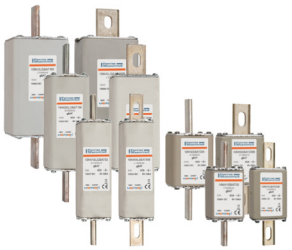
NH fuse-links gBat 1000V-1500V DC

SPECIAL PURPOSE FUSES

GBAT FUSES FOR BATTERY ENERGY SYSTEMS



Mersen NH gBat fuse series was engineered specifically for protection of battery systems. They offer full range protection and can protect very small over currents as well as DC fault current up to 150kA at max L/R 3ms. The NH gBat fuses serie covers various ratings in 1000VDC with NH1 and NH2 sizes, and in 1500VDC with NH1XL, NH2XL and NH3L. They are of the gBat type that comply with new IEC 60269-7 standard for Battery protection. They are available with bolted type blades for direct mounting, or with plain blades.

TECHNICAL DATA OVERVIEW

Voltage Range DC	1000 ... 1500 VDC
Ampere Range (A)	50 ... 500 A
Speed/Characteristic	gBat
Product Size	NH1, NH2, NH1XL, NH2XL, NH3L
Operating temperature	-40°C - +70°C
I.R. DC L/R up to 3ms	1000Vdc – Size NH1&NH2 100kA 1500Vdc – Size NH1XL 50kA 1500Vdc – Size NH2XL 100kA 1500Vdc – Size NH3L up to 400A 150kA 1500Vdc – Size NH3L 450A &500A 200kA

FEATURES & BENEFITS

- Design for DC applications
- Full range breaking capacity
- Low watt losses
- Minimum breaking capacity 2IN
- High cycling performance
- High interrupting rating 150kA

APPLICATIONS

- Electrical energy storage
- Battery storage system
- Line protection between battery system and DC/DC converter or battery inverter
- DC grid protection

STANDARDS

- IEC 60269-7
- UL 248-13
- RoHS compliance

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

NH fuse-links gBat 1000V-1500V DC

PRODUCT RANGE

10NH1GBAT50

10NH2GBAT200

NH fuse links gBat 1000VDC Plain Blade

Catalog number	Item number	Size	Rated current I_n	Pre-arcing I^2t (a)	Power dissi-pation at I_n	Power dissi-pation at 0.7xI_n	Total Clearing I^2t @ Un (L/R=2ms)	Package	Weight
10NH1GBAT50	T1068620	1	50 A	0.65 kA²s	11 W	4.6 W	2.4 kA²s	3	0.3 kg
10NH1GBAT63	V1068621	1	63 A	1.46 kA²s	13 W	5.4 W	5.35 kA²s	3	0.3 kg
10NH1GBAT80	W1068622	1	80 A	2.6 kA²s	15 W	6.1 W	9.5 kA²s	3	0.3 kg
10NH1GBAT100	X1068623	1	100 A	4.6 kA²s	17 W	7.2 W	13.25 kA²s	3	0.3 kg
10NH1GBAT125	Y1068624	1	125 A	10.37 kA²s	18 W	7.4 W	29.75 kA²s	3	0.3 kg
10NH1GBAT160	Z1068625	1	160 A	20 kA²s	23 W	9.6 W	57.4 kA²s	3	0.3 kg
10NH2GBAT200	A1068626	2	200 A	36.45 kA²s	27 W	11.3 W	130.4 kA²s	3	0.6 kg
10NH2GBAT250	B1068627	2	250 A	64.8 kA²s	31 W	12.9 W	231.7 kA²s	3	0.6 kg

(a) This represents the minimum I^2t

10NH1GBAT50B

10NH2GBAT200B

NH fuse links gBat 1000VDC Direct Mounting

Catalog number	Item number	Size	Rated current I_n	Pre-arcing I^2t (a)	Power dissi-pation at I_n	Power dissi-pation at 0.7xI_n	Total Clearing I^2t @ Un (L/R=2ms)	Package	Weight
10NH1GBAT50B	K1068612	1	50 A	0.65 kA²s	11 W	4.6 W	2.4 kA²s	3	0.4 kg
10NH1GBAT80B	M1068614	1	80 A	2.6 kA²s	15 W	6.1 W	9.5 kA²s	3	0.4 kg
10NH1GBAT63B	L1068613	1	63 A	1.46 kA²s	13 W	5.4 W	5.35 kA²s	3	0.4 kg
10NH1GBAT100B	N1068615	1	100 A	4.6 kA²s	17 W	7.2 W	13.25 kA²s	3	0.4 kg
10NH1GBAT125B	P1068616	1	125 A	10.37 kA²s	18 W	7.4 W	29.75 kA²s	3	0.4 kg
10NH1GBAT160B	Q1068617	1	160 A	20 kA²s	23 W	9.6 W	57.4 kA²s	3	0.4 kg
10NH2GBAT200B	R1068618	2	200 A	36.45 kA²s	27 W	11.3 W	130.4 kA²s	3	0.63 kg
10NH2GBAT250B	S1068619	2	250 A	64.8 kA²s	31 W	12.9 W	231.7 kA²s	3	0.63 kg

(a) This represents the minimum I^2t

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

PRODUCT RANGE

15NH1XLGBAT50

15NH2XLGBAT200

15NH3LGBAT160

NH-fuse-links gBat 1500VDC plain blade

Catalog number	Item number	Size	Rated current I_n	Pre-arcing I^2t (a)	Power dissipation at I_n	Power dissipation at 0.7xI_n	Total Clearing I^2t @ Un (L/R=2ms)	Package	Weight
15NH1XLGBAT50	C1068628	1XL	50 A	0.97 kA²s	21 W	8.6 W	3.05 kA²s	1	0.7 kg
15NH1XLGBAT63	D1068629	1XL	63 A	2.05 kA²s	25 W	10.2 W	6.75 kA²s	1	0.7 kg
15NH1XLGBAT80	E1068630	1XL	80 A	4.6 kA²s	25.5 W	10.3 W	15 kA²s	1	0.7 kg
15NH1XLGBAT100	G1068632	1XL	100 A	10.37 kA²s	26 W	10.5 W	32.35 kA²s	1	0.7 kg
15NH1XLGBAT125	H1068633	1XL	125 A	18.43 kA²s	30 W	12.2 W	61.15 kA²s	1	0.7 kg
15NH2XLGBAT160	Q1068640	2XL	160 A	28.8 kA²s	38 W	15.4 W	84.6 kA²s	1	1.05 kg
15NH2XLGBAT125	P1068639	2XL	125 A	14.11 kA²s	33.7 W	13.6 W	38.2 kA²s	1	1.05 kg
15NH2XLGBAT200	S1068642	2XL	200 A	54.45 kA²s	48 W	19.4 W	129.2 kA²s	1	1.05 kg
15NH2XLGBAT250	T1068643	2XL	250 A	115.2 kA²s	51.7 W	20.9 W	222.2 kA²s	1	1.05 kg
15NH3LGBAT160	Z1068648	3L	160 A	28.8 kA²s	36 W	15 W	72 kA²s	1	1.69 kg
15NH3LGBAT200	A1068649	3L	200 A	56.45 kA²s	44 W	18 W	141.1 kA²s	1	1.69 kg
15NH3LGBAT250	B1068650	3L	250 A	101.25 kA²s	50 W	20 W	253.1 kA²s	1	1.69 kg
15NH3LGBAT315	C1068651	3L	315 A	240.8 kA²s	57 W	23 W	512 kA²s	1	1.69 kg
15NH3LGBAT350	D1068652	3L	350 A	259.2 kA²s	63 W	25 W	648 kA²s	1	1.69 kg
15NH3LGBAT400	E1068653	3L	400 A	361.25 kA²s	71 W	28 W	903.1 kA²s	1	1.69 kg
15NH3LGBAT450	Y1204048	3L	450 A	609 kA²s	68.7 W	27.8 W	1904 kA²s	1	1.98 kg
15NH3LGBAT500	Z1204049	3L	500 A	778 kA²s	74.5 W	30.2 W	2433 kA²s	1	1.98 kg

(a) This represents the minimum I^2t

* For higher current ratings, please contact Mersen, as parallel fuse configurations may be possible.

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

PRODUCT RANGE

15NH1XLGBAT50B

15NH2XLGBAT125B

15NH3LGBAT160B

15NH3LGBAT500B

NH-fuse-links gBat 1500VDC direct mounting

Catalog number	Item number	Size	Rated current I_n	Pre-arcing I^2t (a)	Power dissipation at I_n	Power dissipation at 0.7xI_n	Total Clearing I^2t @ Un (L/R=2ms)	Package	Weight
15NH1XLGBAT50B	J1068634	1XL	50 A	0.97 kA²s	21 W	8.6 W	3.05 kA²s	1	0.69 kg
15NH1XLGBAT63B	K1068635	1XL	63 A	2.05 kA²s	25 W	10.2 W	6.75 kA²s	1	0.69 kg
15NH1XLGBAT80B	L1068636	1XL	80 A	4.6 kA²s	25.5 W	10.3 W	15 kA²s	1	0.69 kg
15NH1XLGBAT100B	M1068637	1XL	100 A	10.37 kA²s	26 W	10.5 W	32.35 kA²s	1	0.69 kg
15NH1XLGBAT125B	N1068638	1XL	125 A	18.43 kA²s	30 W	12.2 W	61.15 kA²s	1	0.69 kg
15NH2XLGBAT125B	V1068644	2XL	125 A	14.11 kA²s	33.7 W	13.6 W	38.2 kA²s	1	1.02 kg
15NH2XLGBAT160B	W1068645	2XL	160 A	28.8 kA²s	38 W	15.4 W	84.6 kA²s	1	1.02 kg
15NH2XLGBAT200B	X1068646	2XL	200 A	54.45 kA²s	48 W	19.4 W	129.2 kA²s	1	1.02 kg
15NH2XLGBAT250B	Y1068647	2XL	250 A	115.2 kA²s	51.7 W	20.9 W	222.2 kA²s	1	1.02 kg
15NH3LGBAT160B	F1068654	3L	160 A	28.8 kA²s	36 W	15 W	72 kA²s	1	1.66 kg
15NH3LGBAT200B	G1068655	3L	200 A	56.45 kA²s	44 W	18 W	141.1 kA²s	1	1.66 kg
15NH3LGBAT250B	H1068656	3L	250 A	101.25 kA²s	50 W	20 W	253.1 kA²s	1	1.66 kg
15NH3LGBAT315B	J1068657	3L	315 A	240.8 kA²s	57 W	23 W	512 kA²s	1	1.66 kg
15NH3LGBAT350B	K1068658	3L	350 A	259.2 kA²s	63 W	25 W	648 kA²s	1	1.66 kg
15NH3LGBAT400B	L1068659	3L	400 A	361.25 kA²s	71 W	28 W	903.1 kA²s	1	1.66 kg
15NH3LGBAT450B	A1204050	3L	450 A	609 kA²s	68.7 W	27.8 W	1904 kA²s	1	1.98 kg
15NH3LGBAT500B	B1204051	3L	500 A	778 kA²s	74.5 W	30.2 W	2433 kA²s	1	1.98 kg

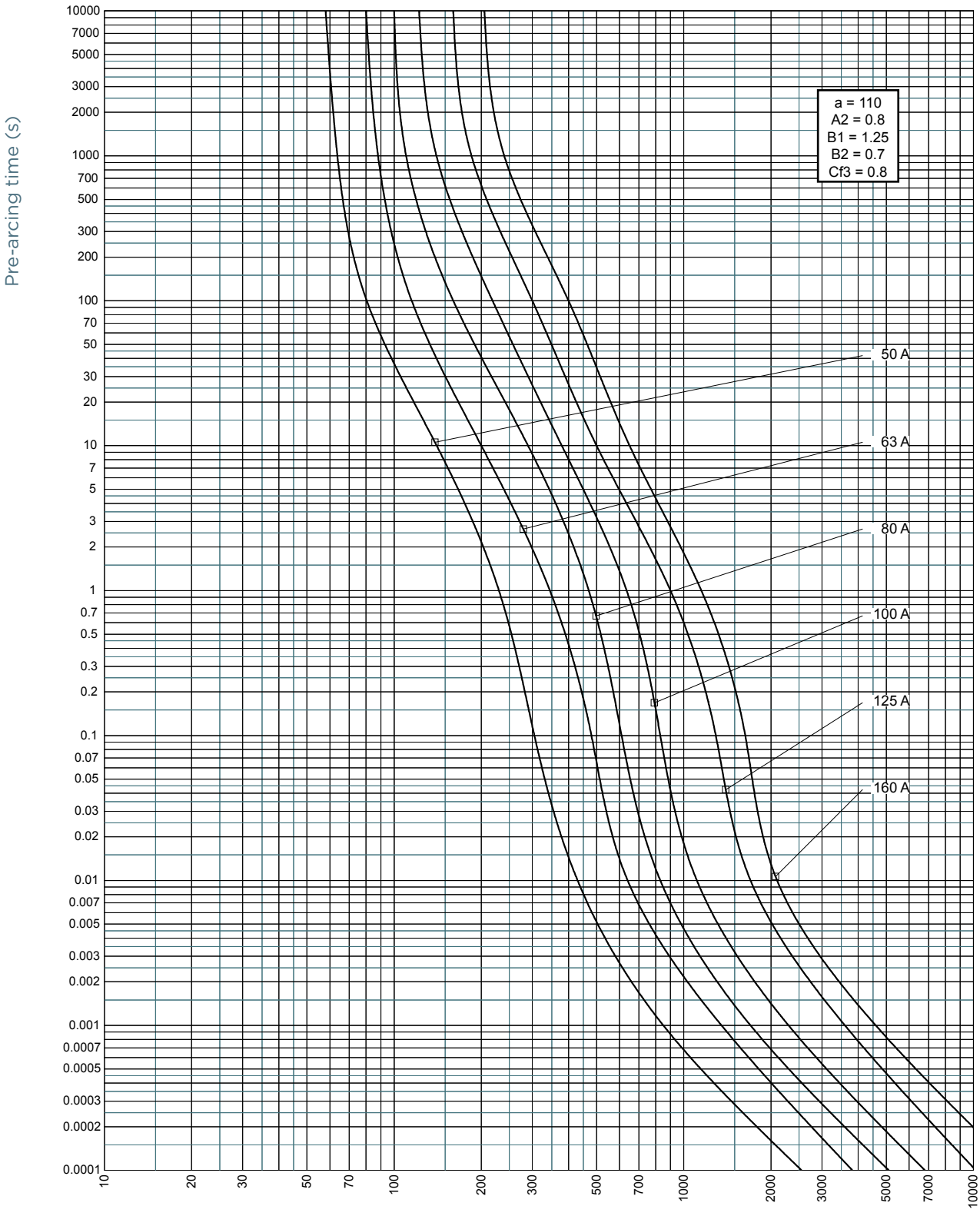
(a) This represents the minimum I^2t

* For higher current ratings, please contact Mersen, as parallel fuse configurations may be possible.

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

TIME CURRENT CHARACTERISTIC CURVES

Special purpose gBat fuse link size NH1 1000V 50-160A



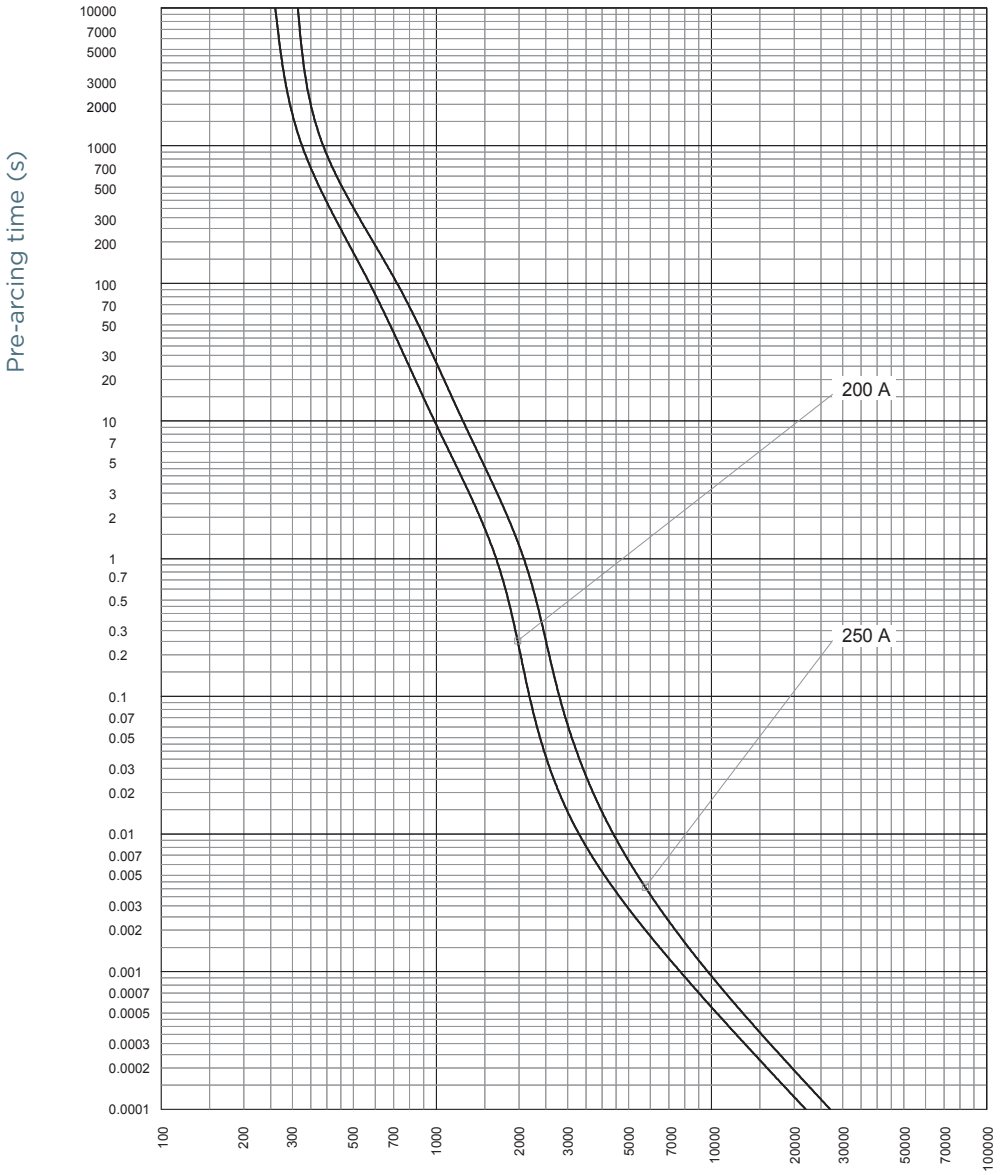
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

MERSEN Expertise, our source of energy

TIME CURRENT CHARACTERISTIC CURVES

Special purpose gBat fuse link size NH2 1000V 200-250A



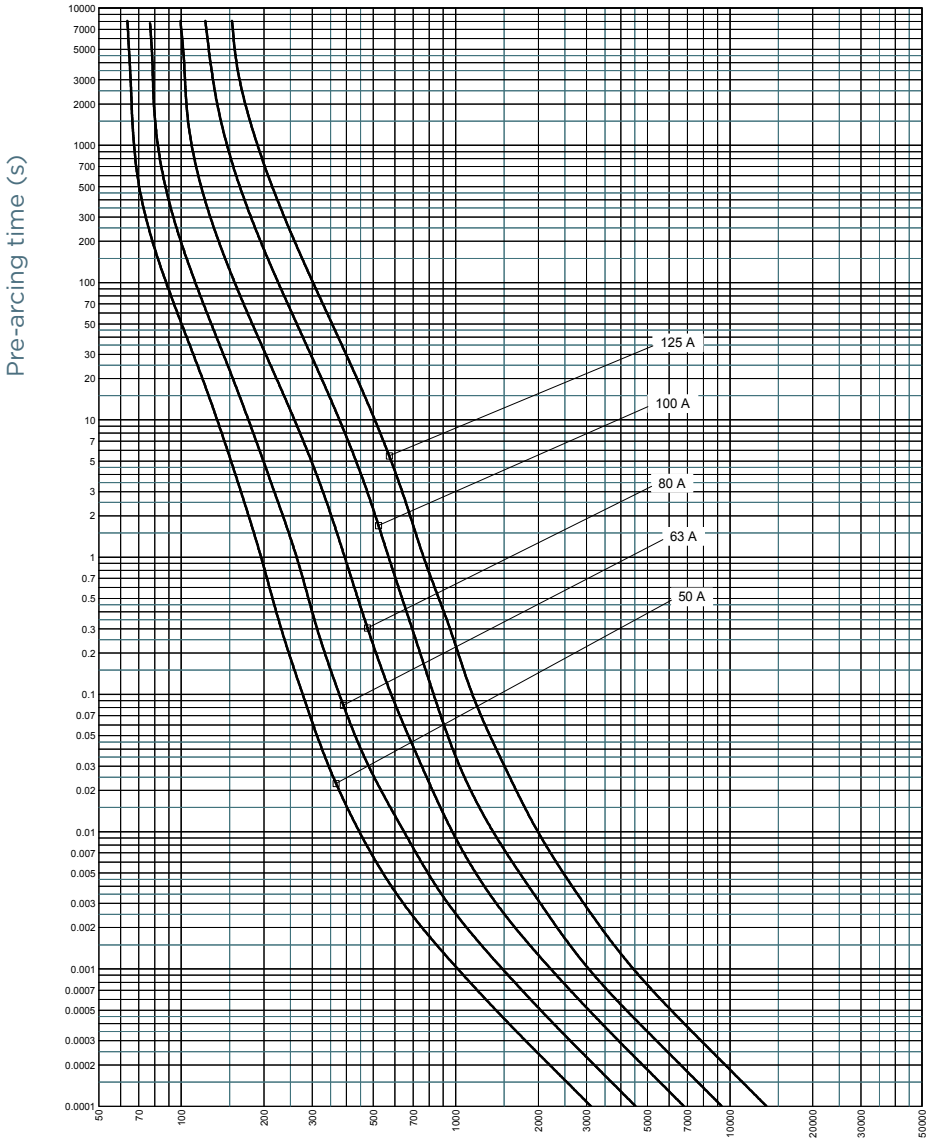
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

Expertise, our source of energy

TIME CURRENT CHARACTERISTIC CURVES

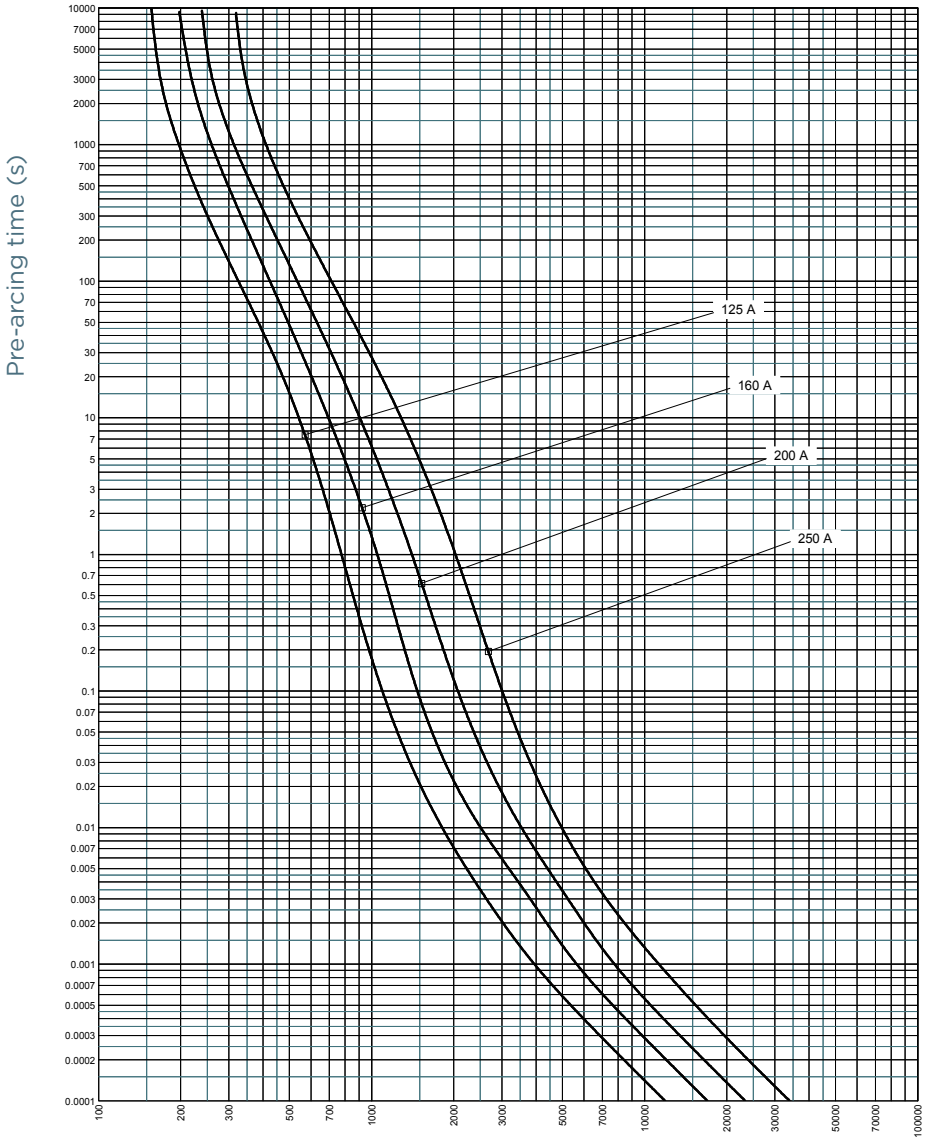
Special purpose gBat fuse link size 1XL 1500V 50-125A



©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

TIME CURRENT CHARACTERISTIC CURVES

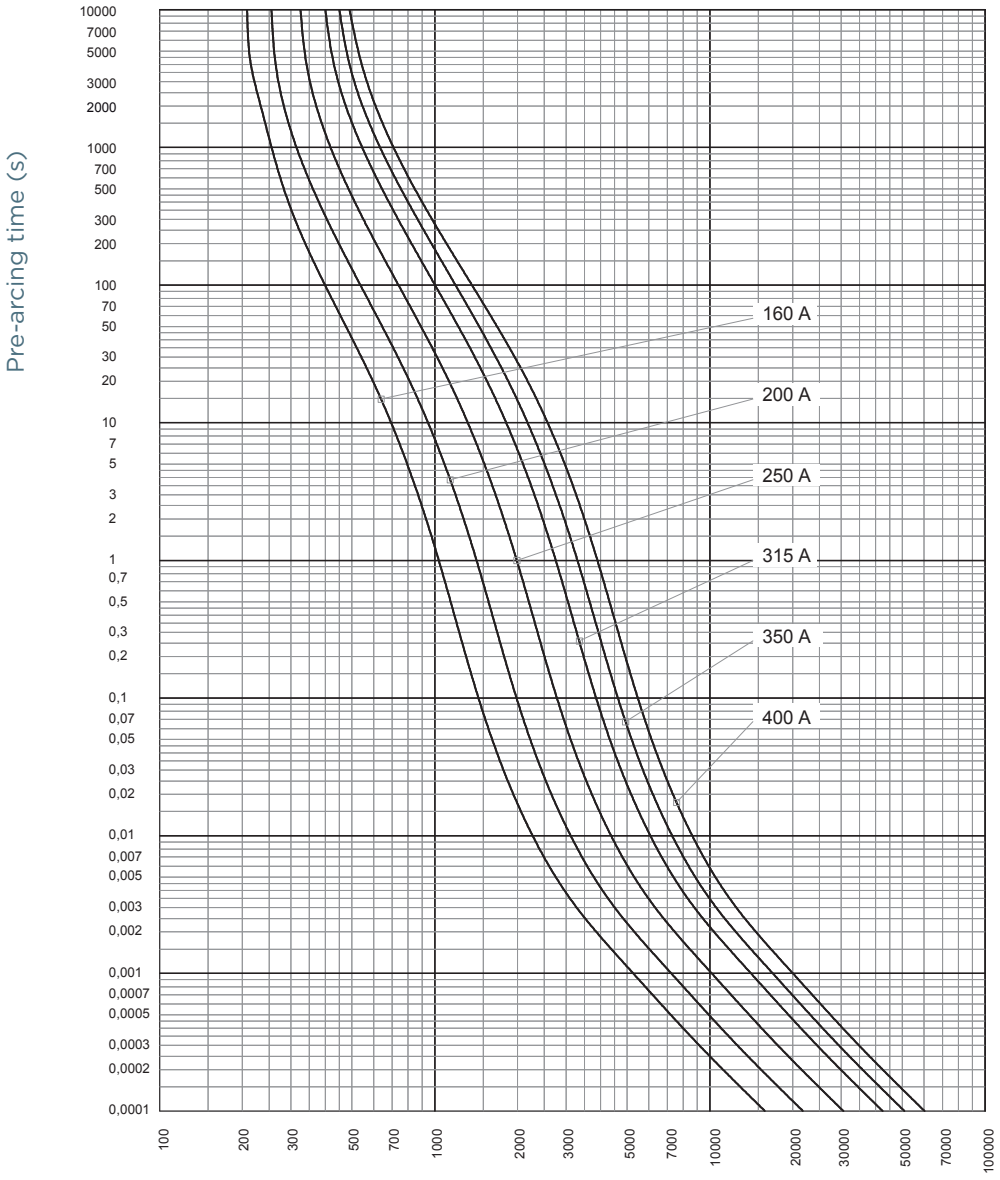
Special purpose gBat fuse link size 2XL 1500V 125-250A



©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

TIME CURRENT CHARACTERISTIC CURVES

Special purpose gBat fuse link size 3L 1500V 160-400A



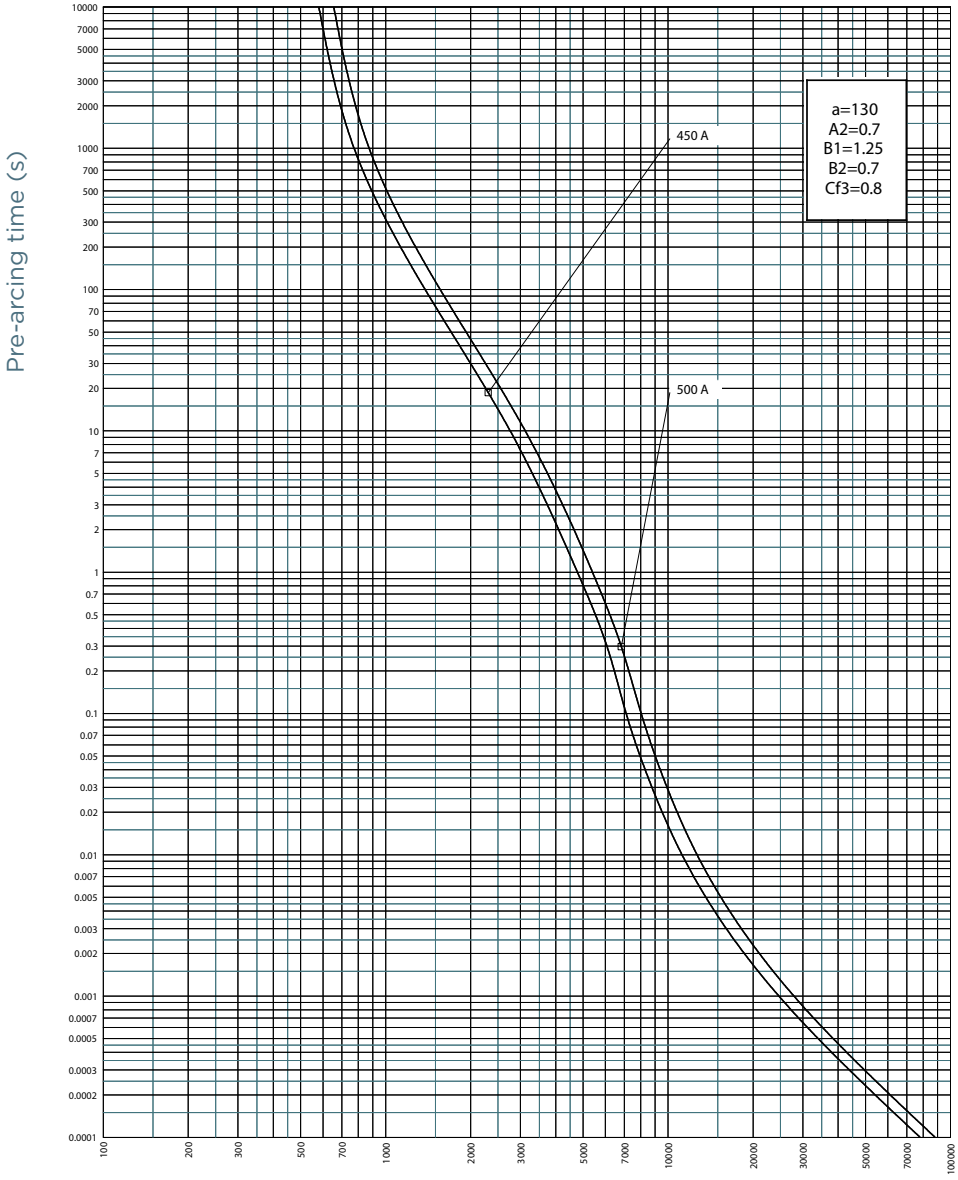
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

Expertise, our source of energy

TIME CURRENT CHARACTERISTIC CURVES

Special purpose gBat fuse link size 3L 1500V 450-500A



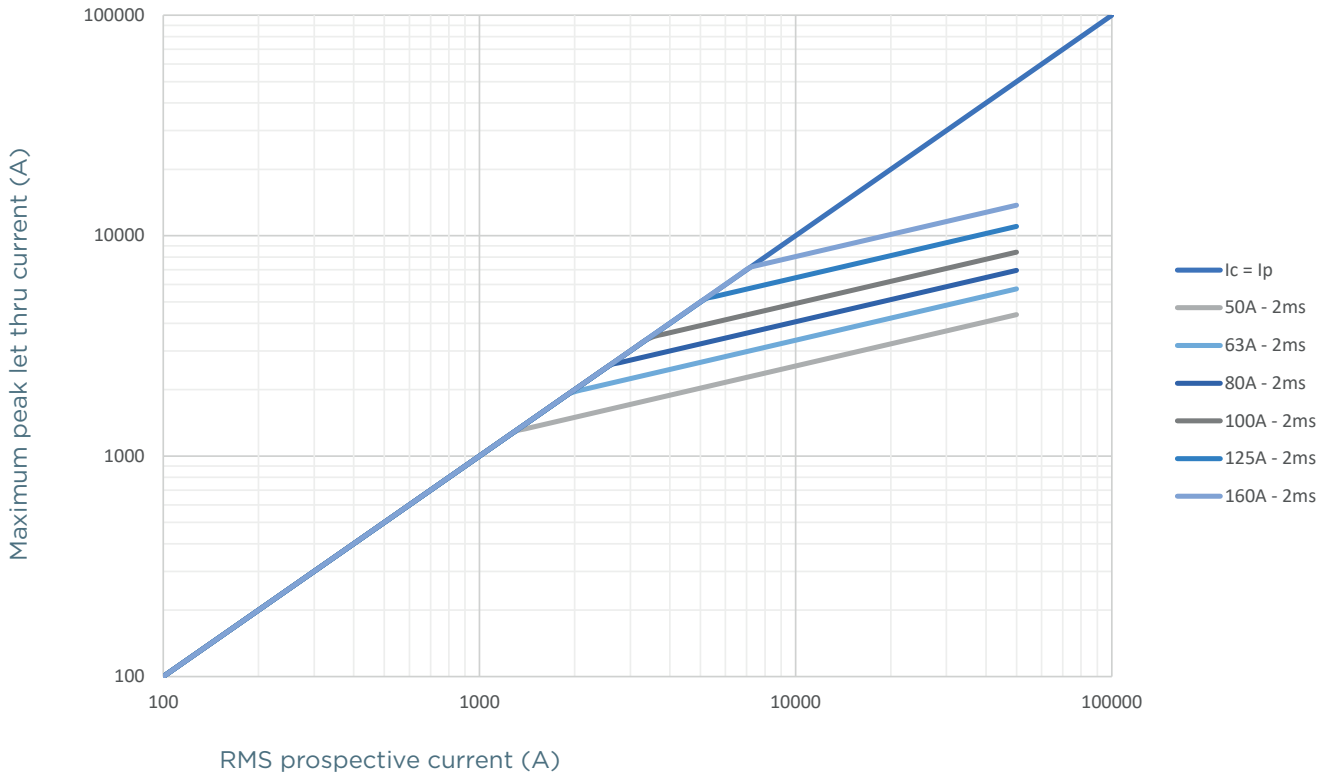
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

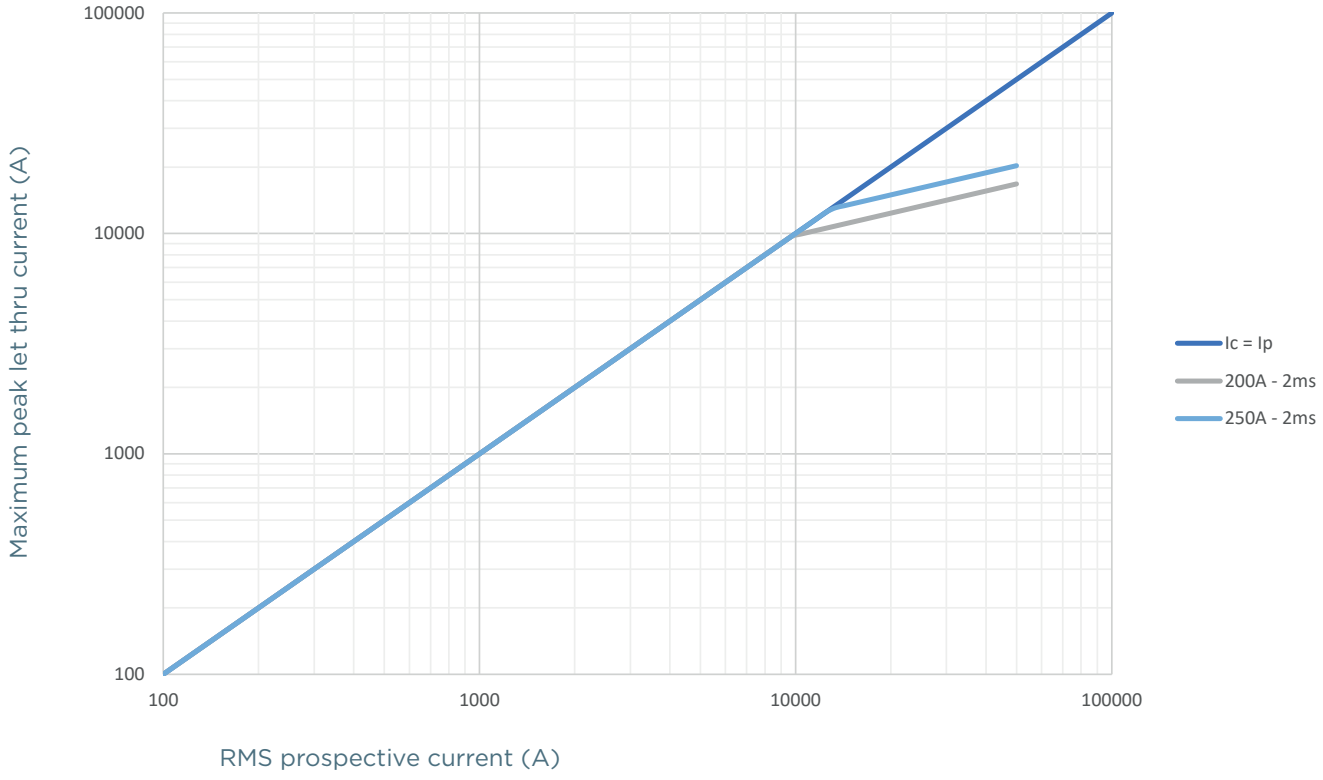
Expertise, our source of energy

CUT-OFF CURRENT CHARACTERISTIC

Special purpose gBat fuse link size NH1 1000V 50-160A



Special purpose gBat fuse link size NH2 1000V 200-250A



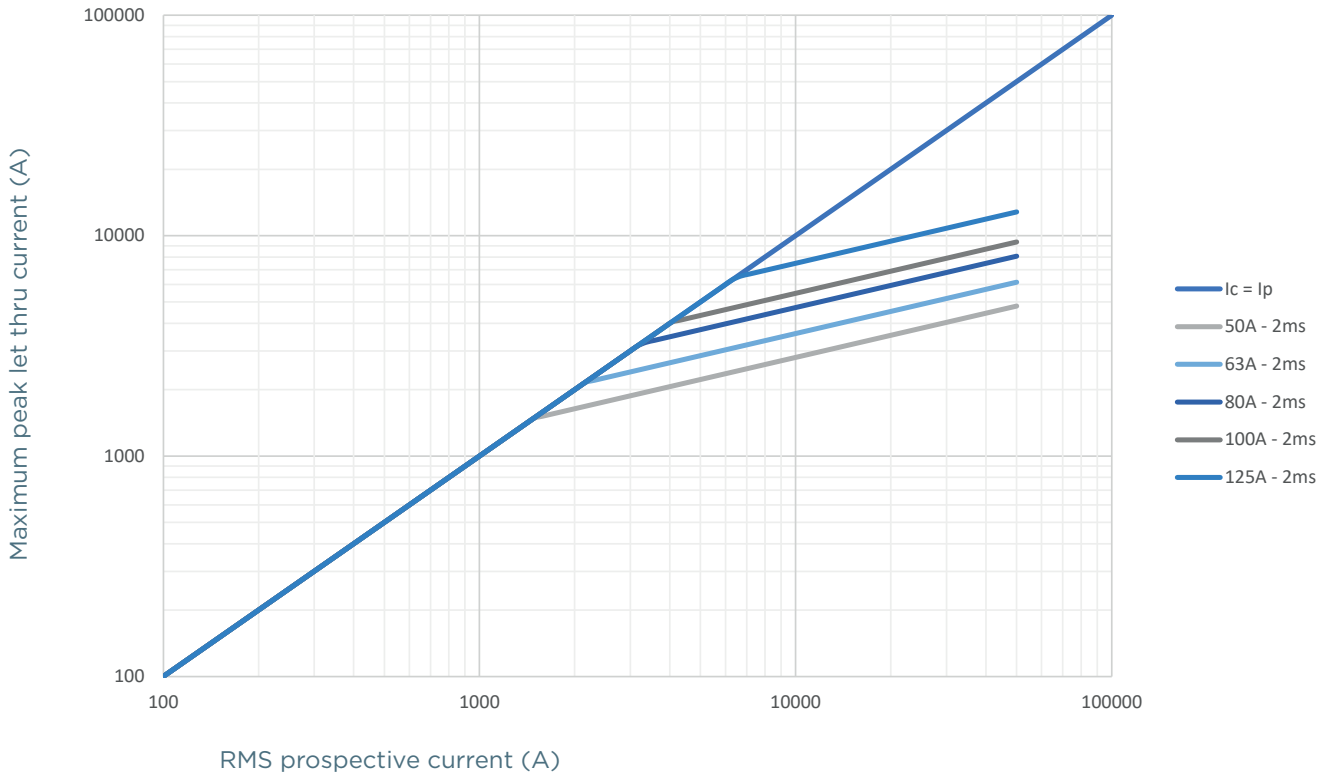
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

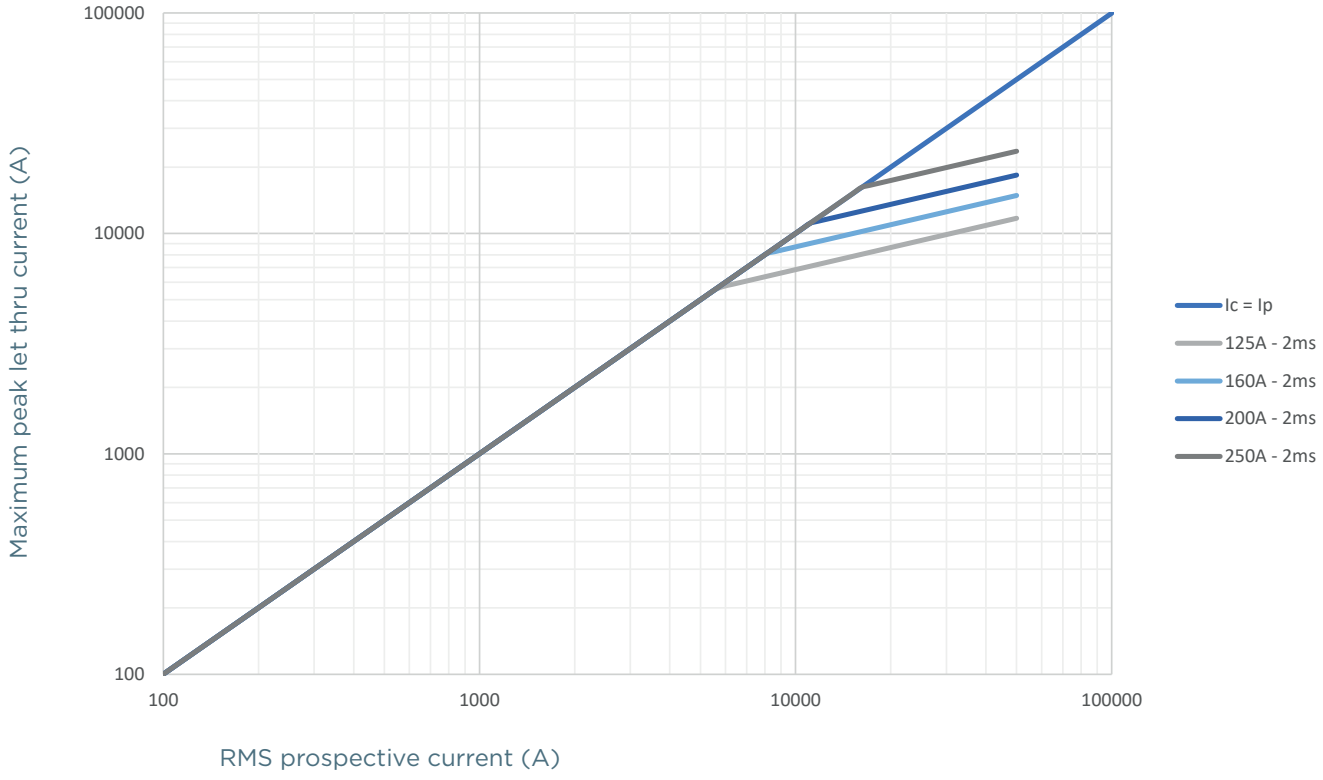
Expertise, our source of energy

CUT-OFF CURRENT CHARACTERISTIC

Special purpose gBat fuse link size 1XL 1500V 50-125A



Special purpose gBat fuse link size 2XL 1500V 125-250A



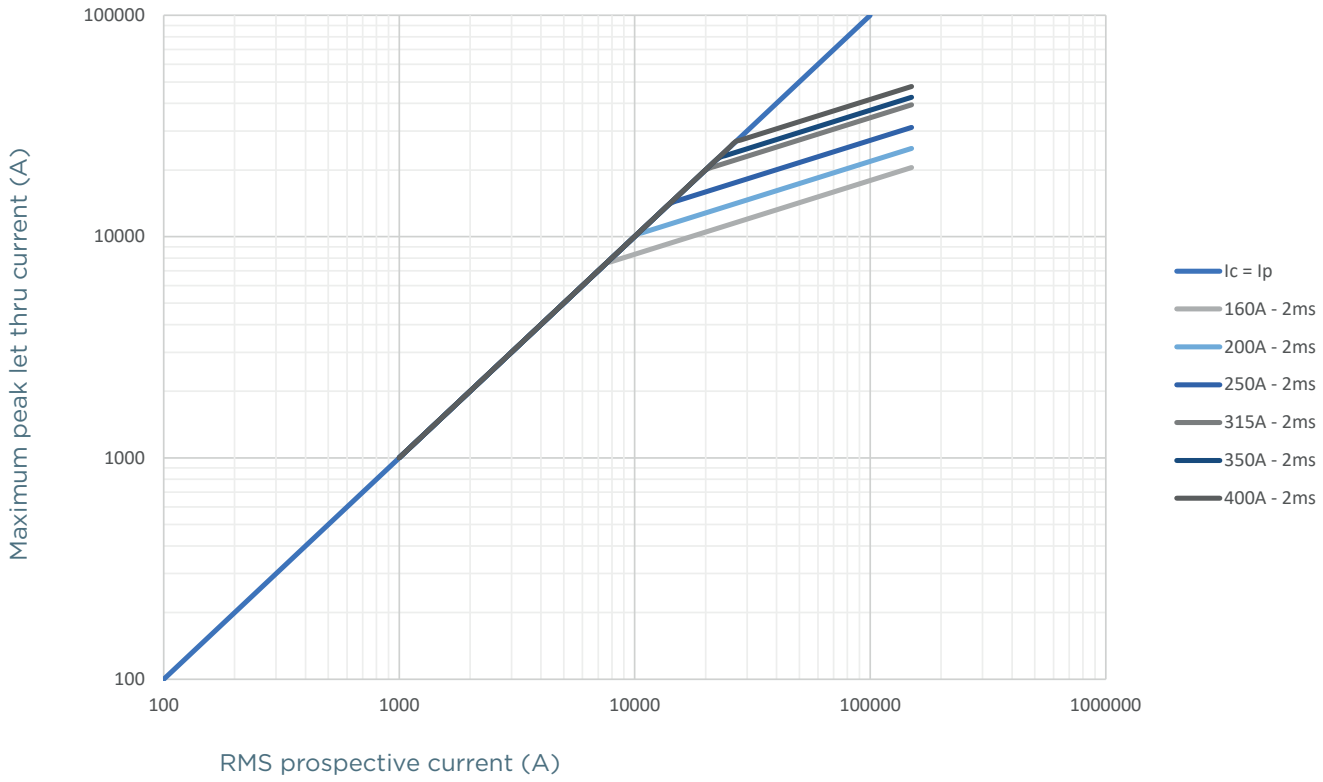
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

MERSEN Expertise, our source of energy

CUT-OFF CURRENT CHARACTERISTIC

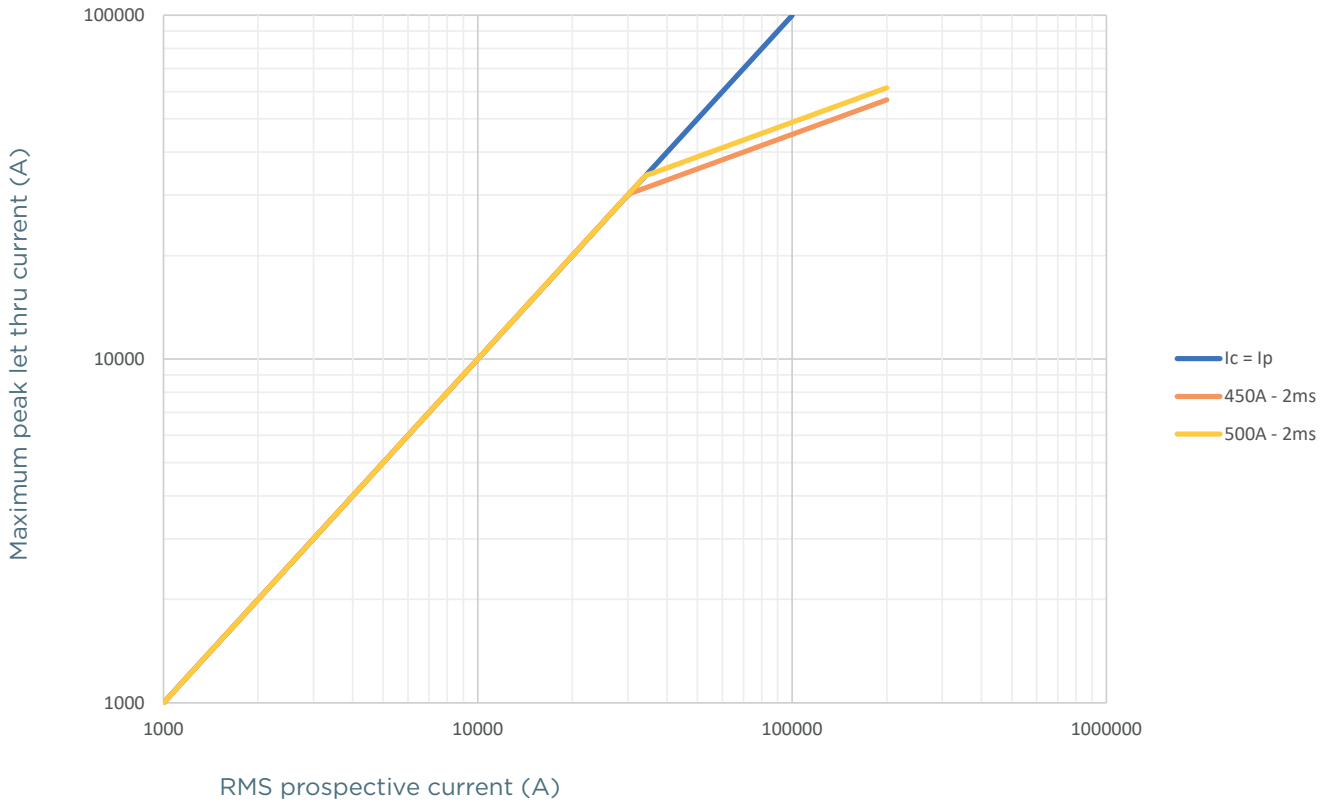
Special purpose gBat fuse link size 3L 1500V 160-400A



©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

CUT-OFF CURRENT CHARACTERISTIC

Special purpose gBat fuse link size 3L 1500V 450-500A



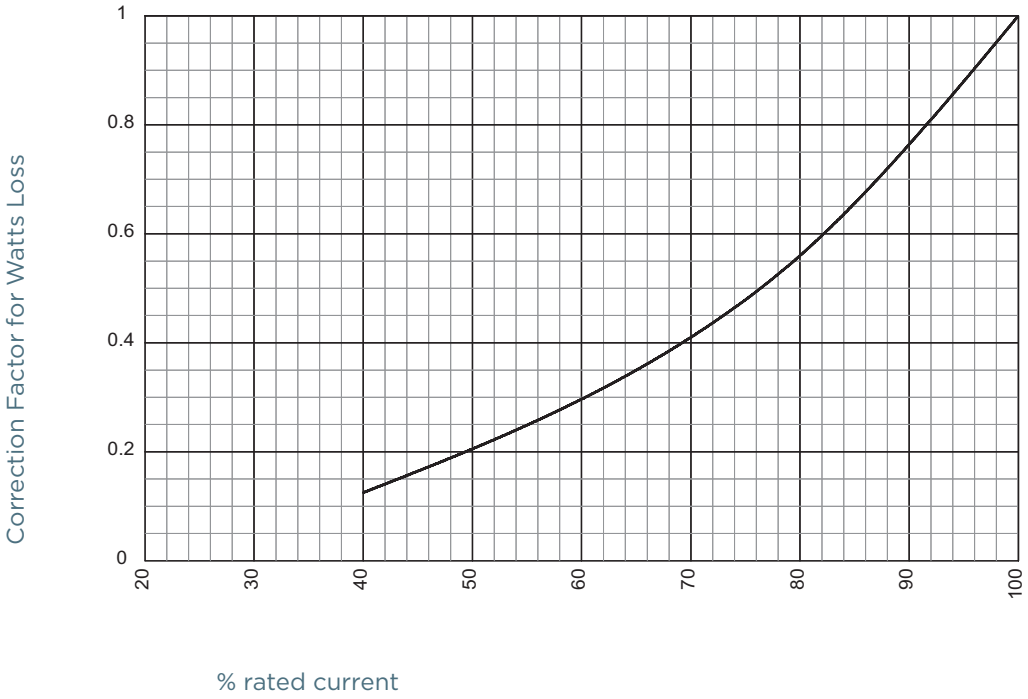
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

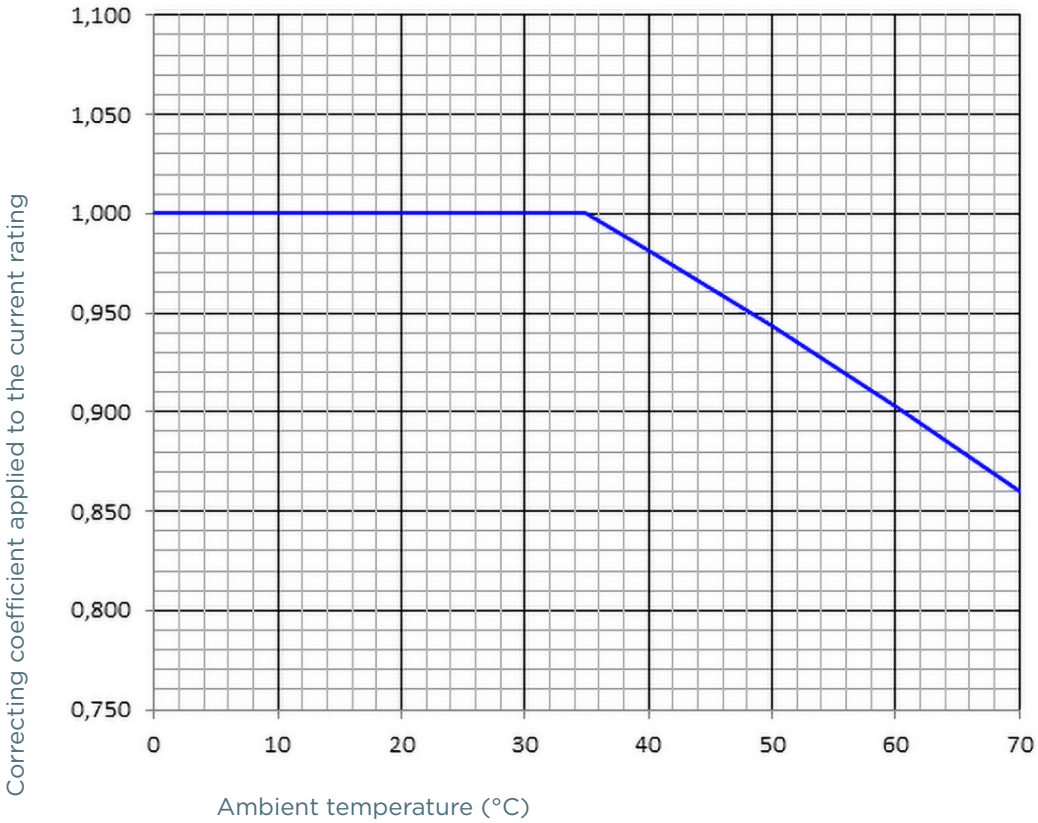
Expertise, our source of energy

CORRECTION FACTOR

Watts loss vs % rated current



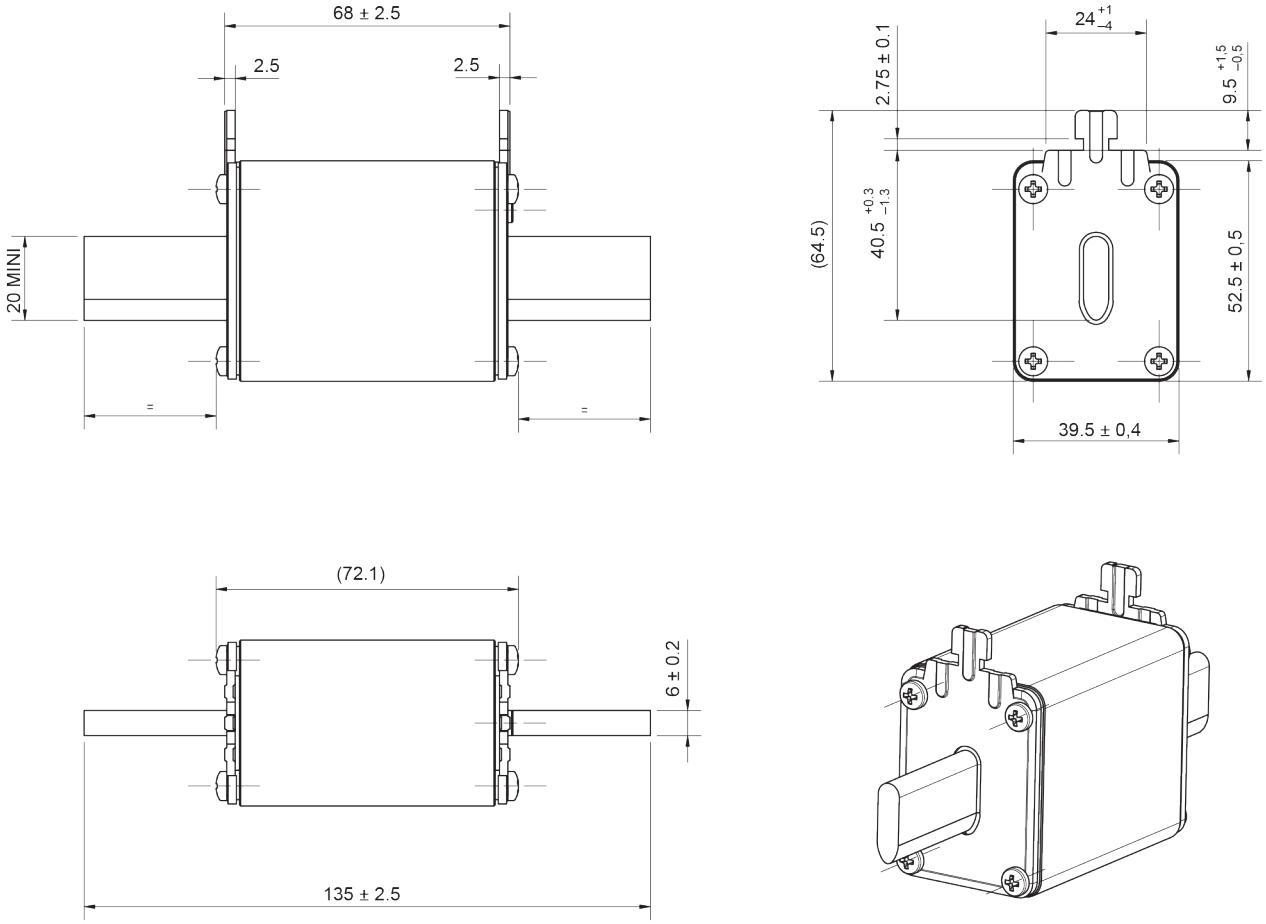
TEMPERATURE DERATING



©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

DIMENSIONS

Special purpose gBat fuse link size NH1 Plain Blade without trip indicator



Dimensions in mm

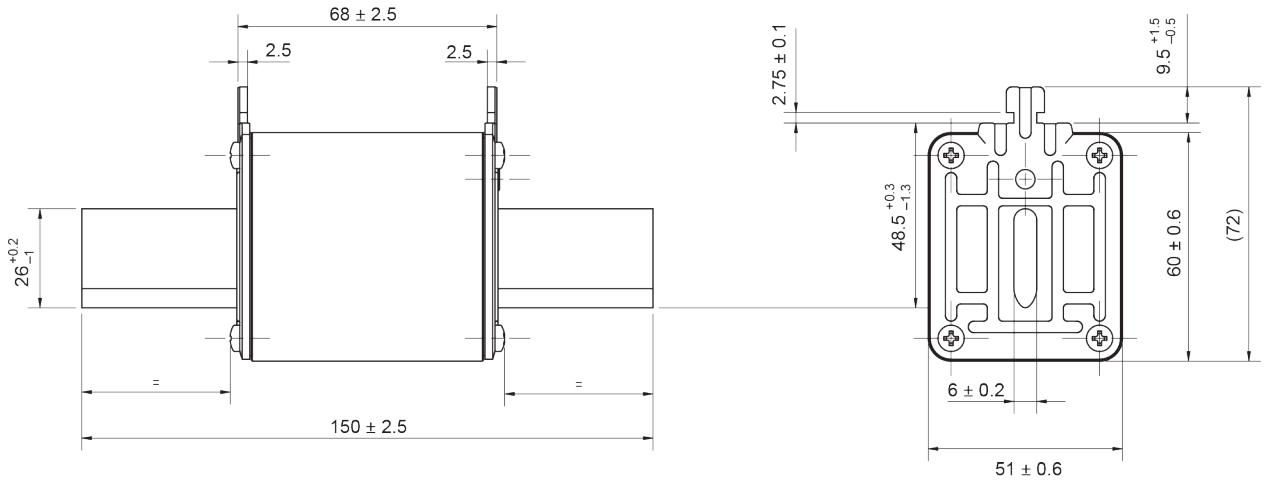
MERSEN.COM

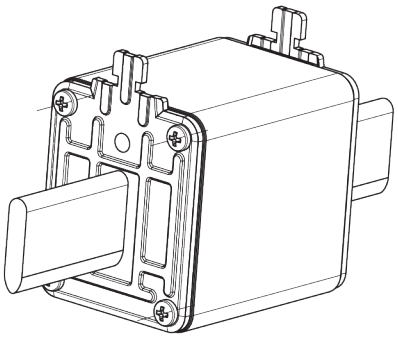
© 2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

Expertise, our source of energy

DIMENSIONS

Special purpose gBat fuse link size NH2 Plain Blade without trip indicator



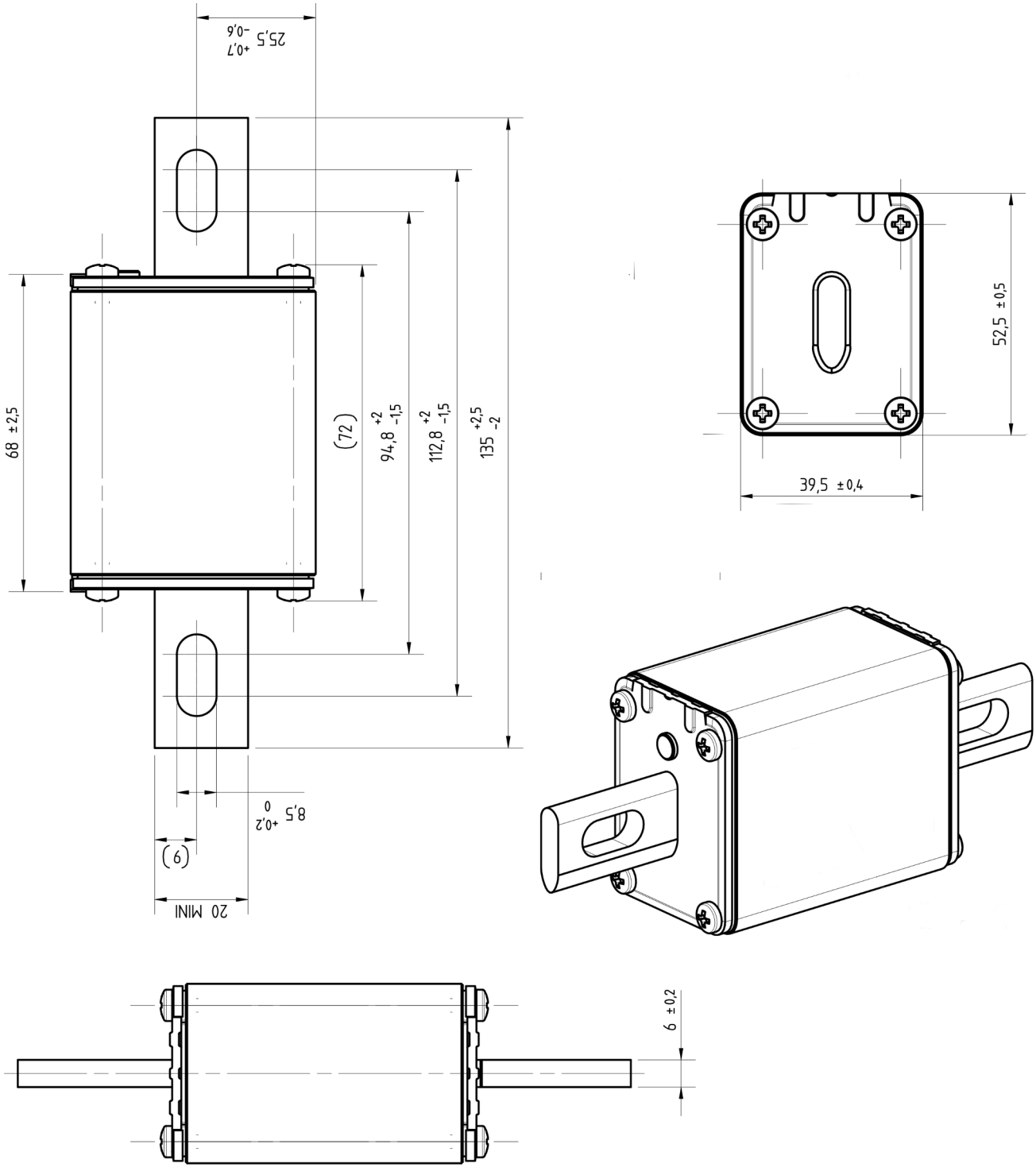


Dimensions in mm

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

DIMENSIONS

Special purpose gBat fuse link size NH1 Direct Mounting without trip indicator and without lugs

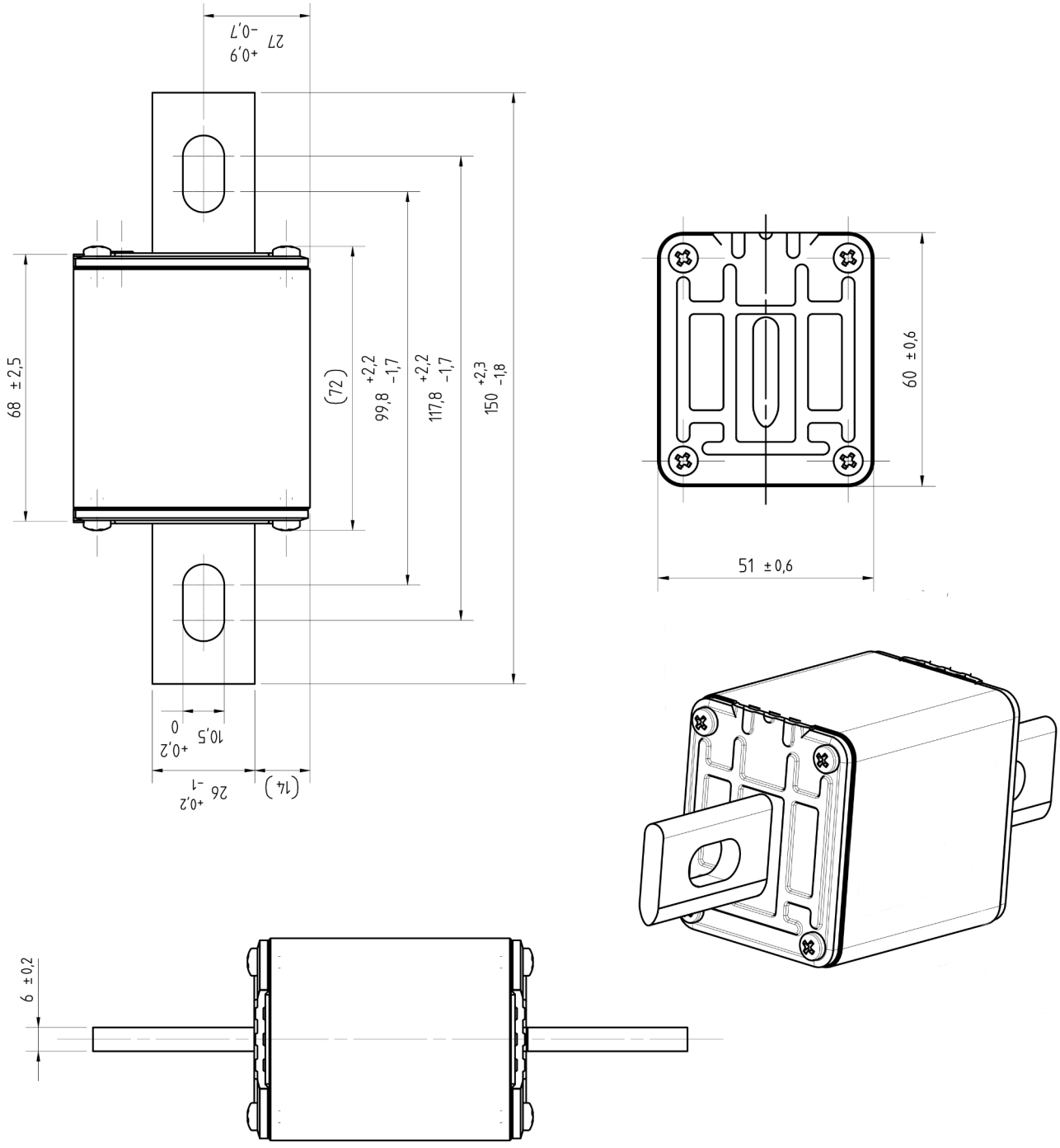


Dimensions in mm

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

DIMENSIONS

Special purpose gBat fuse link size NH2 Direct Mounting without trip indicator and without lugs



Dimensions in mm

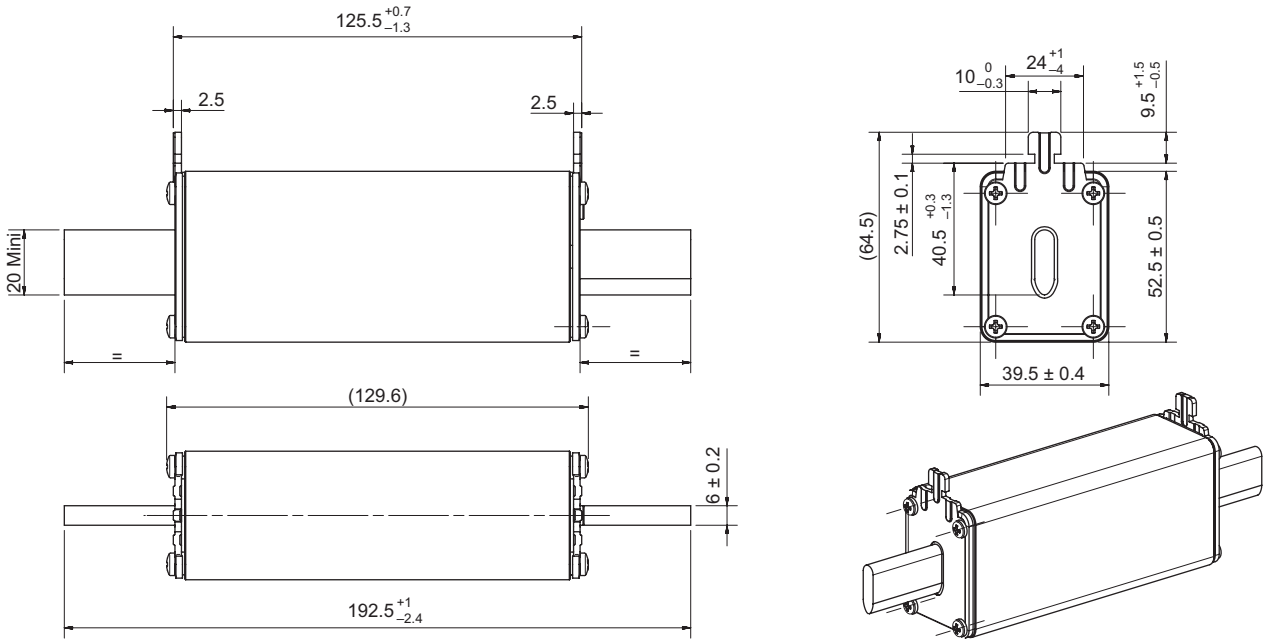
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

MERSEN Expertise, our source of energy

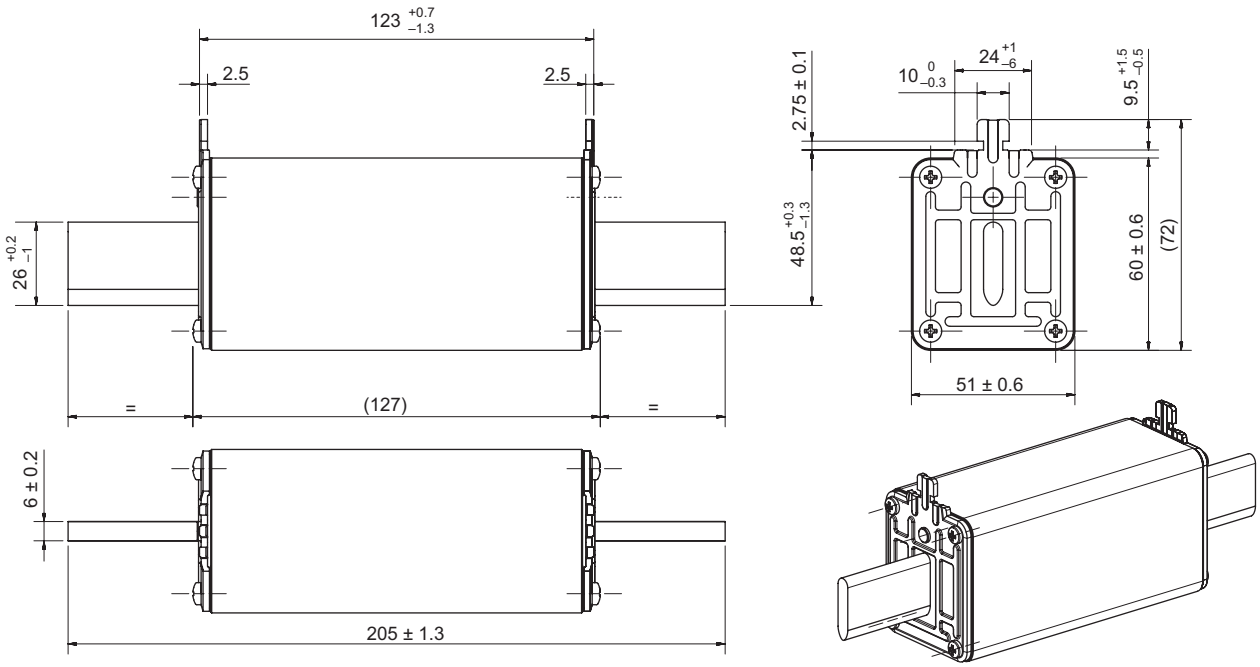
DIMENSIONS

Special purpose gBat fuse link Plain Blade size 1XL



Dimensions in mm

Special purpose gBat fuse link Plain Blade size 2XL

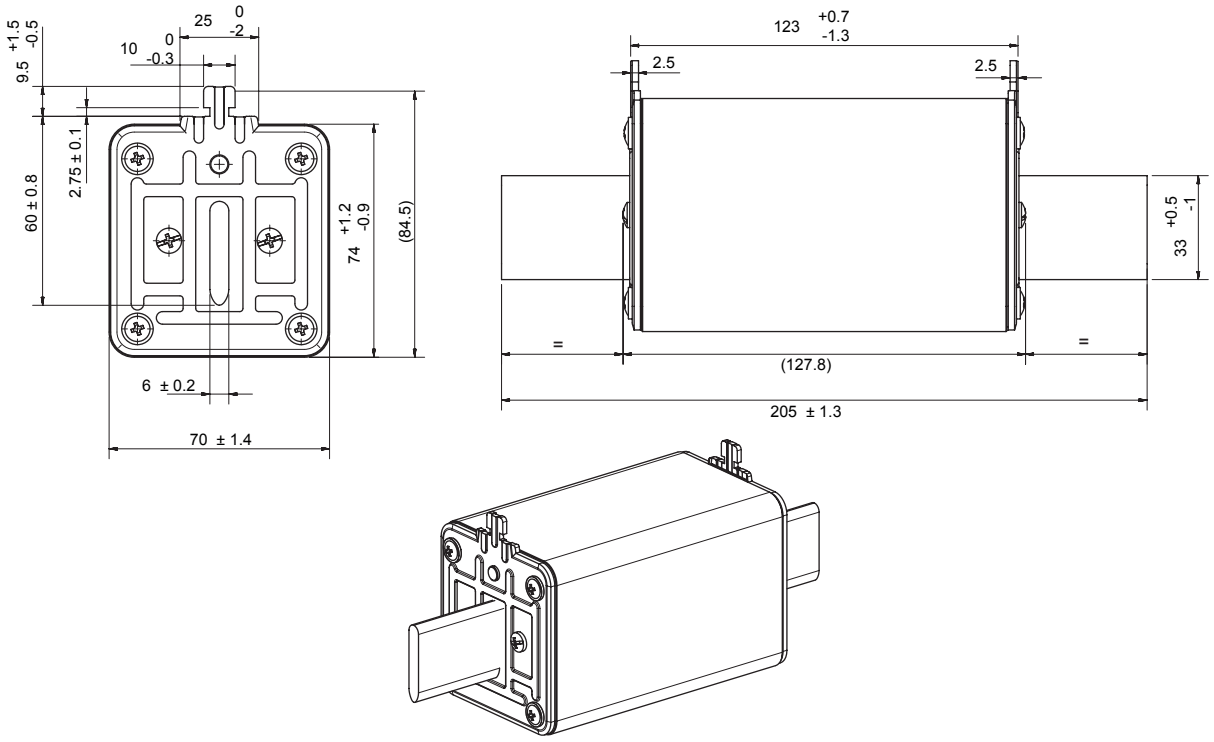


Dimensions in mm

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

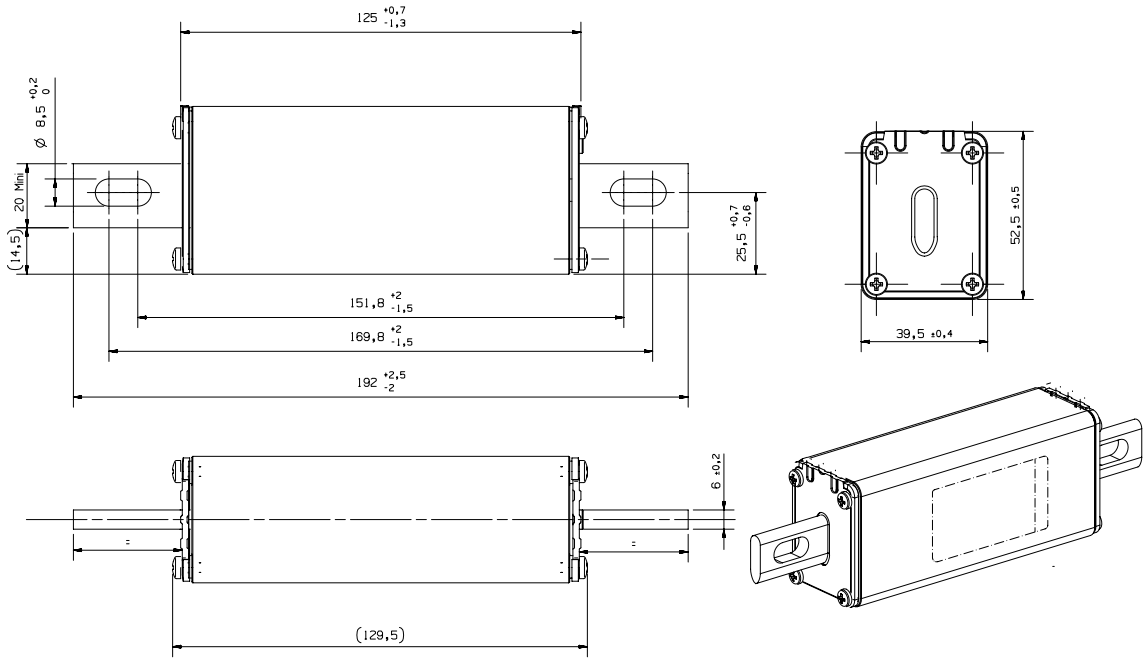
DIMENSIONS

Special purpose gBat fuse-link size 3L Plain Blade without striker



Dimensions in mm

Special purpose gBat fuse-link size 1XL Direct Mounting without striker and without lugs



Dimensions in mm

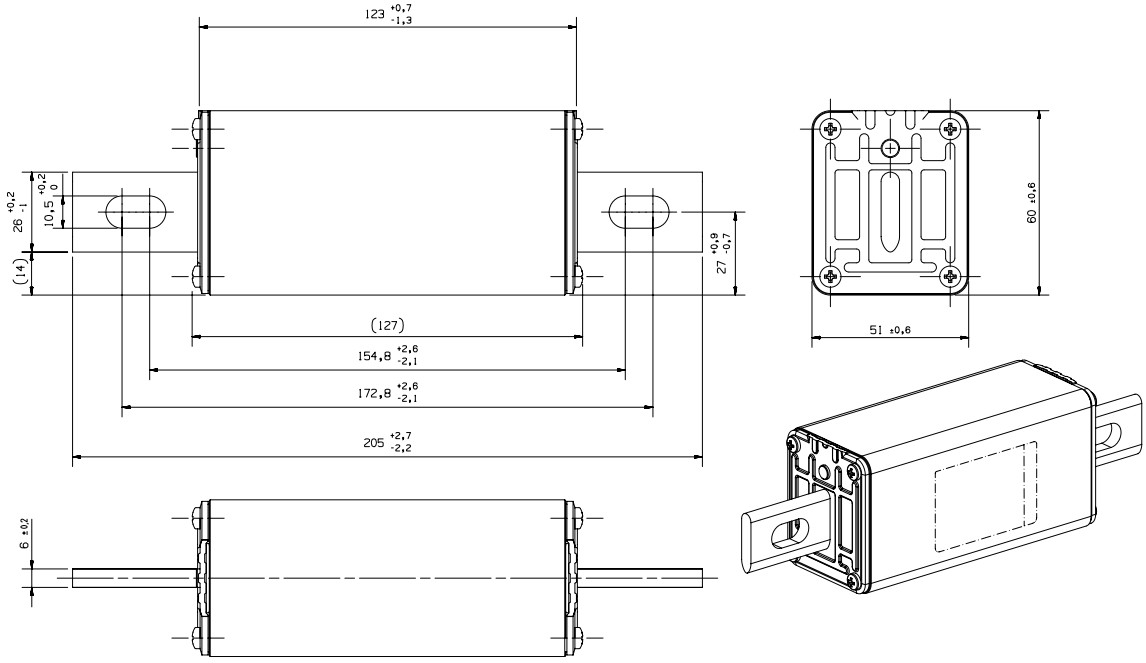
MERSEN.COM

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.

MERSEN Expertise, our source of energy

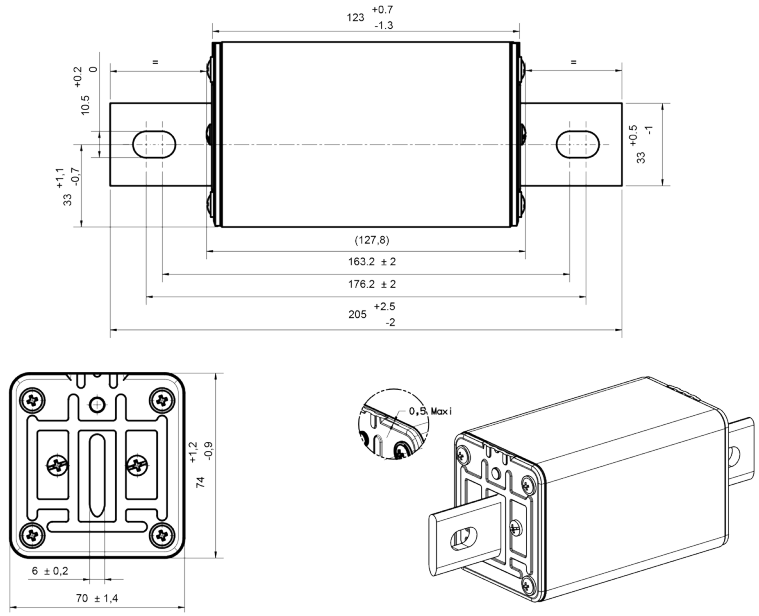
DIMENSIONS

Special purpose gBat fuse-link size 2XL Direct Mounting without striker and without lugs



Dimensions in mm

Special purpose gBat fuse-link size 3L Direct Mounting without striker and without lugs



Dimensions in mm

©2026 Mersen. All rights reserved. Mersen reserves the right to change, adapt, limit or discontinue its products. Therefore the data provided herein are for information only and are not contractually binding. To ensure that Mersen provides the best solution to your needs, please contact and provide Mersen with all relevant technical specifications and conditions.