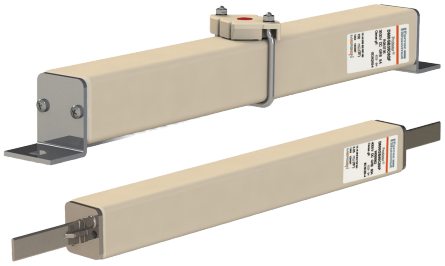
Protistor® size 600 gR

3500 to 4000VDC

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS DC PROTECTION



FEATURES & BENEFITS

- Extremely fast acting
- Current limiting
- Very low I^2t
- Worldwide acceptability
- Superior cycling ability

APPLICATIONS

- Suburban lines: 3kVDC

Mersen DC high performance power fuses were developed to provide superior protection for railway power circuits.

These fuse-links are typically operated at more elevated temperatures than other fuse types.

They have lower I^2t to minimize damage to components in case of short circuits, and have lower watts loss and longer life.

TECHNICAL DATA OVERVIEW

Voltage Range DC	3500V-4000VDC
Ampere Range (A)	6…125A
Speed/Characteristic	gR
Product Size	600
Package	1

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PRODUCT RANGE



D600GB35C8QF

Bracket size 600 gR 3500 to 4000VDC

Catalog number	Item number	Rated voltage DC	Rated current I_n	Pre-arcing I^2t	Max. Interrupting Rating IR @Rated Voltage	Watt Loss @0,8I_n	Watt Loss @I_n	Weight
D600GB35C6QF	S083736	3500	6	18 A²s	30 kA, L/R = 30 ms	5,2 W	9.5W	1,92 kg
D600GB35C8QF	R083735	3500	8	40.5 A²s	30 kA, L/R = 30 ms	7,0 W	12.7 W	1,92 kg
D600GB35C10QF	N089390	3500	10	40.5 A²s	30 kA, L/R = 30 ms	10,2 W	18.5 W	1,92 kg
D600GB35C12QF	V082220	3500	12	60.5 A²s	30 kA, L/R = 30 ms	11 W	20 W	1,92 kg
D600GB35C16QF	P089391	3500	16	112.5 A²s	30 kA, L/R = 30 ms	13,2 W	24 W	1,92 kg
D600GB35C20QF	Q089392	3500	20	200 A²s	30 kA, L/R = 30 ms	13,2 W	25.4 W	1,92 kg
D600GB35C25QF	R089393	3500	25	288 A²s	30 kA, L/R = 30 ms	17,9 W	32.5 W	1,92 kg
D600GB40C32QF	A086963	4000	32	450 A²s	30 kA, L/R = 30 ms	25,3 W	46 W	1,92 kg
D600GB40C40QF	B086964	4000	40	760 A²s	30 kA, L/R = 30 ms	34,7 W	63 W	1,92 kg
D600GB40C50QF	C086965	4000	50	1352 A²s	30 kA, L/R = 30 ms	28,6 W	52 W	1,92 kg
D600GB40C63QF	D086966	4000	63	2178 A²s	30 kA, L/R = 30 ms	42,1 W	76.5 W	1,92 kg
D600GB40C80QF	E086967	4000	80	3872 A²s	30 kA, L/R = 30 ms	50,6 W	92 W	1,92 kg
D600GD40C80QF	B075763	4000	80	2048 A²s	30 kA, L/R = 15 ms	36,9 W	67 W	1,92 kg
D600GD40C100QF	C075764	4000	100	2949 A²s	30 kA, L/R = 15 ms	48,4 W	88 W	1,92 kg
D600GD40C125QF	D075765	4000	125	5918 A²s	30 kA, L/R = 15 ms	60,5 W	110 W	1,92 kg



D600GB40C80P

Blade size 600 gR 3500 to 4000VDC

Catalog number	Item number	Rated voltage DC	Rated current I_n	Pre-arcing I^2t	Max. Interrupting Rating IR @Rated Voltage, L/R = 30ms	Watt Loss @0,8I_n	Watt Loss @I_n	Weight
D600GB35C10P	K088145	3500	10	40.5 A²s	30 kA	10,2 W	18.5 W	1.42 kg
D600GB35C16P	D086989	3500	16	112 A²s	30 kA	13,2 W	24 W	1.42 kg
D600GB35C20P	N087481	3500	20	200 A²s	30 kA	14.0 W	25.5 W	1.42 kg
D600GB35C25P	E086783	3500	25	288 A²s	30 kA	17,9 W	32.5 W	1.42 kg
D600GB40C32P	A086986	4000	32	450 A²s	30 kA	25,3 W	46 W	1.42 kg
D600GB40C40P	Z086985	4000	40	760 A²s	30 kA	34,65 W	63 W	1.42 kg
D600GB40C50P	Y086984	4000	50	1352 A²s	30 kA	28,6 W	52 W	1.42 kg
D600GB40C63P	X086983	4000	63	2178 A²s	30 kA	42,1 W	76.5 W	1.42 kg
D600GB40C80P	W086982	4000	80	3872 A²s	30 kA	50,6 W	92 W	1.42 kg

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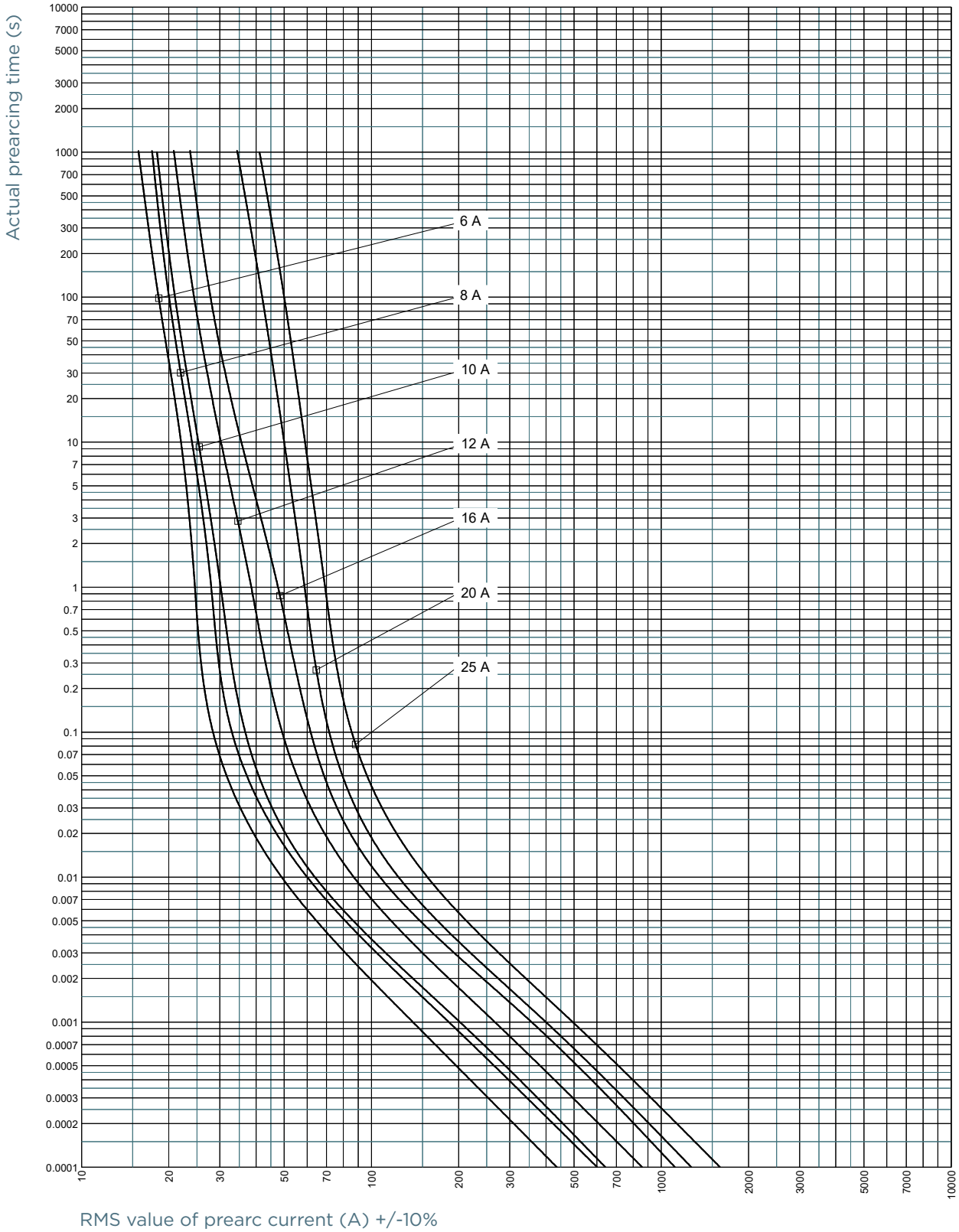
TIME CURRENT CHARACTERISTIC CURVES

3500V 6A-25A



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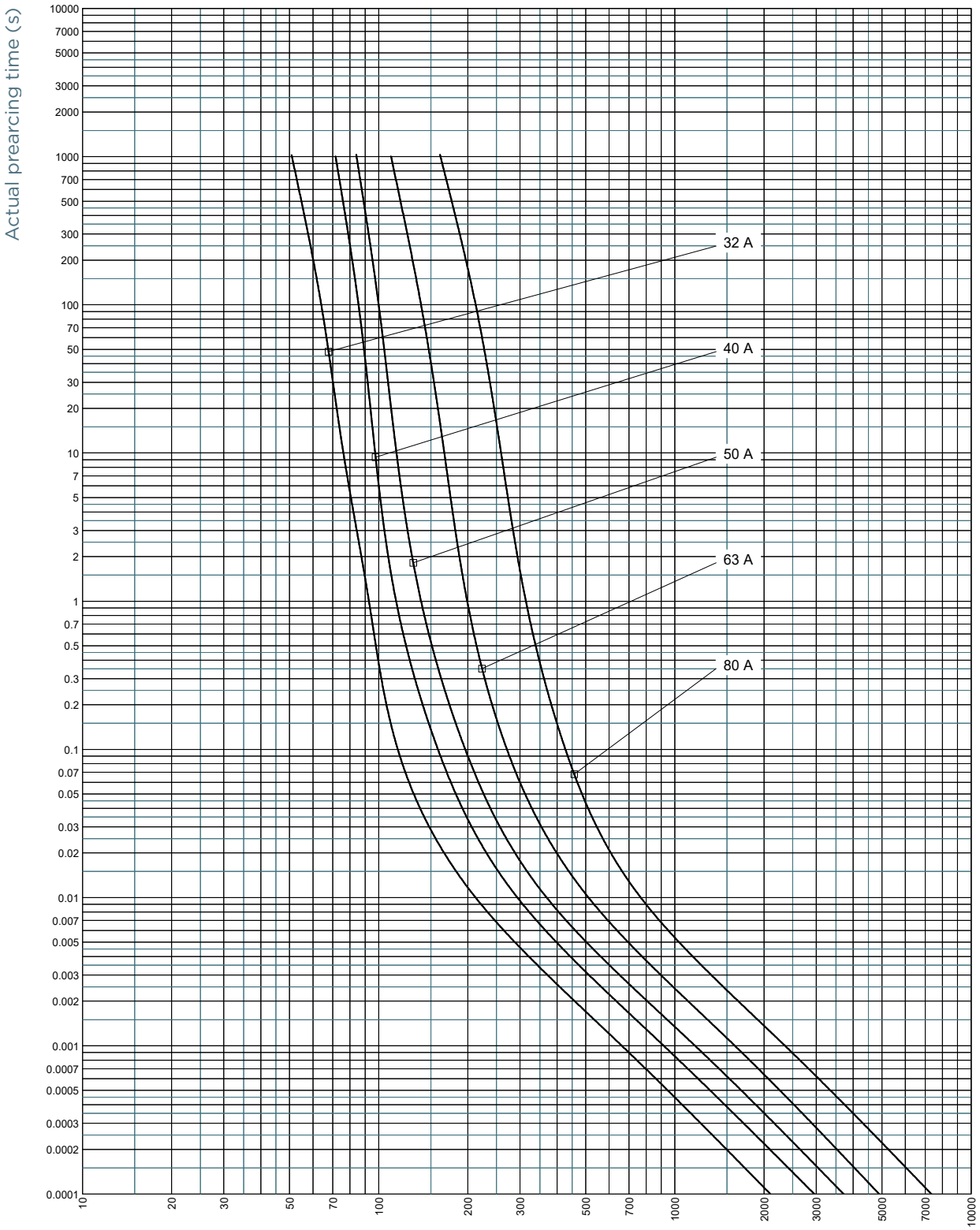
TIME CURRENT CHARACTERISTIC CURVES

4000V grB 32A-80A



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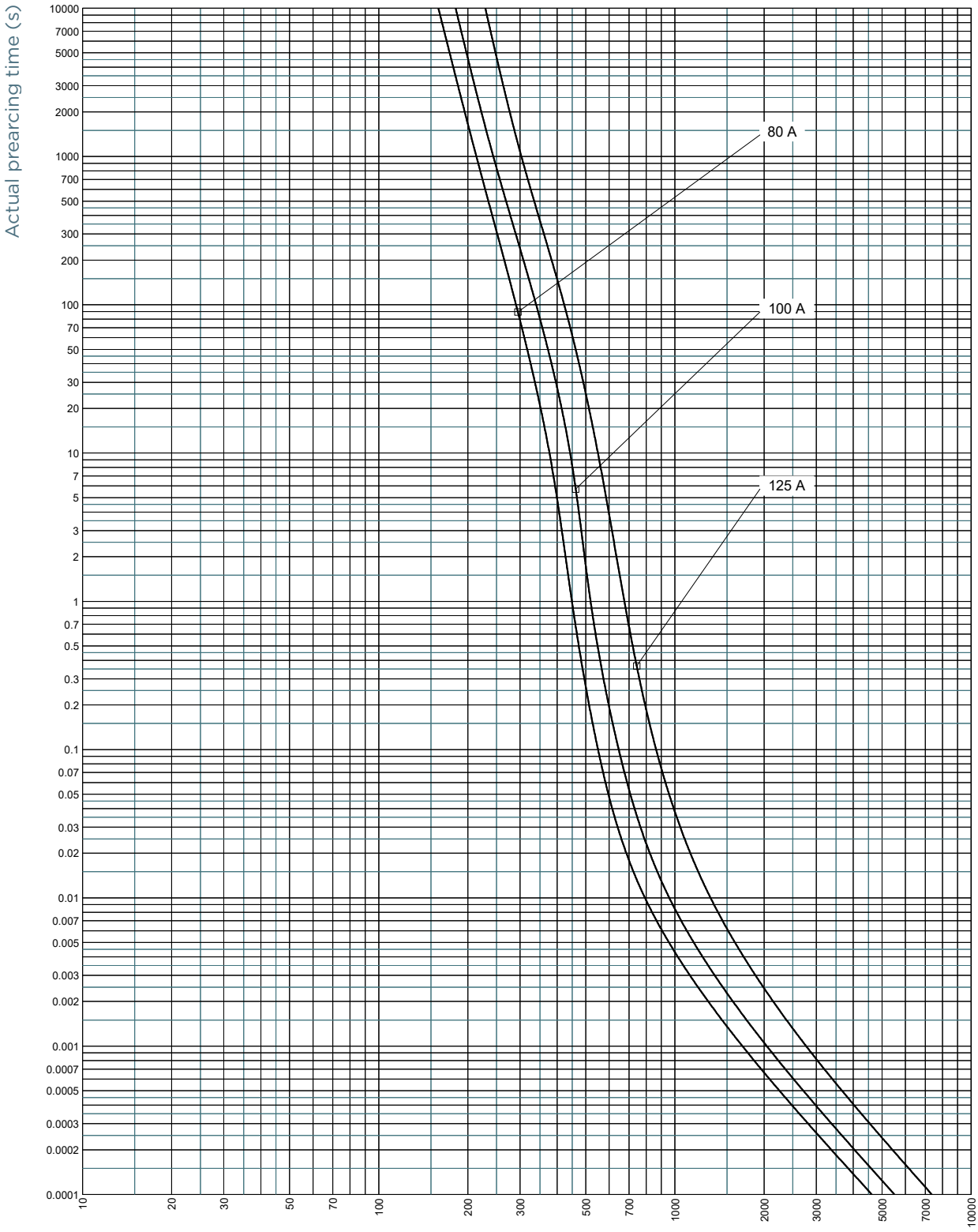
TIME CURRENT CHARACTERISTIC CURVES

4000V grD 80A-125A



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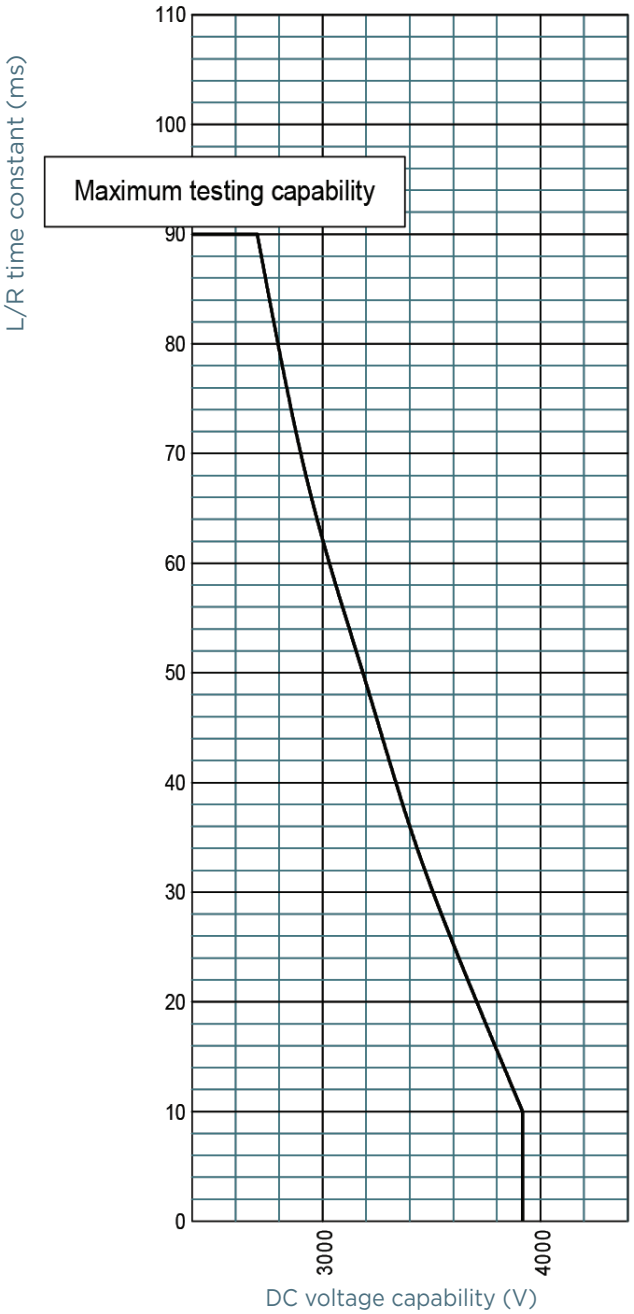
L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

3500V 6A-25A



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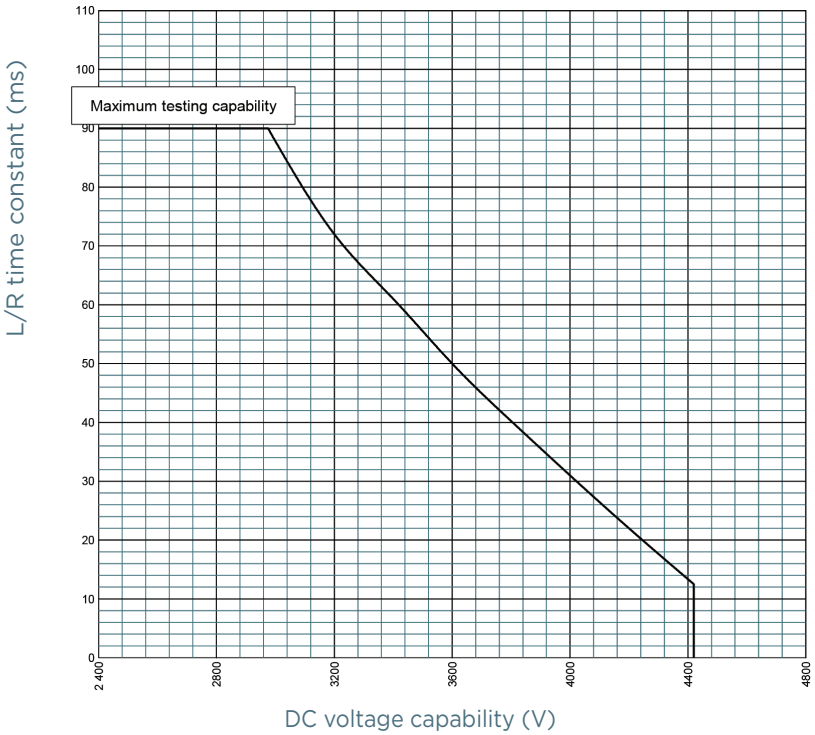
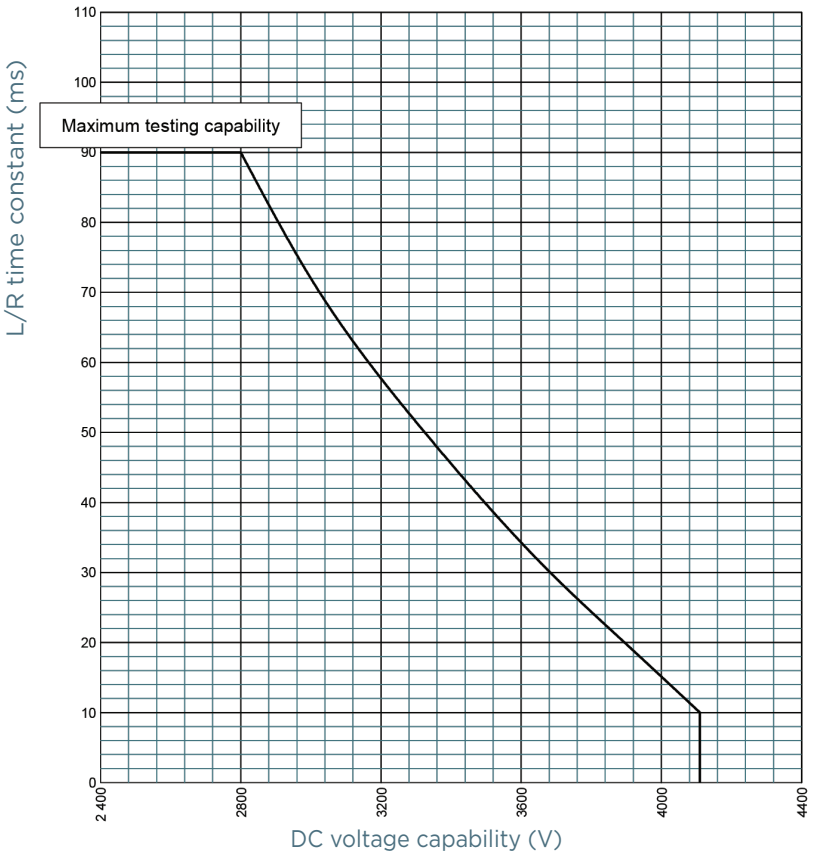
L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

4000V grB 32A-80A



4000V grD 80A-125A



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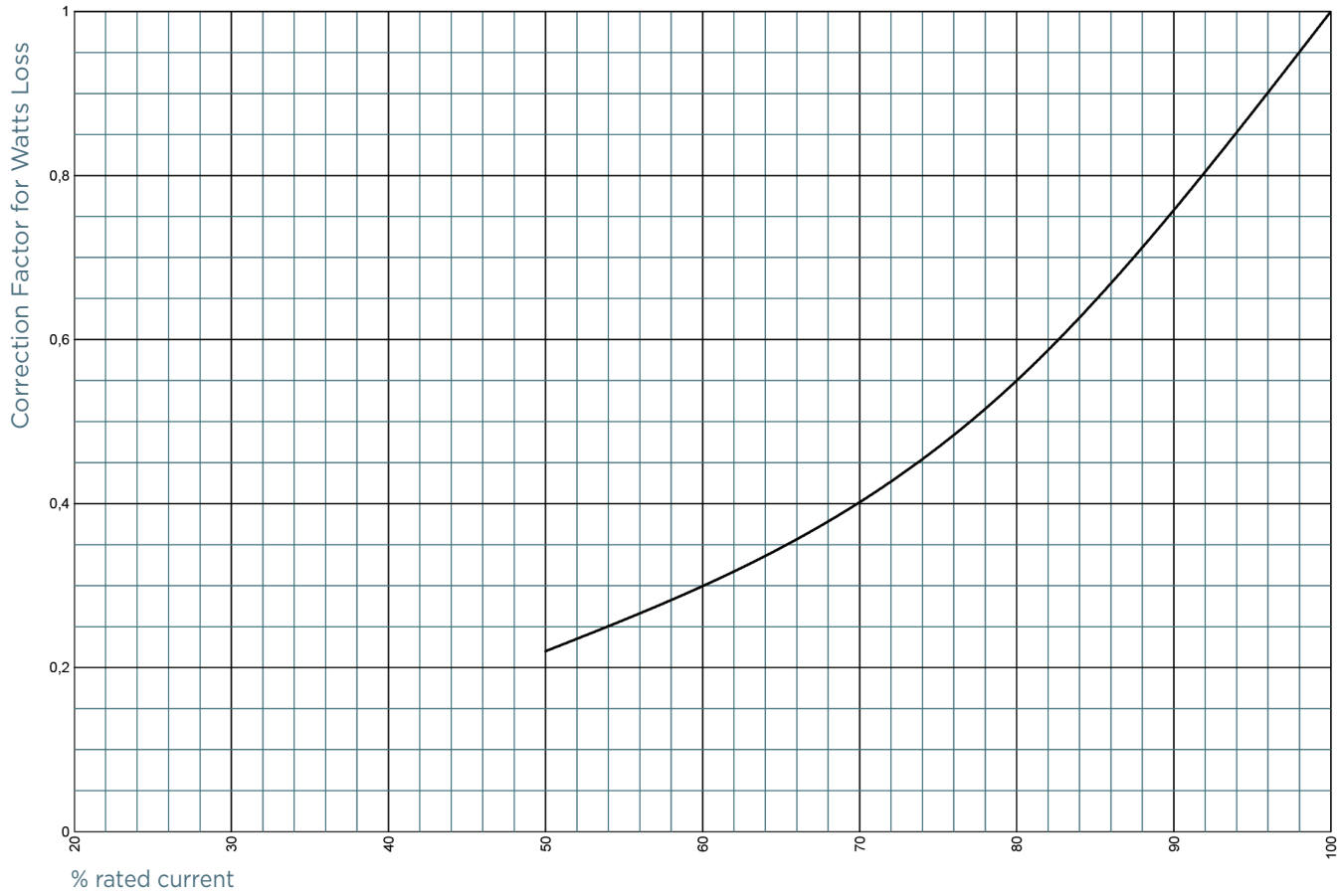
POWER DISSIPATION

3500V 6A-25A



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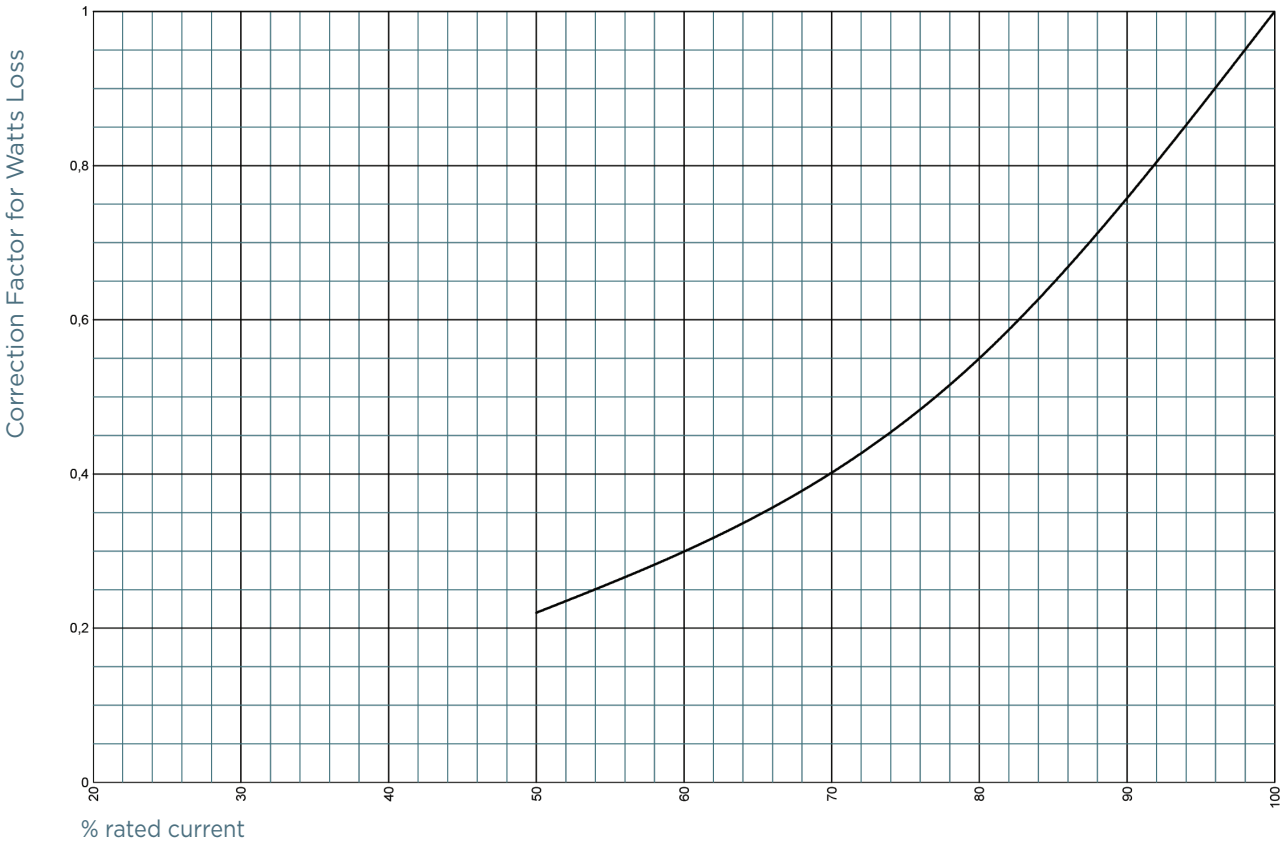
POWER DISSIPATION

4000V grB 32A-80A



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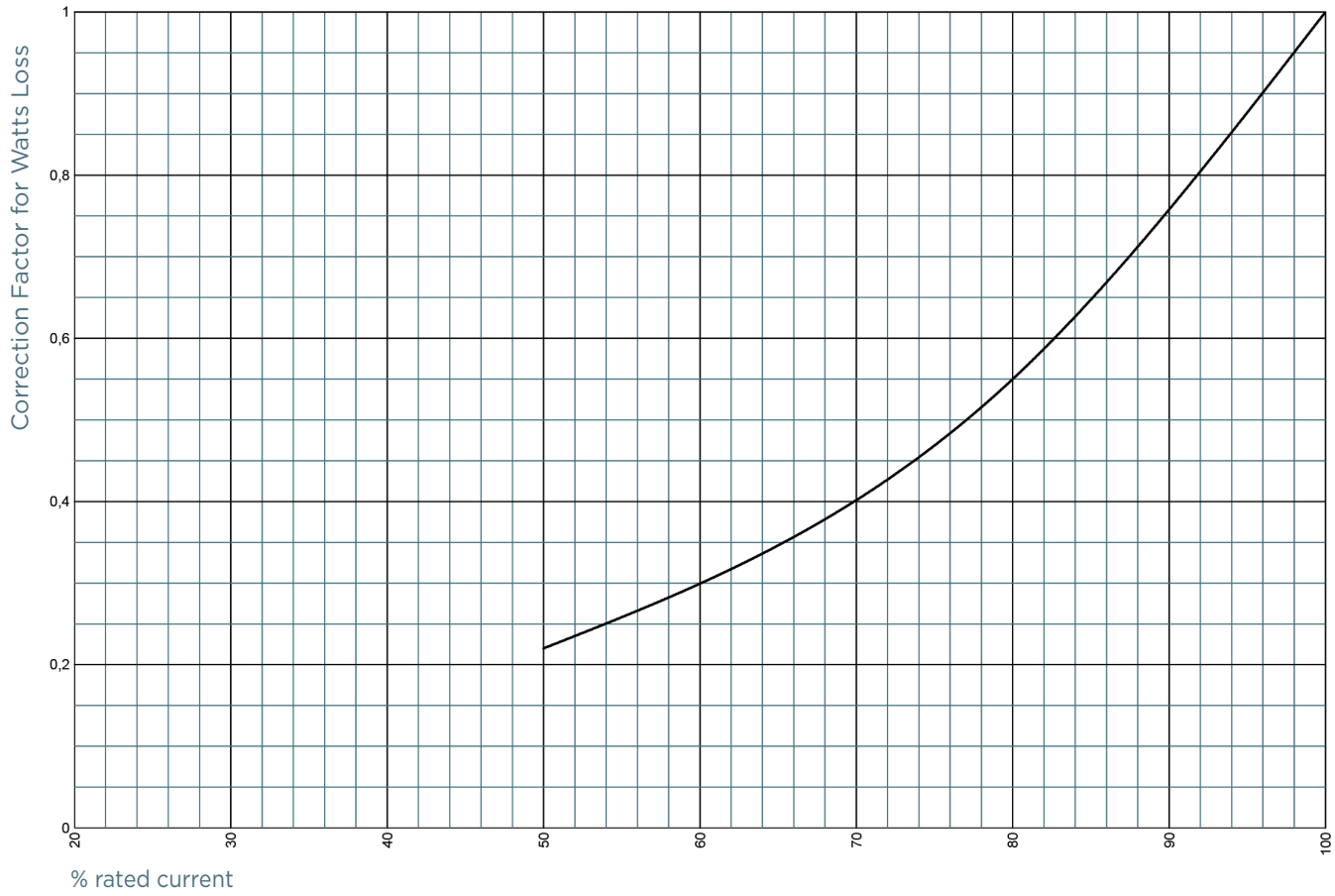
POWER DISSIPATION

4000V grD 80A-125A



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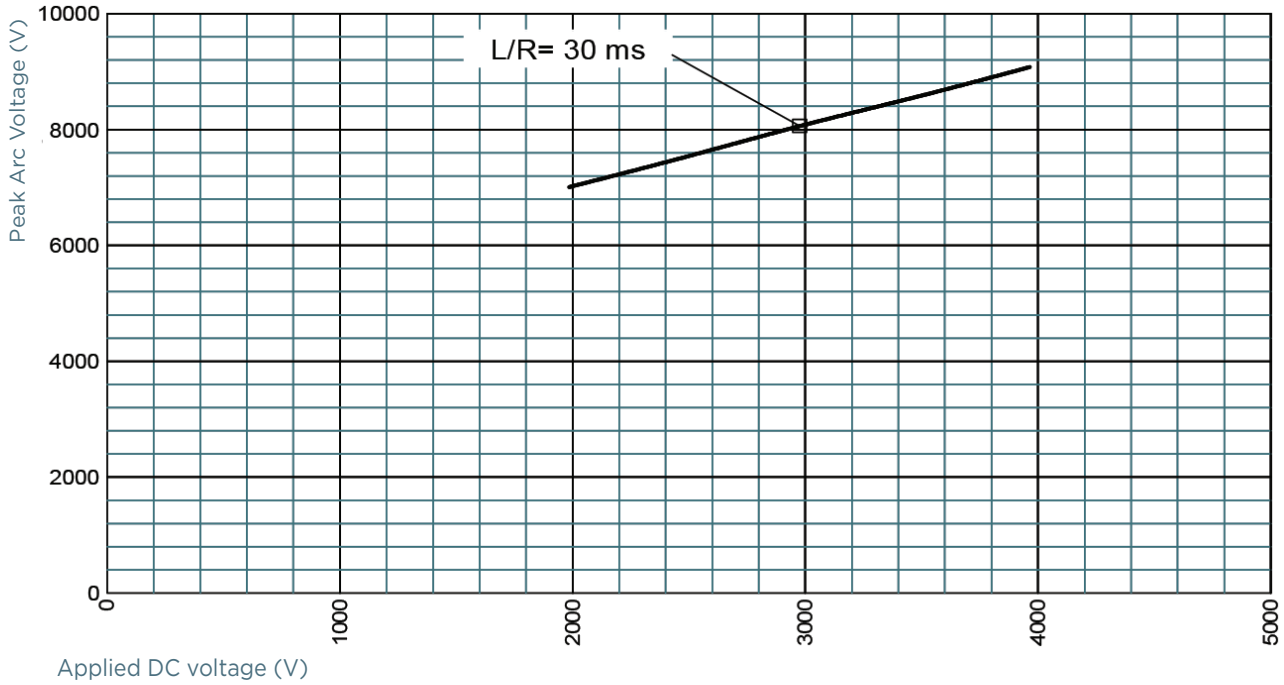
PEAK ARC VOLTAGE

3500V - 4000V grB 6A-80A



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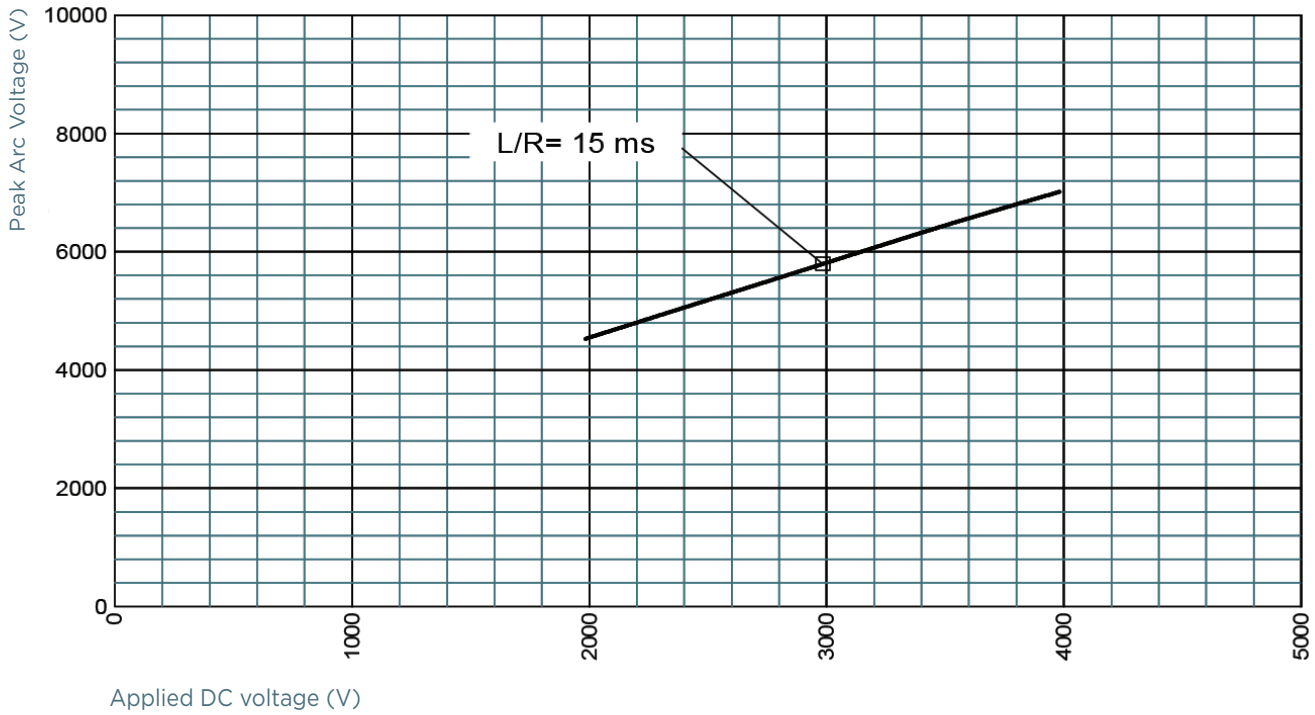
PEAK ARC VOLTAGE

4000V grD 80A-125A



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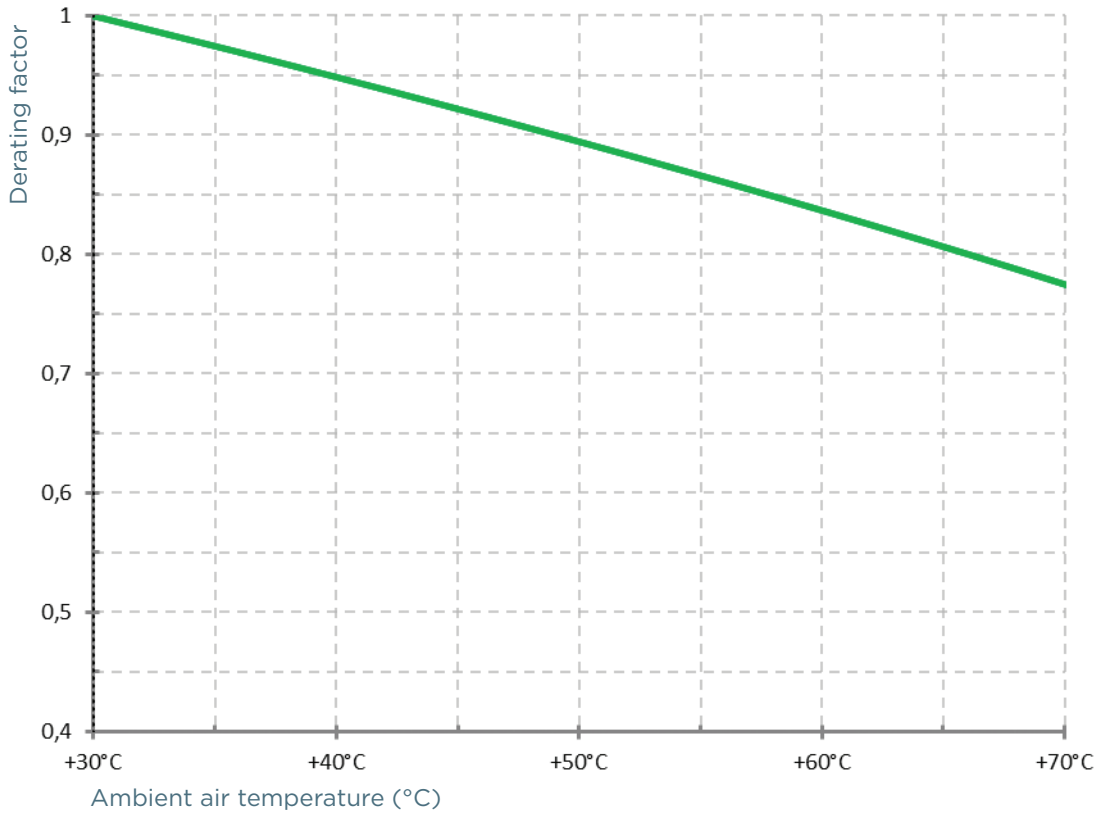
TEMPERATURE DERATING

Derating factor of rated current according to ambient air temperature (°C)



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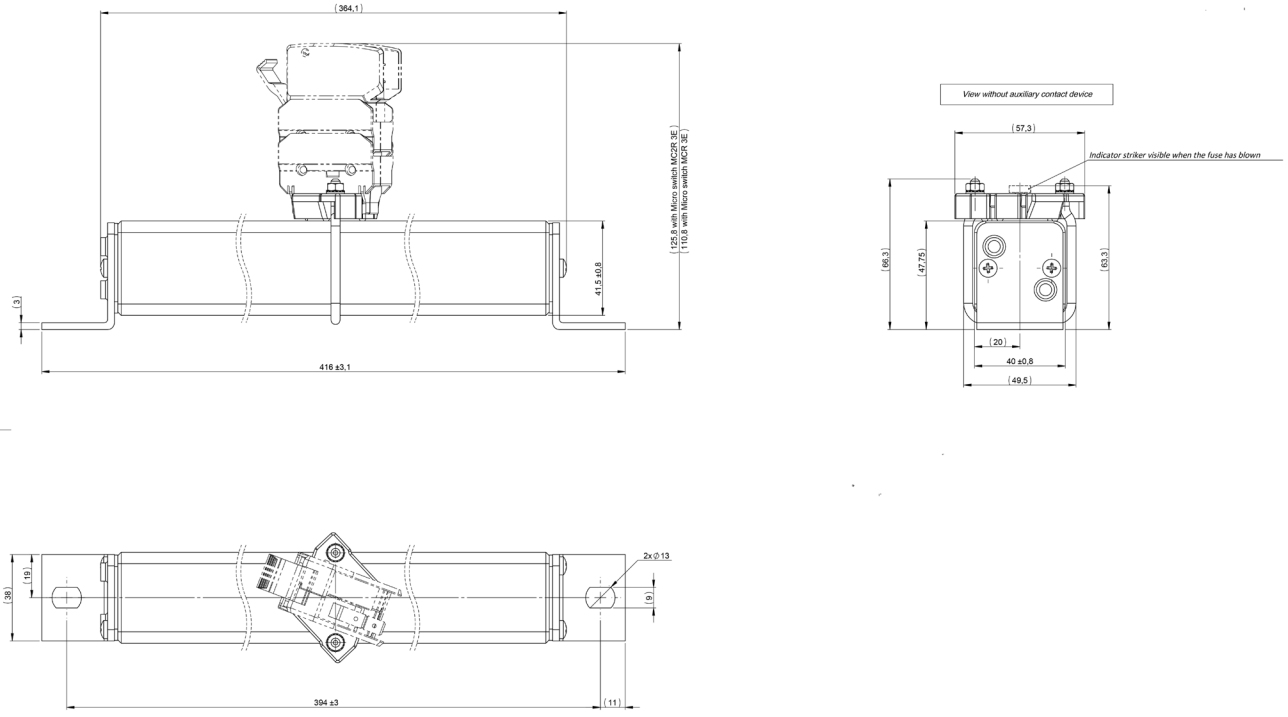
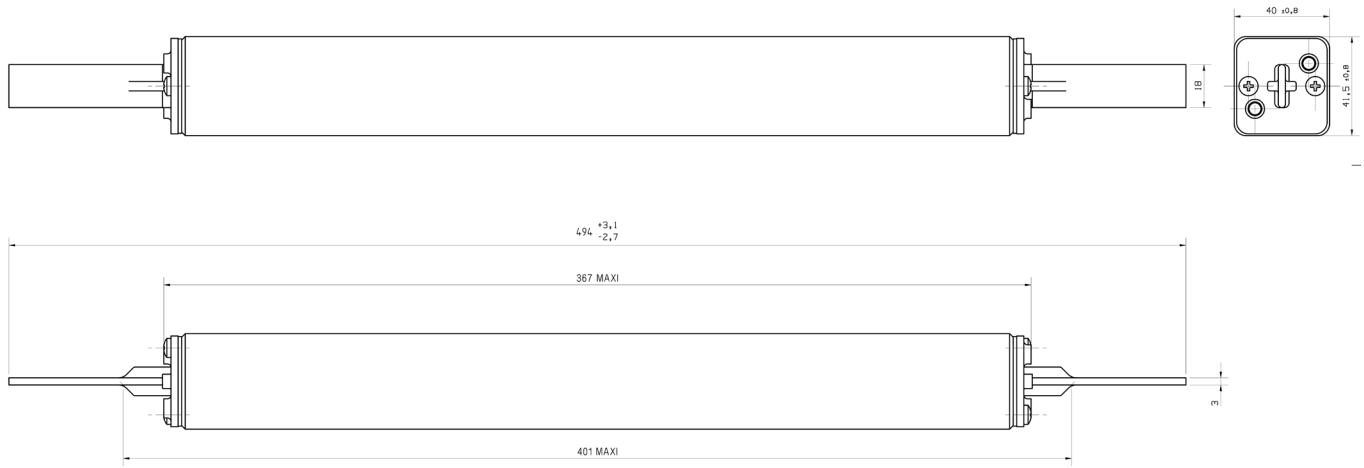
DIMENSIONS

Bracket size 600 gR 3500V to 4000V



Blade size 600 gR 3500 to 4000VDC



Dimensions in mm

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