

High Speed Fuses

Square Body US Style — 690V/700V (IEC): 40-2000A

690V/700V (IEC) 40-2000A

Specifications

Description: Square body US style high speed fuses.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 690Vac (IEC)
— 700Vac (UL)

Amps: — 40-200A

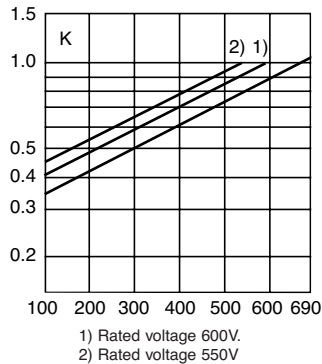
IR: — 200kA RMS Sym.

Agency Information: CE, Designed and tested to IEC 60269: Part 4, UL Recognized. Consult Cooper Bussmann for UL Recognition/ CSA Component Acceptance status.

Electrical Characteristics

Total Clearing I^2t

The total clearing I^2t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I^2t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g , (rms).

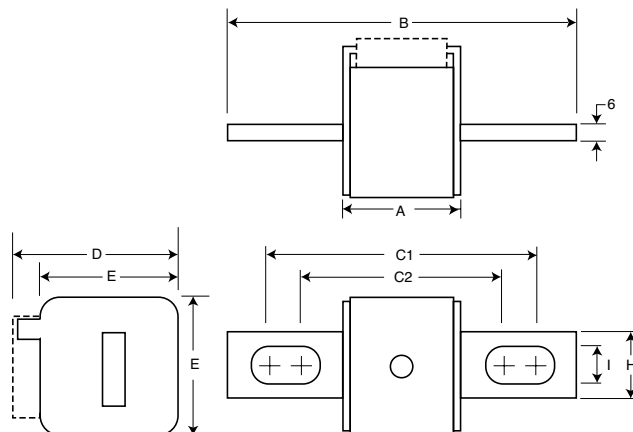


Dimensions (mm)

Type -FU/-, -FKE/-, FU/115-, -FKE/115

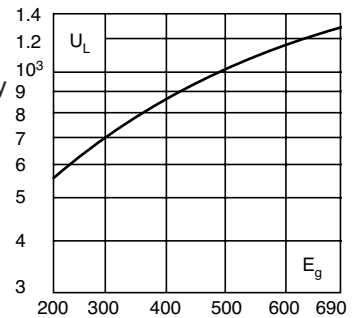
| Size | A | B | B** | C1 | C1** | C2 | C2** | D | E | H | I |
|------|----|-----|-----|-----|------|----|------|----|----|----|----|
| 1* | 50 | 110 | 148 | 85 | 123 | 72 | 110 | 59 | 45 | 20 | 10 |
| 1 | 50 | 136 | 157 | 104 | 126 | 78 | 100 | 69 | 53 | 25 | 14 |
| 2 | 50 | 135 | 159 | 105 | 125 | 78 | 99 | 77 | 61 | 25 | 14 |
| 3 | 51 | 135 | 155 | 106 | 125 | 77 | 97 | 92 | 76 | 36 | 16 |

**Valid for fuses type -FU/115 & -FKE/115.
1mm = 0.0394" / 1" = 25.4mm



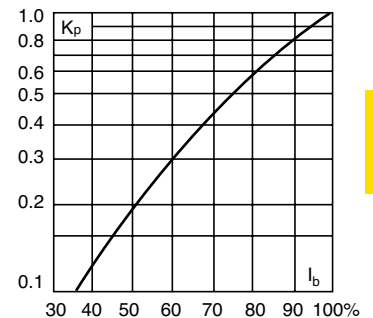
Arc Voltage

This curve gives the peak arc voltage, U_L , which may appear across the fuse during its operation as a function of the applied working voltage, E_g , (rms) at a power factor of 15%.



Power Losses

Watts loss at rated current is given in the electrical characteristics. The curve allows the calculation of the power losses at load currents lower than the rated current. The correction factor, K_p , is given as a function of the RMS load current, I_b , in % of the rated current.



Features and Benefits

- Excellent dc performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

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Catalog Numbers

| Catalog Numbers | | | | Size | Electrical Characteristics | | | |
|------------------------------|---|---------------------------------|--|-------|------------------------------|---------------------------------------|---------------------|---------------|
| -FU/ Without Indicator | -FKE/ Type K Indicator for Micro | -FU/115 Without Indicator | -FKE/115 Type K Indicator for Micro | | Rated Current RMS-Amps | I ² t (A ² Sec) | | Watts Loss |
| | | | | | | Pre-arc | Clearing at 660V | |
| 170M3608 | 170M3658 | 170M3708 | 170M3758 | 1* | 40 | 40 | 270 | 9 |
| 170M3609 | 170M3659 | 170M3709 | 170M3759 | | 50 | 77 | 515 | 11 |
| 170M3610 | 170M3660 | 170M3710 | 170M3760 | | 63 | 115 | 770 | 14 |
| 170M3611 | 170M3661 | 170M3711 | 170M3761 | | 80 | 185 | 1250 | 18 |
| 170M3612 | 170M3662 | 170M3712 | 170M3762 | | 100 | 360 | 2450 | 21 |
| 170M3613 | 170M3663 | 170M3713 | 170M3763 | | 125 | 550 | 3700 | 26 |
| 170M3614 | 170M3664 | 170M3714 | 170M3764 | | 160 | 1100 | 7500 | 30 |
| 170M3615 | 170M3665 | 170M3715 | 170M3765 | | 200 | 2200 | 15000 | 35 |
| 170M3616 | 170M3666 | 170M3716 | 170M3766 | | 250 | 4200 | 28500 | 40 |
| 170M3617 | 170M3667 | 170M3717 | 170M3767 | | 315 | 7000 | 46500 | 50 |
| 170M3618 | 170M3668 | 170M3718 | 170M3768 | | 350 | 10000 | 68500 | 55 |
| 170M3619 | 170M3669 | 170M3719 | 170M3769 | | 400 | 15000 | 105000 | 60 |
| 170M3620 | 170M3670 | 170M3720 | 170M3770 | | 450 | 21000 | 140000 | 65 |
| 170M3621 | 170M3671 | 170M3721 | 170M3771 | | 500 | 27000 | 180000 | 70 |
| 170M3622 | 170M3672 | 170M3722 | 170M3772 | | 550 | 34000 | 230000 | 75 |
| 170M3623 | 170M3673 | 170M3723 | 170M3773 | | 630 | 48500 | 325000 | 80 |
| 170M4608 | 170M4658 | 170M4708 | 170M4758 | | 1 | 200 | 1650 | 11500 |
| 170M4609 | 170M4659 | 170M4709 | 170M4759 | 250 | | 3100 | 21000 | 55 |
| 170M4610 | 170M4660 | 170M4710 | 170M4760 | 315 | | 6200 | 42000 | 58 |
| 170M4611 | 170M4661 | 170M4711 | 170M4761 | 350 | | 8500 | 59000 | 60 |
| 170M4612 | 170M4662 | 170M4712 | 170M4762 | 400 | | 13500 | 91500 | 65 |
| 170M4613 | 170M4663 | 170M4713 | 170M4763 | 450 | | 17000 | 120000 | 70 |
| 170M4614 | 170M4664 | 170M4714 | 170M4764 | 500 | | 25000 | 170000 | 72 |
| 170M4615 | 170M4665 | 170M4715 | 170M4765 | 550 | | 34000 | 230000 | 75 |
| 170M4616 | 170M4666 | 170M4716 | 170M4766 | 630 | | 52000 | 350000 | 80 |
| 170M4617 | 170M4667 | 170M4717 | 170M4767 | 700 | | 69500 | 465000 | 85 |
| 170M4618 | 170M4668 | 170M4718 | 170M4768 | 800 | | 105000 | 725000 | 95 |
| 170M4619 | 170M4669 | 170M4719 | 170M4769 | ±900 | | 155000 | ±850000 | 100 |
| 170M5608 | 170M5658 | 170M5708 | 170M5758 | 2 | 400 | 11000 | 74000 | 65 |
| 170M5609 | 170M5659 | 170M5709 | 170M5759 | | 450 | 15500 | 105000 | 70 |
| 170M5610 | 170M5660 | 170M5710 | 170M5760 | | 500 | 21500 | 145000 | 75 |
| 170M5611 | 170M5661 | 170M5711 | 170M5761 | | 550 | 28000 | 190000 | 80 |
| 170M5612 | 170M5662 | 170M5712 | 170M5762 | | 630 | 41000 | 275000 | 90 |
| 170M5613 | 170M5663 | 170M5713 | 170M5763 | | 700 | 60500 | 405000 | 95 |
| 170M5614 | 170M5664 | 170M5714 | 170M5764 | | 800 | 86000 | 575000 | 105 |
| 170M5615 | 170M5665 | 170M5715 | 170M5765 | | 900 | 125000 | 840000 | 110 |
| 170M5616 | 170M5666 | 170M5716 | 170M5766 | | 1000 | 180000 | 1250000 | 115 |
| 170M5617 | 170M5667 | 170M5717 | 170M5767 | | 1100 | 245000 | 1600000 | 120 |
| 170M5618 | 170M5668 | 170M5718 | 170M5768 | | 1250 | 365000 | 2400000 | 130 |
| 170M6608 | 170M6658 | 170M6708 | 170M6758 | | 3 | 500 | 14000 | 95000 |
| 170M6609 | 170M6659 | 170M6709 | 170M6759 | 550 | | 19500 | 135000 | 100 |
| 170M6610 | 170M6660 | 170M6710 | 170M6760 | 630 | | 31000 | 210000 | 105 |
| 170M6611 | 170M6661 | 170M6711 | 170M6761 | 700 | | 44500 | 300000 | 110 |
| 170M6612 | 170M6662 | 170M6712 | 170M6762 | 800 | | 69500 | 465000 | 115 |
| 170M6613 | 170M6663 | 170M6713 | 170M6763 | 900 | | 100000 | 670000 | 120 |
| 170M6614 | 170M6664 | 170M6714 | 170M6764 | 1000 | | 140000 | 945000 | 125 |
| 170M6615 | 170M6665 | 170M6715 | 170M6765 | 1100 | | 190000 | 1300000 | 130 |
| 170M6616 | 170M6666 | 170M6716 | 170M6766 | 1250 | | 290000 | 1950000 | 140 |
| 170M6617 | 170M6667 | 170M6717 | 170M6767 | 1400 | | 370000 | 2450000 | 155 |
| 170M6618 | 170M6668 | 170M6718 | 170M6768 | 1500 | | 460000 | 3100000 | 160 |
| 170M6619 | 170M6669 | 170M6719 | 170M6769 | 1600 | | 580000 | 3900000 | 160 |
| 170M6620 | 170M6670 | 170M6720 | 170M6770 | ±1800 | | 880000 | ±5250000 | 165 |
| 170M6621 | 170M6671 | 170M6721 | 170M6771 | ±2000 | | 1150000 | ±6350000 | 175 |

†Rated voltage (IEC) 600V.

‡Rated voltage (IEC) 550V.

•Watts loss provided at rated current.

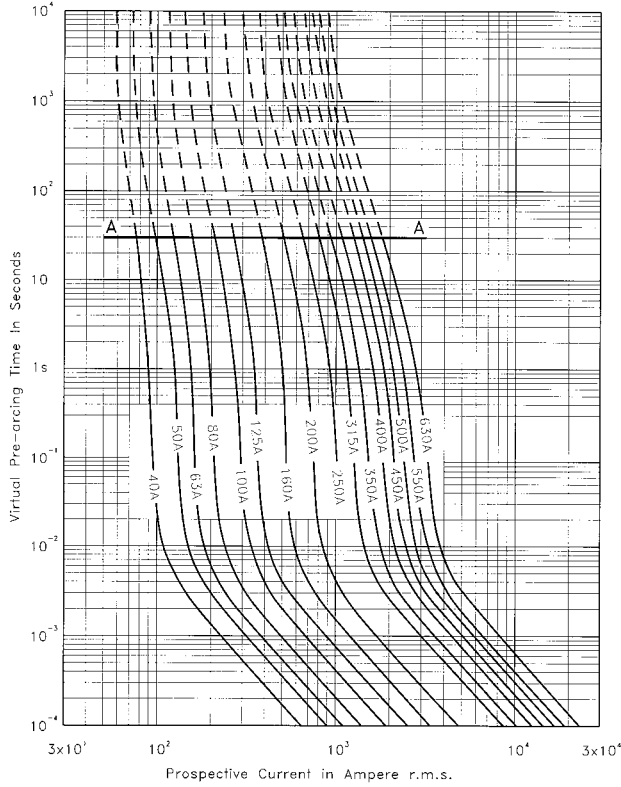
•Microswitch indicator ordered separately. See accessories on pages 179-180.

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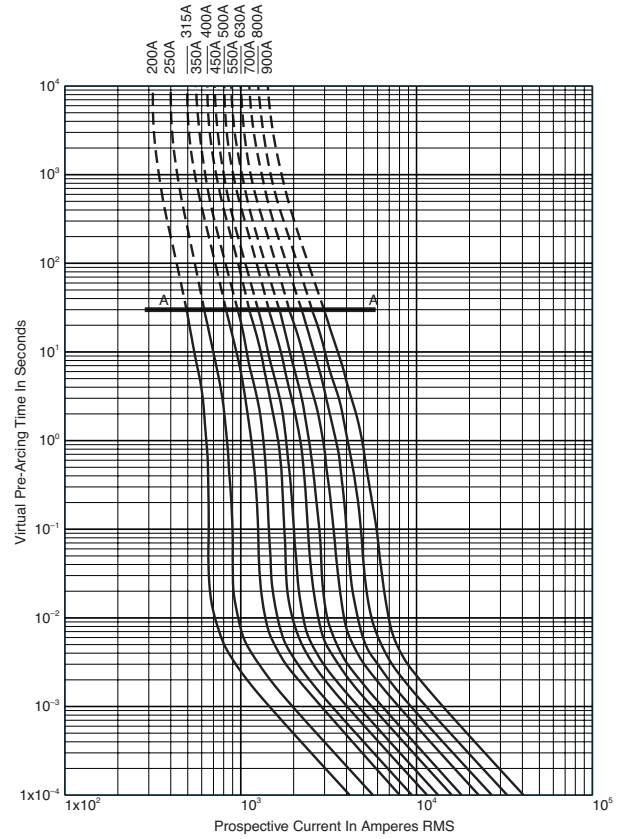
Size 1* — 40-630A: 690V

Time-Current Curve



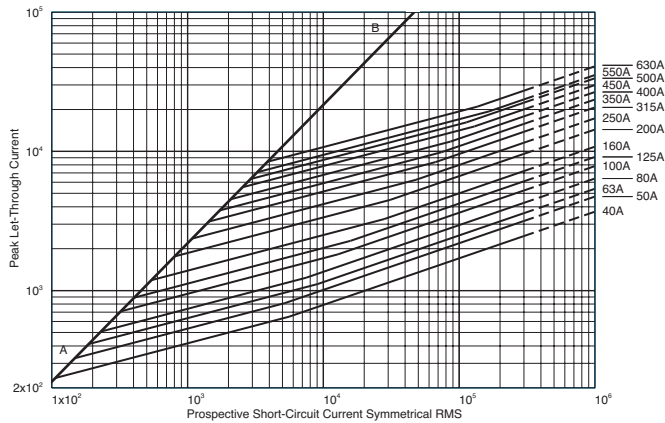
Size 1 — 200-900A: 690V

Time-Current Curve

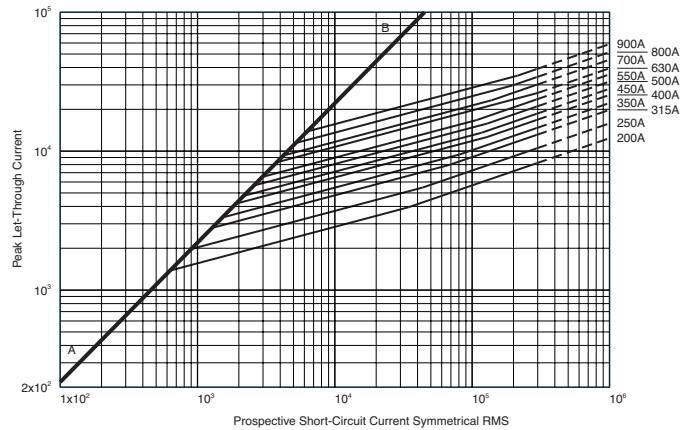


High Speed
Fuses

Peak Let-Through Curve



Peak Let-Through Curve



Data Sheet: 17056314

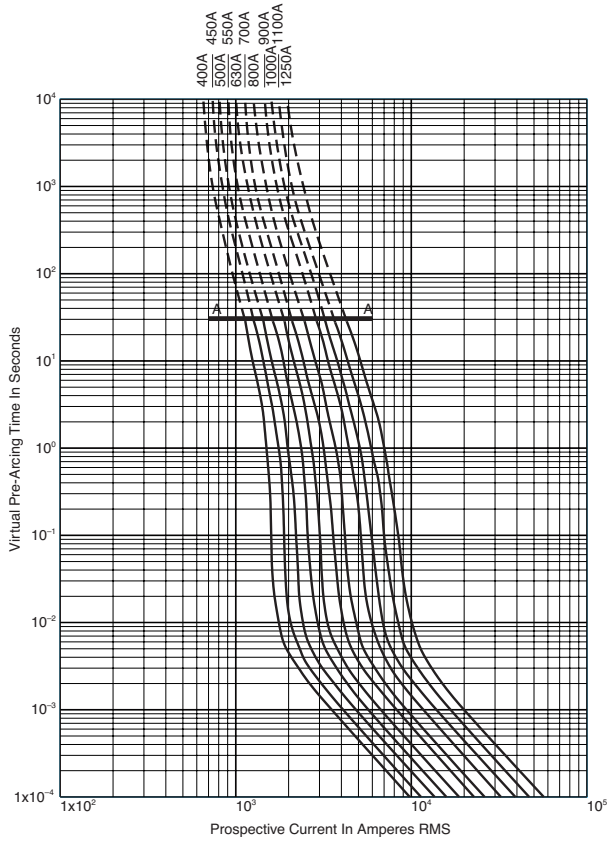
Data Sheet: 17056316

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Square body US style — 690V/700V (IEC): 40-2000A

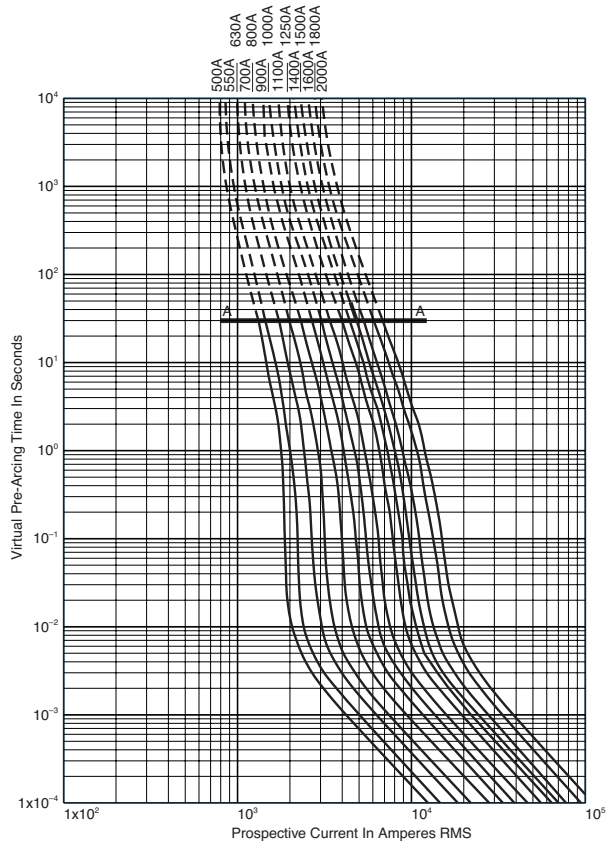
Size 2 — 400-1250A: 690V

Time-Current Curve

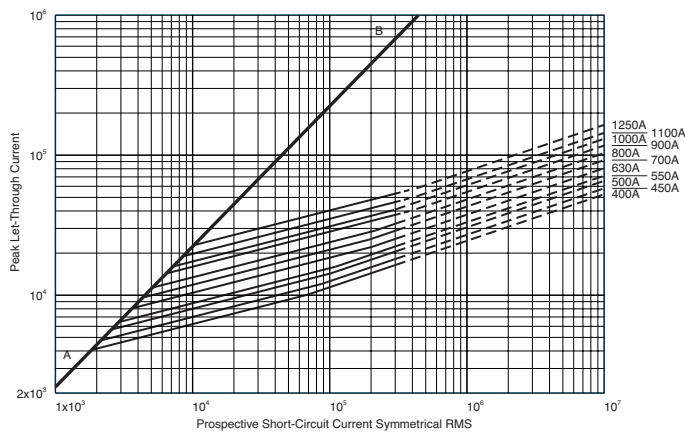


Size 3 — 500-2000A: 690V

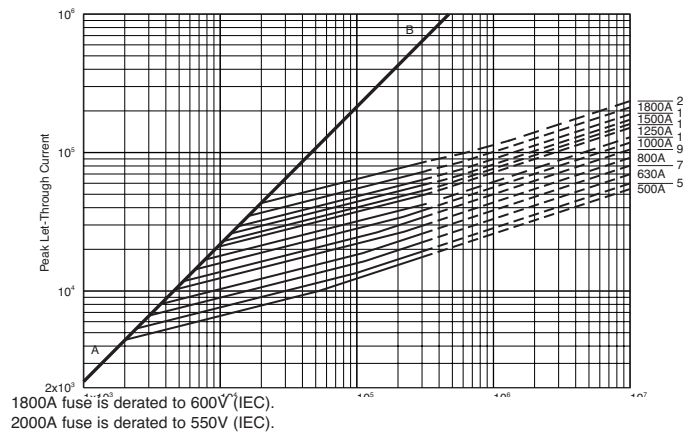
Time-Current Curve



Peak Let-Through Curve



Peak Let-Through Curve



1800A fuse is derated to 600V (IEC).
2000A fuse is derated to 550V (IEC).

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