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# General purpose fuses

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## Overcurrent protection

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Overcurrent protection is critical to personal safety and protection of your system.

All electrical systems eventually experience overcurrent's. Unless removed in time, even moderate overcurrent's quickly overheat system components, damaging insulation, conductors, and equipment. Large overcurrent's may melt conductors and vaporize insulation. Very high currents produce magnetic forces that bend and twist bus bars. These high currents can pull cables from their terminals and crack insulators and spacers.

Protection against overload and short-circuit:

An overload is an overcurrent confined to normal current paths in which there is no insulation breakdown. A short-circuit is an overcurrent flowing outside of its normal path. Types of short-circuits are generally divided into three categories: bolted faults, arcing faults, and ground faults.



As an independent supplier, Vandapower can supply a large number of fuses from several brands to protect your system. If you can't find the fuse you need in this folder, just send us a request with the necessary information so that we can help you find the correct fuse.



The most important selection criteria to choose the correct fuse for your application:



- Current Rating
- Voltage Rating
- Interrupting Rating
- Type of Protection and Fuse Characteristics
- Current Limitation
- Physical Size
- Indication



For the ordering codes, please contact us, providing us the above information or the original supplier code.

## Forklift fuses



CNN/CNL Mersen			
			
Type	Voltage Rating	Current Rating	Standard
CNN	130 VAC	10 – 800 A	UL File E60314
CNN	75 VAC	10 – 300 A	UL File E60314
CNN	48 VDC	301 – 800 A	UL File E60314
CNL	80 VAC / 80VDC	35 – 500 A	UL File E60314



DIN CNN/CNL Mersen			
			
Type	Voltage Rating	Current Rating	Standard
CNN_DIN	130 VAC / 80 VDC	10 – 800 A	DIN43560 / UL
CNL_DIN	80 VAC / 80 VDC	35 – 750 A	DIN43560 / UL

ACK/ACL/ALS Mersen			
			
Type	Voltage Rating	Current Rating	Standard
ACK	125 VAC / 125 VDC	1 – 400 A	UL File E60314
ACL	125 VAC / 125 VDC	30 – 120 A	UL File E60314
ALS	125 VAC / 125 VDC	100 – 500 A	UL File E60314



CNN/CNL Littelfuse			
			
Type	Voltage Rating	Current Rating	Standard
CNN	125 VAC / 48 VDC	10 – 800 A	UL File 71611
CNN_E	125 VAC / 80 VDC	35 – 800 A	UL File 71611
CNL	32 VAC / 32 VDC	35 – 500 A	UL File 71611



## Fuse Strips



Fuse Strips Littelfuse			
			
Type	Voltage Rating	Current Rating	Standard
156.5610	36 VDC	25 – 250 A	DIN72581/2

V-Fuses SIBA			
			
Type	Voltage Rating	Current Rating	Standard
A – Open type	80 VDC	20 – 500 A	DIN43560
B – Enclosed type	80 VDC	20 – 500 A	DIN43560
Open type	24 VDC	25 – 150 A	DIN72581/2
Enclosed type	24 VDC	25 – 150 A	DIN72581/2



## Cylindrical miniature fuses

ATM Mersen			
			
Type	Voltage Rating	Current Rating	Standard
Size 10x38	600 VAC / 600 VDC	0,1 – 30 A	UL 248-14/ C22.2

FR Mersen			
			
Type	Voltage Rating	Current Rating	Standard
Size 10x38	400 to 690 VAC	0,5 – 32 A	IEC 60269-1 & -2
Size 14x51	500 to 690 VAC	1 – 50 A	IEC 60269-1 & -2
Size 22x58	500 to 690 VAC	2 – 125 A	IEC 60269-1 & -2



POWR-GARD Littelfuse			
			
Type	Voltage Rating	Current Rating	Standard
Size 10x38	500 VAC	0,5 – 32 A	IEC 60269
Size 14x51	500 VAC	2 – 50 A	IEC 269-2-1
Size 22x58	500 VAC	16 – 100 A	IEC 269-2-1



## British style fuses

BS88 Mersen			
			
Type	Voltage Rating	Current Rating	Standard
A-type	415 VAC / 240 VDC	36 – 200 A	BS88 / IEC 60269
F-type	415-550 VAC / 250 VDC	2 – 63 A	BS88 / IEC 60269
B & C-type	415 VAC / 240 VDC	32 – 800 A	BS88 / IEC 60269



\*available as Offset Blade fuse-links, Offset Tag fuse-links or Central Bolted fuse-links

\* available in curve type gC and gM

Protistor BS88-4 Mersen			
			
Type	Voltage Rating	Current Rating	Standard
URE	250 VAC	5 – 32 A	BS88-4 / IEC 60269
URGS	250 VAC	7 – 80 A	BS88-4 / IEC 60269 / UL248-1
URZ	250 VAC	100 – 180 A	BS88-4 / IEC 60269

URE-Fuses SIBA			
			
Type	Voltage Rating	Current Rating	Standard
SLCT	240 VAC / 150 VDC	5 – 20 A	BS88-4 / IEC 60269-4
SLET	240 VAC / 150 VDC	25 – 180 A	BS88-4 / IEC 60269-4
SLMT	240 VAC / 150 VDC	160 – 450 A	BS88-4 / IEC 60269-4
2x SLMT	240 VAC / 150 VDC	300 – 900 A	BS88-4 / IEC 60269-4
SCT	690 VAC / 450 VDC	6 – 20 A	BS88-4 / IEC 60269-4
SFE	690 VAC	25 – 100 A	BS88-4 / IEC 60269-4
SMT	690 VAC / 450 VDC	100 – 355 A	BS88-4 / IEC 60269-4
2x SMT	690 VAC / 450 VDC	315 – 710 A	BS88-4 / IEC 60269-4

## Knife fuses

IEC NH Mersen			
			
Type	Voltage Rating	Current Rating	Standard
Size 000 gG	400 VAC	2 – 100 A	IEC 60269-1 and -2 / VDE 0636-201
Size 00 gG	400 VAC	125 – 160 A	IEC 60269-1 and -2 / VDE 0636-201
Size 1 gG	400 VAC	35 – 250 A	IEC 60269-1 and -2 / VDE 0636-201
Size 2 gG	400 VAC	35 – 400 A	IEC 60269-1 and -2 / VDE 0636-201
Size 3 gG	400 VAC	250 – 630 A	IEC 60269-1 and -2 / VDE 0636-201
Size 000 gG	500 VAC / 250 VDC	2 – 100 A	IEC 60269-1 and -2 / VDE 0636-201
Size 00 gG	500 VAC / 250 VDC	125 – 160 A	IEC 60269-1 and -2 / VDE 0636-201
Size 0 gG	500 VAC / 250 VDC	6 – 250 A	IEC 60269-1 and -2 / VDE 0636-201
Size 1 gG	500 VAC / 250 VDC	16 – 355 A	IEC 60269-1 and -2 / VDE 0636-201
Size 2 gG	500 VAC / 250 VDC	25 – 500 A	IEC 60269-1 and -2 / VDE 0636-201
Size 3 gG	500 VAC / 250 VDC	224 – 800 A	IEC 60269-1 and -2 / VDE 0636-201
Size 000 gG	690 VAC / 250 VDC	2 – 80 A	IEC 60269-1 and -2 / VDE 0636-201
Size 00 gG	690 VAC / 250 VDC	32 – 125 A	IEC 60269-1 and -2 / VDE 0636-201
Size 0 gG	690 VAC / 250 VDC	6 – 160 A	IEC 60269-1 and -2 / VDE 0636-201
Size 1 gG	690 VAC / 250 VDC	16 – 250 A	IEC 60269-1 and -2 / VDE 0636-201
Size 2 gG	690 VAC / 250 VDC	32 – 355 A	IEC 60269-1 and -2 / VDE 0636-201
Size 3 gG	690 VAC / 250 VDC	250 – 500 A	IEC 60269-1 and -2 / VDE 0636-201

\*also available with isolated gripping-lugs

\*other versions (aM and gTr) on request



### URM NH Siba



Type	Voltage Rating	Current Rating	Standard
Size 000 gG	400 VAC	2 – 100 A	IEC 60269-1 and -2 / VDE 0636-201
Size 00 gG	400 VAC	125 – 160 A	IEC 60269-1 and -2 / VDE 0636-201
Size 1 gG	400 VAC	35 – 250 A	IEC 60269-1 and -2 / VDE 0636-201
Size 2 gG	400 VAC	35 – 400 A	IEC 60269-1 and -2 / VDE 0636-201
Size 3 gG	400 VAC	250 – 630 A	IEC 60269-1 and -2 / VDE 0636-201
NH 000/00 gR/aR	500 VAC	6 – 200 A	IEC 60269-4 / VDE 0636-4
NH 0 gR/aR	500 VAC	16 – 160 A	IEC 60269-4 / VDE 0636-4
NH 1 gR/aR	500 VAC	63 – 315 A	IEC 60269-4 / VDE 0636-4
NH 2 gR/aR	500 VAC	32 – 630 A	IEC 60269-4 / VDE 0636-4
NH 3 aR	500 VAC	160 – 700 A	IEC 60269-4 / VDE 0636-4
NH 3 DIN110 gR	660 VAC	150 – 500 A	IEC 60269-4 / VDE 0636-4
NH 000/00 gR/aR	690 VAC	10 – 160 A	IEC 60269-4 / VDE 0636-4
NH 000/00 gRL (gS)	690 VAC	16 – 200 A	IEC 60269-4 / VDE 0636-4 / UL248-13
NH 1 gR/aR	690 VAC	40 – 315 A	IEC 60269-4 / VDE 0636-4
NH 1 gRL (gS)	690 VAC	63 – 315 A	IEC 60269-4 / VDE 0636-4 / UL248-13
NH 2 aR	690 VAC	160 – 450 A	IEC 60269-4 / VDE 0636-4
NH 2 gRL (gS)	690 VAC	160 – 500 A	IEC 60269-4 / VDE 0636-4 / UL248-13
NH 3 aR	690 VAC	315 – 800 A	IEC 60269-4 / VDE 0636-4
NH 3 gRL (gS)	690 VAC	315 – 800 A	IEC 60269-4 / VDE 0636-4 / UL248-13
NH 0 gR/aR	1000 VAC	16 – 160 A	IEC 60269-4 / VDE 0636-4
NH 3 DIN130	1000 VAC	100 – 500 A	IEC 60269-4 / VDE 0636-4
NH 3 aR	2000 VAC	200 – 710 A	IEC 60269-4 / VDE 0636-4
NH 1 gR	750 VDC	32 – 200 A	
NH 1 gPV	1000 VDC	50 – 160 A	IEC 60269-6 / UL2579
NH 3L gPV/gR	1000 VDC	125 – 400 A	IEC 60269-4 / VDE 0636-4
NH 1XL gPV/gR	1100 VDC	50 – 250 A	IEC 60269-6 / UL4248-13
NH 1XL gPV	1100 VDC	50 – 200 A	IEC 60269-6 / UL2579
NH 3L gPV	1100 VDC	200 – 400 A	IEC 60269-6 / UL2579



## Form 101 fuses

A15QS Amp Trap Mersen			
			
Type	Voltage Rating	Current Rating	Standard
A15QS*	150 VAC / 150 VDC	1 – 6000 A	UL File E60314

\* Optional Trigger Indicator (TI) and/or (IL) indicator.

\* A15QS Amp-Trap® Form 101 high speed fuses were designed for the specific protection of diodes and other semiconductor devices rated 150VAC/DC