 533
Direct starter Allen-Bradley 140A, 140MC/D	2	54mm	200mm	4	38.00		32 534
Direct starter Moeller PKZM0/BG1	1	45mm	200mm	4	33.00		32 450
Changeover starter Moeller PKZM0/BG1	1	90mm	200mm	2	54.60		32 452
Direct starter Siemens S00/S0	1	45mm	200mm	4	32.50		32 445
Changeover starter Siemens S00/S0	1	90mm	200mm	2	54.10		32 448

\*These special solutions differ from the universal design EQUES®EasyConnector busbar adaptors in their specific mounting rail spacing or additional parts.

EQUES®EasyConnector 32A\*

Busbar adaptor, with AWG 10 conductors ÷ 6mm²

	Mounting Rails	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
Direct starter Moeller PKZM0/BG2	2	45mm	200mm	4	36.40		32 451
Changeover starter Moeller PKZM0/BG2	2	90mm	200mm	2	61.20		32 453
Direct starter Telemecanique GV2-M/P	2	45mm	200mm	4	33.30		32 434
Direct starter Telemecanique GV2-M/P	2	45mm	260mm	4	36.20		32 438
Direct starter Telemecanique LUB12/32	1	45mm	200mm	4	32.20		32 427
Changeover starter Telemecanique LU2B12/32	1	45mm	260mm	4	35.10		32 428

\*These special solutions differ from the universal design EQUES®EasyConnector busbar adaptors in their specific mounting rail spacing or additional parts.

EQUES®EasyConnector 63A\*

Busbar adaptor, with AWG 8 conductors ÷ 10mm²

	Mounting Rails	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
Direct starter ABB MS45x, Moeller PKZM4, Siemens S2	2	55mm	260mm	4	43.20		32 460
Direct starter Allen-Bradley 140M-F	2	54mm	200mm	4	43.00		32 535
Direct starter Moeller PKZ2	2	72mm	260mm	2	51.40		32 463

\*These special solutions differ from the universal design EQUES®EasyConnector busbar adaptors in their specific mounting rail spacing or additional parts.

Busbar adaptor

Type	Adaptor Width	Adaptor Length	Pack size	Weight kg/%	Price €/unit	Part no.
250A for Merlin Gerin NS100, NS250	106	192	1	93.80		32 156
250A for Moeller NZM2-XKR4	106	192	1	90.10		32 140
200A for Moeller NZM7	108	215	1	89.10		32 016
550A for Moeller NZM3-XKR13O	140	272	1	234.20		32 170
570A for Merlin Gerin NS400, NS630	140	272	1	222.60		32 157

QUADRON®J-Carrier

Bus-mounting fuse base for Class J

with cover, connection bottom or top

Type	Rated Current	Pack size	Weight kg/%	Price €/unit	Part no.
For fuses in compliance with UL 248-8	100A	1	328.00		33 309
	200A	1	450.00		33 310
	400A	1	690.00		33 311

For busbars 20 and 30 x 10mm, double-T and triple-T section.

# Mounting Components

## AMBUS®EasySwitch Class CC

Class CC fuse holder, shock-protected, DIN-rail mounted  
for fuses which comply with UL 248-4

### AMBUS®EasySwitch Class CC

holder for cylindrical Class CC fuses,  
standard model, 1.5-25mm² connection / AWG 16 to 4

Rated current/ Rated voltage	Type	Width	Pack size	Weight kg/%	Price €/unit	Part no.
30A / 600V AC	1-pole	18mm	12	26.60		31 295
	2-pole	36mm	6	13.10		31 296
	3-pole	54mm	4	19.90		31 297

### AMBUS®EasySwitch Class CC

holder for cylindrical Class CC fuses,  
with light indicator, 1.5-25mm² connection / AWG 16 to 4

Rated current/ Rated voltage	Type	Width	Pack size	Weight kg/%	Price €/unit	Part no.
30A / 110–600V AC	1-pole	18mm	12	26.70		31 298
	2-pole	36mm	6	13.30		31 299
	3-pole	54mm	4	20.20		31 300

## AMBUS®J-Carrier / QUADRON®J-Carrier

Class J fuse holder, shock-protected, for fuses which comply with UL 248-4

### AMBUS®J-Carrier

Class J fuse holder, DIN-rail mounted

Rated current/ Rated voltage	Type	Width	Connection	Pack size	Weight kg/%	Price €/unit	Part no.
30A / 600V AC	1-pole	36mm	2.5–50mm²	6	15.80		31 284
	2-pole	72mm	2.5–50mm²	3	32.20		31 285
	3-pole	108mm	2.5–50mm²	2	48.60		31 287
60 A/600 V AC	1-pole	40mm	6.0–50mm²	6	18.20		31 920
	2-pole	80mm	6.0–50mm²	3	37.00		31 921
	3-pole	120mm	6.0–50mm²	2	55.90		31 922

60A models and indicator models available after September 2005

## QUADRON®J-Carrier

Class J fuse holder, panel mounted

Rated current/ Rated voltage	Type	Width	Connection	Pack size	Weight kg/%	Price €/unit	Part no.
100A /600V AC	3-pole	184mm	AWG 10 to 2/0	1	217.60		33 306
200A /600V AC	3-pole	210mm	AWG 8 to 300 MCM	1	339.00		33 307
400A / 600V AC	3-pole	256mm	AWG 4 to 600 MCM	1	590.00		33 308

# Accessories

## Class CC fuse

Time Delay, complies with UL 248-4

Size mm	Rated Current	Rated Voltage	Rated Circuit Breaking Capacity	Pack size	Weight kg/%	Price €/unit	Part no.
Class CC	0.5A	600V AC	200kA	10	0.80		31 394
(10 x 38)	1.0A	600V AC	200kA	10	0.80		31 244
	1.5A	600V AC	200kA	10	0.80		31 395
	2.0A	600V AC	200kA	10	0.80		31 245
	2.5A	600V AC	200kA	10	0.80		31 396
	3.0A	600V AC	200kA	10	0.80		31 397
	4.0A	600V AC	200kA	10	0.80		31 246
	5.0A	600V AC	200kA	10	0.80		31 398
	6.0A	600V AC	200kA	10	0.80		31 247
	8.0A	600V AC	200kA	10	0.80		31 399
	10.0A	600V AC	200kA	10	0.80		31 248
	12.0A	600V AC	200kA	10	0.80		31 400
	15.0A	600V AC	200kA	10	0.80		31 249
	20.0A	600V AC	200kA	10	0.80		31 250
	25.0A	600V AC	200kA	10	0.80		31 251
	30.0A	600V AC	200kA	10	0.80		31 252

## Class CC fuse

Fast Acting, complies with UL 248-4

Size mm	Rated Current	Rated Voltage	Rated Circuit Breaking Capacity	Pack size	Weight kg/%	Price €/unit	Part no.
Class CC	0.5A	600V AC	200kA	10	0.80		31 401
(10 x 38)	1.0A	600V AC	200kA	10	0.80		31 235
	1.5A	600V AC	200kA	10	0.80		31 402
	2.0A	600V AC	200kA	10	0.80		31 236
	2.5A	600V AC	200kA	10	0.80		31 403
	3.0A	600V AC	200kA	10	0.80		31 404
	4.0A	600V AC	200kA	10	0.80		31 237
	5.0A	600V AC	200kA	10	0.80		31 405
	6.0A	600V AC	200kA	10	0.80		31 238
	8.0A	600V AC	200kA	10	0.80		31 406
	10.0A	600V AC	200kA	10	0.80		31 239
	12.0A	600V AC	200kA	10	0.80		31 407
	15.0A	600V AC	200kA	10	0.80		31 240
	20.0A	600V AC	200kA	10	0.80		31 241
	25.0A	600V AC	200kA	10	0.80		31 242
	30.0A	600V AC	200kA	10	0.80		31 243

Class J fuse

Time Delay, complies with UL 248-8

Size mm	Rated Current	Rated Voltage	Rated Circuit Breaking Capacity	Pack size	Weight kg/%	Price €/unit	Part no.
Class J (21 x 57)	1A	600V AC	200kA	10	4.40		31 333
	2A	600V AC	200kA	10	4.40		31 338
	3A	600V AC	200kA	10	4.40		31 342
	4A	600V AC	200kA	10	4.40		31 345
	5A	600V AC	200kA	10	4.40		31 347
	6A	600V AC	200kA	10	4.40		31 349
	8A	600V AC	200kA	10	4.40		31 351
	9A	600V AC	200kA	10	4.40		31 352
	10A	600V AC	200kA	10	4.40		31 353
	12A	600V AC	200kA	10	4.40		31 354
Class J (27 x 60)	15A	600V AC	200kA	10	4.40		31 355
	20A	600V AC	200kA	10	4.40		31 357
	25A	600V AC	200kA	10	4.40		31 358
	30A	600V AC	200kA	10	4.40		31 359
	35A	600V AC	200kA	10	7.60		31 360
	40A	600V AC	200kA	10	7.60		31 361
	45A	600V AC	200kA	10	7.60		31 362
	50A	600V AC	200kA	10	7.60		31 363
	60A	600V AC	200kA	10	7.60		31 364
	70A	600V AC	200kA	5	15.40		03 228
Class J (29 x 117)	80A	600V AC	200kA	5	15.40		03 229
	90A	600V AC	200kA	5	15.40		03 230
	100A	600V AC	200kA	5	15.40		03 231
	110A	600V AC	200kA	1	38.20		03 232
Class J (41 x 146)	125A	600V AC	200kA	1	38.20		03 233
	150A	600V AC	200kA	1	38.20		03 234
	175A	600V AC	200kA	1	38.20		03 235
	200A	600V AC	200kA	1	38.20		03 236
Class J (54 x 181)	225A	600V AC	200kA	1	76.00		03 237
	250A	600V AC	200kA	1	76.00		03 238
	300A	600V AC	200kA	1	76.00		03 239
	350A	600V AC	200kA	1	76.00		03 240
	400A	600V AC	200kA	1	76.00		03 241

Class J fuse

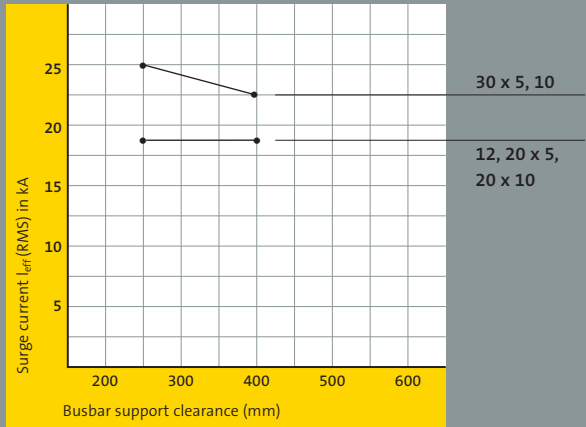
Fast Acting, complies with UL 248-8

Size mm	Rated Current	Rated Voltage	Rated Circuit Breaking Capacity	Pack size	Weight kg/%	Price €/unit	Part no.
Class J (21 x 57)	1A	600V AC	200kA	10	4.40		31 320
	2A	600V AC	200kA	10	4.40		31 328
	3A	600V AC	200kA	10	4.40		31 321
	4A	600V AC	200kA	10	4.40		31 329
	5A	600V AC	200kA	10	4.40		31 330
	6A	600V AC	200kA	10	4.40		31 322
	8A	600V AC	200kA	10	4.40		31 331
	10A	600V AC	200kA	10	4.40		31 323
	12A	600V AC	200kA	10	4.40		31 332
	15A	600V AC	200kA	10	4.40		31 324
Class J (27 x 60)	20A	600V AC	200kA	10	4.40		31 325
	25A	600V AC	200kA	10	4.40		31 326
	30A	600V AC	200kA	10	4.40		31 327
	35A	600V AC	200kA	10	7.60		31 511
	40A	600V AC	200kA	10	7.60		31 512
	45A	600V AC	200kA	10	7.60		31 513
	50A	600V AC	200kA	10	7.60		31 514
	60A	600V AC	200kA	10	7.60		31 515
	70A	600V AC	200kA	5	15.40		03 214
	80A	600V AC	200kA	5	15.40		03 215
Class J (29 x 117)	90A	600V AC	200kA	5	15.40		03 216
	100A	600V AC	200kA	5	15.40		03 217
	110A	600V AC	200kA	1	38.20		03 218
	125A	600V AC	200kA	1	38.20		03 219
Class J (41 x 146)	150A	600V AC	200kA	1	38.20		03 220
	175A	600V AC	200kA	1	38.20		03 221
	200A	600V AC	200kA	1	38.20		03 222
	225A	600V AC	200kA	1	76.00		03 223
Class J (54 x 181)	250A	600V AC	200kA	1	76.00		03 224
	300A	600V AC	200kA	1	76.00		03 225
	350A	600V AC	200kA	1	76.00		03 226
	400A	600V AC	200kA	1	76.00		03 227

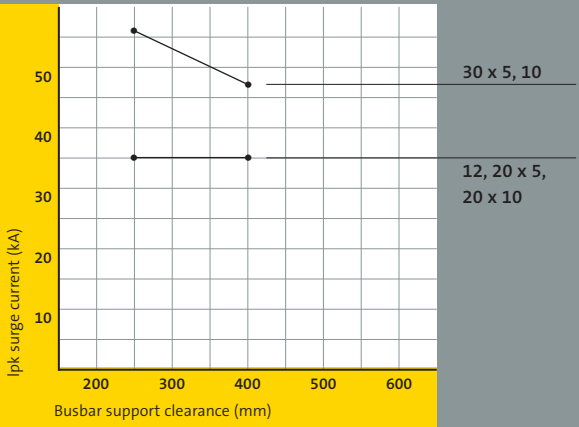
# Short circuit strength diagrams for the UL-compliant 60mm busbar system

(•) Measured values from type tests

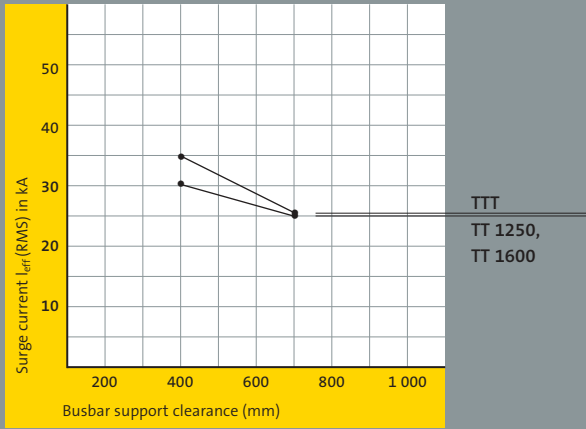
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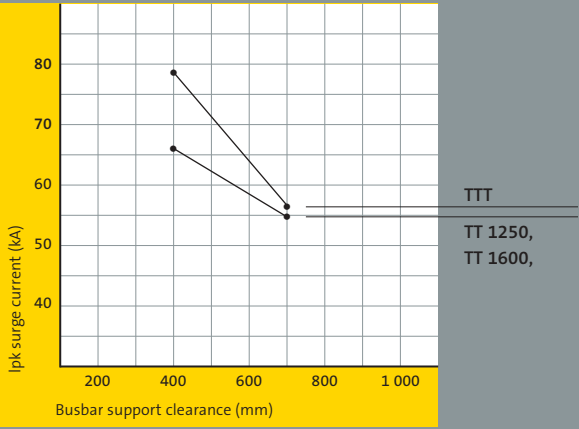
Busbar support 01 508



Busbar support 01 231 / 01 232



Busbar support 01 231/01 232



Wöhner UL file: E 123 577 for busbar components,  
E 230 163 for panel- or DIN-mounted fuse bases

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Ø 1 inch/25.4mm



Ø 1 inch/25.4mm



Ø 1 inch/25.4mm



Ø 1 inch/25.4mm



Ø 2 inches/50.8mm



Ø 2 inches/50.8mm



Ø 2 inches/50.8mm



Ø 3 inches/76.2mm



Ø 3 inches/76.2mm

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