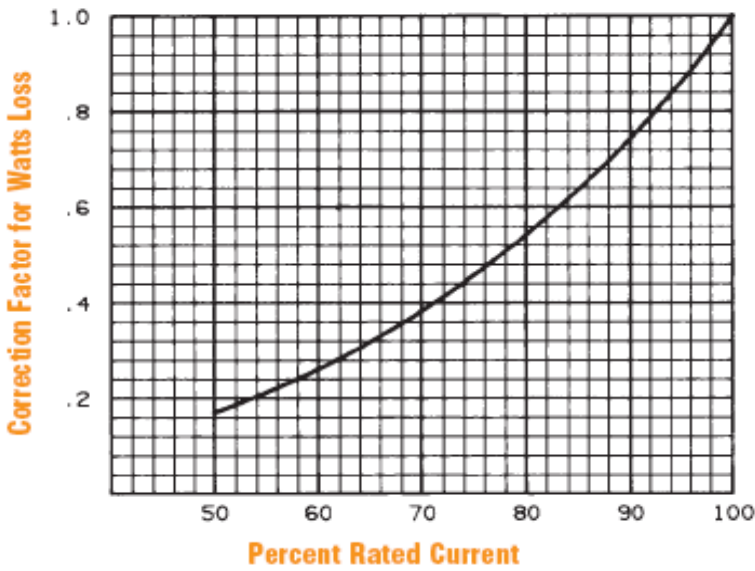


ELECTRICAL CHARACTERISTICS

Watts Loss vs. Percent Rated Current



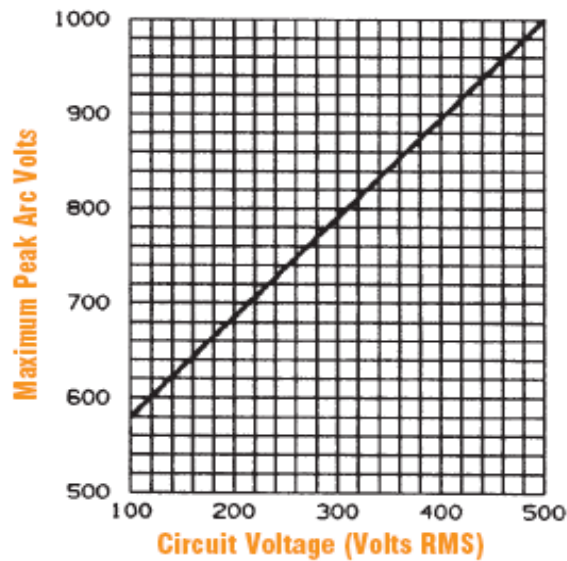
Watts Loss at Rated Current

| AMPERE RATING | WATTS LOSS(w) | AMPERE RATING | WATTS LOSS(w) |
|---------------|---------------|---------------|---------------|
| 35 | 6 | 250 | 41 |
| 40 | 7 | 300 | 49 |
| 50 | 8 | 350 | 57 |
| 60 | 10 | 400 | 65 |
| 70 | 12 | 450 | 69 |
| 80 | 14 | 500 | 77 |
| 90 | 15 | 600 | 92 |
| 100 | 17 | 700 | 110 |
| 125 | 21 | 800 | 130 |
| 150 | 25 | 900 | 140 |
| 175 | 29 | 1000 | 160 |
| 200 | 33 | 1200 | 175 |
| 225 | 37 | | |

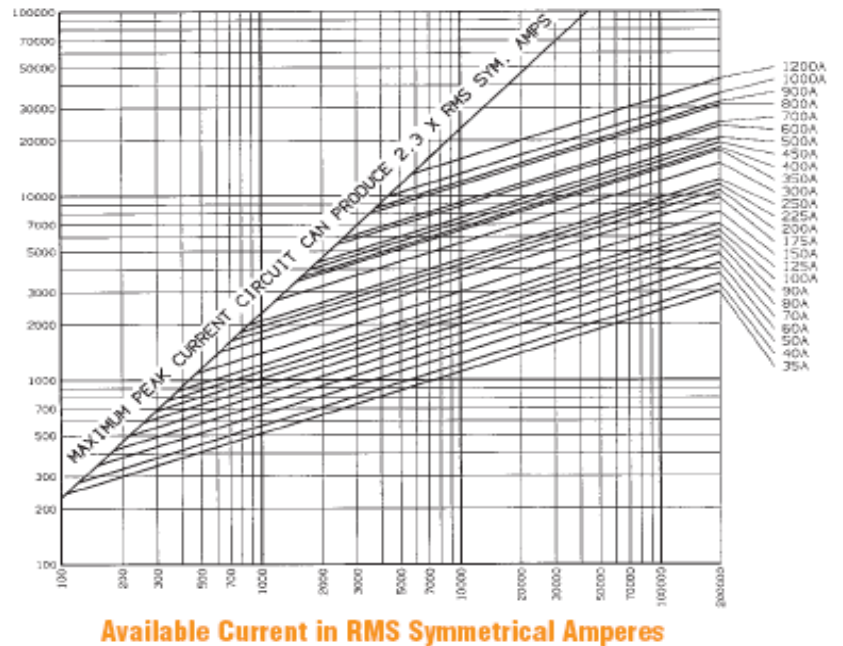
Correction factor example: At 80% rated current, watts loss equals .54 times watts loss at rated current.

Peak Let-Through Current Data – A50QS35 to 1200, 500 Volts AC

Maximum Arc Volts vs. System Voltage



Maximum Instantaneous Peak Let-Through Amperes



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ELECTRICAL CHARACTERISTICS

Pt Data – 500 Volts AC

| FUSE AMPERE RATING | MELTING P _t (A ² s x 10 ⁹) | I ² t DATA | |
|--------------------|--|--|---|
| | | MAX. CLEARING I ² t @ 500VAC | |
| | | 1 FUSE (Fig A) (A ² s x 10 ⁹) | 2 FUSES IN SERIES (A ² s x 10 ⁹) (Fig B) |
| 35 | .09 | .56 | .34 |
| 40 | .11 | .69 | .4 |
| 50 | .18 | 1.1 | .68 |
| 60 | .25 | 1.6 | .94 |
| 70 | .31 | 1.9 | 1.1 |
| 80 | .43 | 2.6 | 1.5 |
| 90 | .57 | 3.6 | 2.1 |
| 100 | .74 | 4.4 | 2.7 |
| 125 | .94 | 5.6 | 3.4 |
| 150 | 1.5 | 9 | 5.4 |
| 175 | 2.5 | 15 | 9 |
| 200 | 3.3 | 20 | 12 |
| 225 | 4.1 | 25 | 15 |
| 250 | 4.9 | 29 | 18 |
| 300 | 9.2 | 55 | 33 |
| 350 | 15 | 88 | 53 |
| 400 | 16 | 98 | 59 |
| 450 | 21 | 130 | 76 |
| 500 | 26 | 160 | 94 |
| 600 | 37 | 220 | 130 |
| 700 | 53 | 270 | 160 |
| 800 | 72 | 360 | 220 |
| 900 | 98 | 500 | 300 |
| 1000 | 112 | 560 | 330 |
| 1200 | 200 | 930 | 550 |

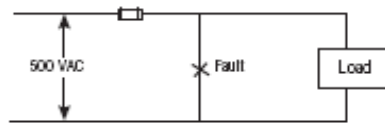


Fig. A

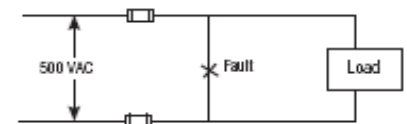
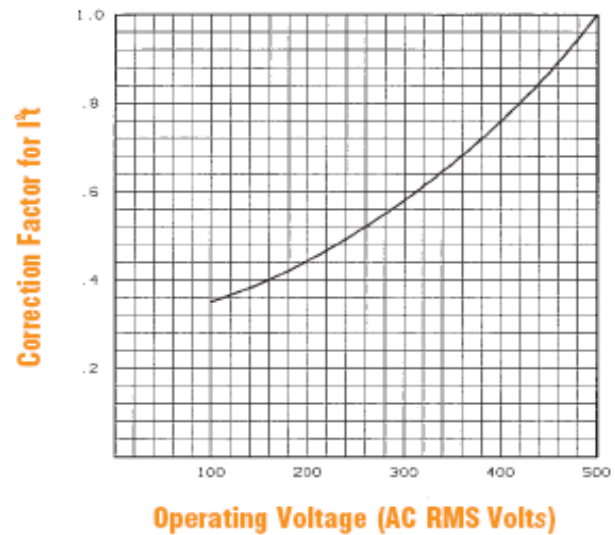


Fig. B

Clearing I²t vs. AC Operating Voltage

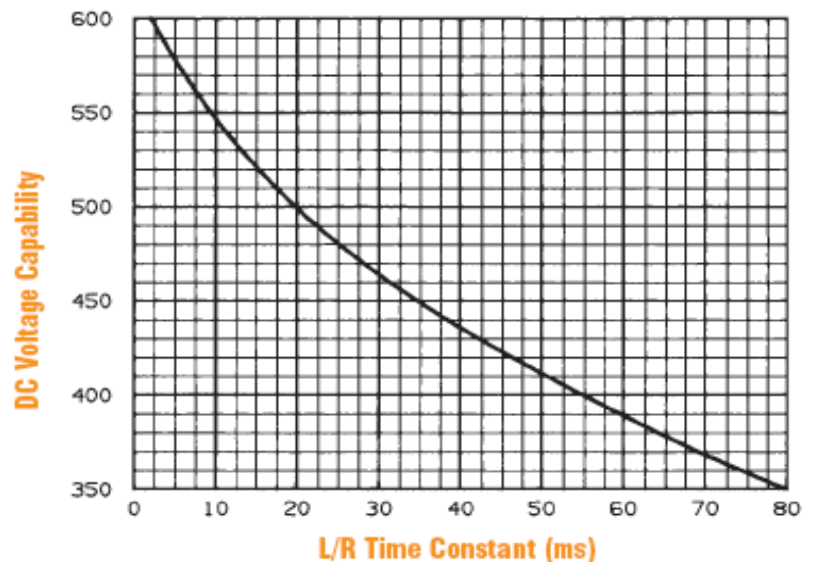


Clearing I²t at 500V DC, 100kA, L/R = 10 ms

| AMPERE RATING | CLEARING I ² t (A ² s x 10 ⁹) | AMPERE RATING | CLEARING I ² t (A ² s x 10 ⁹) |
|---------------|---|---------------|---|
| 35 | .48 | 250 | 25 |
| 40 | .58 | 300 | 47 |
| 50 | 1.0 | 350 | 75 |
| 60 | 1.3 | 400 | 83 |
| 70 | 1.6 | 450 | 110 |
| 80 | 2.2 | 500 | 130 |
| 90 | 3.0 | 600 | 190 |
| 100 | 3.8 | 700 | 220 |
| 125 | 4.8 | 800 | 260 |
| 150 | 7.7 | 900 | 350 |
| 175 | 13 | 1000 | 430 |
| 200 | 17 | 1200 | 660 |
| 225 | 21 | | |

DC Application: A500QS Fuses have been designed for both AC and DC operation. A500QS fuses (70-600) have UL Component Recognition at 500V DC and have been tested to circuit parameters as defined in Standard 198L.

DC Voltage Capability vs. Time Constant



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