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Square Body DIN 43 653 — 690V/700V (IEC/UL): 40-2000A

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

Specifications

Description: Square body DIN 43 653 stud-mount high speed fuses.

Dimensions: See dimensions illustration.

Ratings:

Volts: — 690Vac (IEC)
— 700Vac (UL)

Amps: — 40-2000A

IR: — 200kA RMS Sym.

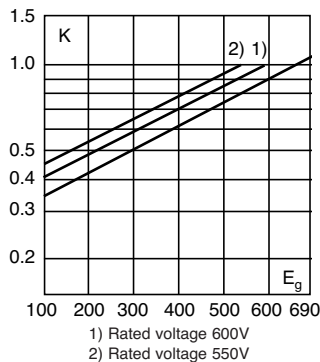
Agency Information: CE, Designed and tested to IEC 60269: Part 4, UL Recognized. Consult Cooper Bussmann for UL Recognition/CSA Component Acceptance status.



Electrical Characteristics

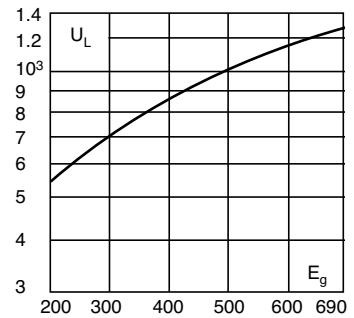
Total Clearing I²t

The total clearing I²t at rated voltage and at power factor of 15% are given in the electrical characteristics. For other voltages, the clearing I²t is found by multiplying by correction factor, K, given as a function of applied working voltage, E_g, (rms).



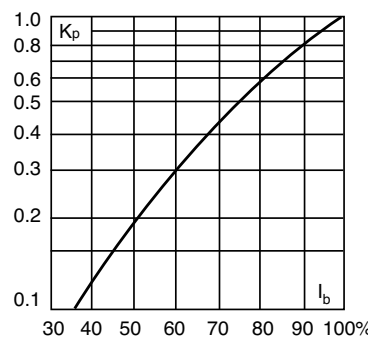
Arc Voltage

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 (I²t)
- Low watts loss
- Superior cycling capability

Typical Applications

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

For Other Voltage Ratings in This Body Style

- See pages 146 (1000V) and 160 (1250V/1300V)

Dimensions (mm)

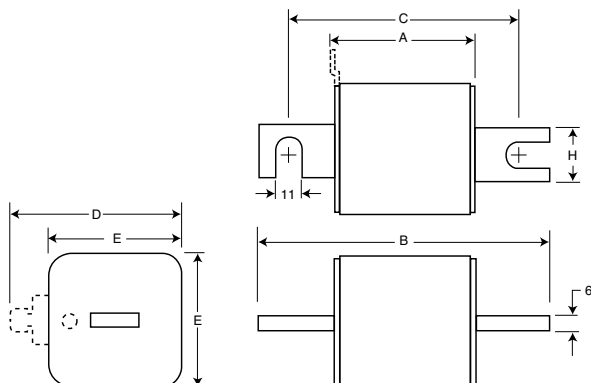
| Size | A | B | B** | C | C** | D*** | E | H |
|------|----|-----|-----|----|-----|------|----|----|
| 1* | 50 | 104 | 134 | 78 | 108 | 58 | 45 | 22 |
| 1 | 50 | 108 | 138 | 78 | 108 | 66 | 53 | 25 |
| 2 | 50 | 108 | 138 | 78 | 108 | 75 | 61 | 25 |
| 3 | 51 | 109 | 139 | 78 | 108 | 90 | 76 | 30 |

**Valid for fuses type -/110, -TN/110.

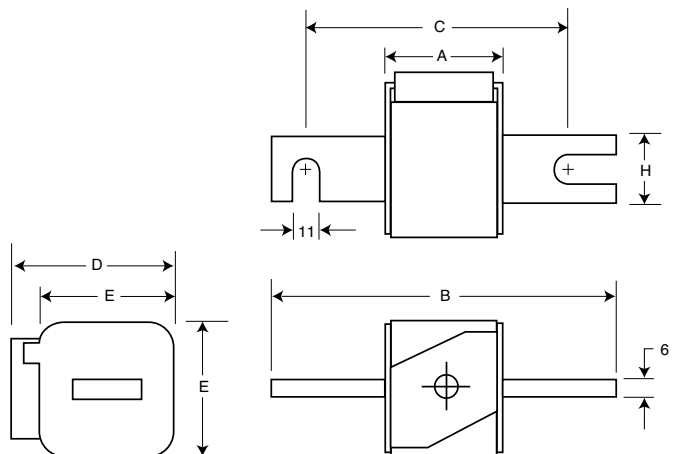
***Microswitch.

1mm = 0.0394" / 1" = 25.4mm

Type -/80, -TN/80, -/110, -TN/110.



Type -KN/80, -KN/110



Square Body DIN 43 653 — 690V/700V (IEC/UL): 40-2000A

Catalog Numbers

| Catalog Numbers | | | | | | Size | Electrical Characteristics | | | |
|--------------------------------------|--|--|------------------------------|---|--|-------|----------------------------|-------------------------|---------|------------------|
| -/80 Visual Watts Indicator | -TN/80 Type T Indicator for Micro | -KN/80 Type K Indicator for Micro | -/110 Visual for Micro | -TN/110 Type T Indicator for Micro | -KN/110 Type K Indicator -KN/80 | | Rated RMS-Amps | Pt (A ² Sec) | | Clearing Loss |
| | | | | | | | | Current Pre-arc | at 660V | |
| 170M3008 | 170M3058 | 170M3108 | 170M3158 | 170M3208 | 170M3258 | 40 | 40 | 270 | 9 | |
| 170M3009 | 170M3059 | 170M3109 | 170M3159 | 170M3209 | 170M3259 | 50 | 77 | 515 | 11 | |
| 170M3010 | 170M3060 | 170M3110 | 170M3160 | 170M3210 | 170M3260 | 63 | 115 | 770 | 14 | |
| 170M3011 | 170M3061 | 170M3111 | 170M3161 | 170M3211 | 170M3261 | 80 | 185 | 1250 | 18 | |
| 170M3012 | 170M3062 | 170M3112 | 170M3162 | 170M3212 | 170M3262 | 100 | 360 | 2450 | 21 | |
| 170M3013 | 170M3063 | 170M3113 | 170M3163 | 170M3213 | 170M3263 | 125 | 550 | 3700 | 26 | |
| 170M3014 | 170M3064 | 170M3114 | 170M3164 | 170M3214 | 170M3264 | 160 | 1100 | 7500 | 30 | |
| 170M3015 | 170M3065 | 170M3115 | 170M3165 | 170M3215 | 170M3265 | 200 | 2200 | 15000 | 35 | |
| 170M3016 | 170M3066 | 170M3116 | 170M3166 | 170M3216 | 170M3266 | 250 | 4200 | 28500 | 40 | |
| 170M3017 | 170M3067 | 170M3117 | 170M3167 | 170M3217 | 170M3267 | 315 | 7000 | 46500 | 50 | |
| 170M3018 | 170M3068 | 170M3118 | 170M3168 | 170M3218 | 170M3268 | 350 | 10000 | 68500 | 55 | |
| 170M3019 | 170M3069 | 170M3119 | 170M3169 | 170M3219 | 170M3269 | 400 | 15000 | 105000 | 60 | |
| 170M3020 | 170M3070 | 170M3120 | 170M3170 | 170M3220 | 170M3270 | 450 | 21000 | 140000 | 65 | |
| 170M3021 | 170M3071 | 170M3121 | 170M3171 | 170M3221 | 170M3271 | 500 | 27000 | 180000 | 70 | |
| 170M3022 | 170M3072 | 170M3122 | 170M3172 | 170M3222 | 170M3272 | 550 | 34000 | 230000 | 75 | |
| 170M3023 | 170M3073 | 170M3123 | 170M3173 | 170M3223 | 170M3273 | 630 | 48500 | 325000 | 80 | |
| 170M4008 | 170M4058 | 170M4108 | 170M4158 | 170M4208 | 170M4258 | 200 | 1650 | 11500 | 45 | |
| 170M4009 | 170M4059 | 170M4109 | 170M4159 | 170M4209 | 170M4259 | 250 | 3100 | 21000 | 55 | |
| 170M4010 | 170M4060 | 170M4110 | 170M4160 | 170M4210 | 170M4260 | 315 | 6200 | 42000 | 58 | |
| 170M4011 | 170M4061 | 170M4111 | 170M4161 | 170M4211 | 170M4261 | 350 | 8500 | 59000 | 60 | |
| 170M4012 | 170M4062 | 170M4112 | 170M4162 | 170M4212 | 170M4262 | 400 | 13500 | 91500 | 65 | |
| 170M4013 | 170M4063 | 170M4113 | 170M4163 | 170M4213 | 170M4263 | 450 | 17000 | 120000 | 70 | |
| 170M4014 | 170M4064 | 170M4114 | 170M4164 | 170M4214 | 170M4264 | 500 | 25000 | 170000 | 72 | |
| 170M4015 | 170M4065 | 170M4115 | 170M4165 | 170M4215 | 170M4265 | 550 | 34000 | 230000 | 75 | |
| 170M4016 | 170M4066 | 170M4116 | 170M4166 | 170M4216 | 170M4266 | 630 | 52000 | 350000 | 80 | |
| 170M4017 | 170M4067 | 170M4117 | 170M4167 | 170M4217 | 170M4267 | 700 | 69500 | 465000 | 85 | |
| 170M4018 | 170M4068 | 170M4118 | 170M4168 | 170M4218 | 170M4268 | 800 | 105000 | 725000 | 95 | |
| 170M4019 | 170M4069 | 170M4119 | 170M4169 | 170M4219 | 170M4269 | ±900 | 155000 | ±850000 | 100 | |
| 170M5008 | 170M5058 | 170M5108 | 170M5158 | 170M5208 | 170M5258 | 400 | 11000 | 74000 | 65 | |
| 170M5009 | 170M5059 | 170M5109 | 170M5159 | 170M5209 | 170M5259 | 450 | 15500 | 105000 | 70 | |
| 170M5010 | 170M5060 | 170M5110 | 170M5160 | 170M5210 | 170M5260 | 500 | 21500 | 145000 | 75 | |
| 170M5011 | 170M5061 | 170M5111 | 170M5161 | 170M5211 | 170M5261 | 550 | 28000 | 190000 | 80 | |
| 170M5012 | 170M5062 | 170M5112 | 170M5162 | 170M5212 | 170M5262 | 630 | 41000 | 275000 | 90 | |
| 170M5013 | 170M5063 | 170M5113 | 170M5163 | 170M5213 | 170M5263 | 700 | 60500 | 405000 | 95 | |
| 170M5014 | 170M5064 | 170M5114 | 170M5164 | 170M5214 | 170M5264 | 800 | 86000 | 575000 | 105 | |
| 170M5015 | 170M5065 | 170M5115 | 170M5165 | 170M5215 | 170M5265 | 900 | 125000 | 840000 | 110 | |
| 170M5016 | 170M5066 | 170M5116 | 170M5166 | 170M5216 | 170M5266 | 1000 | 180000 | 1250000 | 115 | |
| 170M5017 | 170M5067 | 170M5117 | 170M5167 | 170M5217 | 170M5267 | 1100 | 245000 | 1600000 | 120 | |
| 170M5018 | 170M5068 | 170M5118 | 170M5168 | 170M5218 | 170M5268 | 1250 | 365000 | 2400000 | 130 | |
| 170M6008 | 170M6058 | 170M6108 | 170M6158 | 170M6208 | 170M6258 | 500 | 14000 | 95000 | 95 | |
| 170M6009 | 170M6059 | 170M6109 | 170M6159 | 170M6209 | 170M6259 | 550 | 19500 | 135000 | 100 | |
| 170M6010 | 170M6060 | 170M6110 | 170M6160 | 170M6210 | 170M6260 | 630 | 31000 | 210000 | 105 | |
| 170M6011 | 170M6061 | 170M6111 | 170M6161 | 170M6211 | 170M6261 | 700 | 44500 | 300000 | 110 | |
| 170M6012 | 170M6062 | 170M6112 | 170M6162 | 170M6212 | 170M6262 | 800 | 69500 | 465000 | 115 | |
| 170M6013 | 170M6063 | 170M6113 | 170M6163 | 170M6213 | 170M6263 | 900 | 100000 | 670000 | 120 | |
| 170M6014 | 170M6064 | 170M6114 | 170M6164 | 170M6214 | 170M6264 | 1000 | 140000 | 945000 | 125 | |
| 170M6015 | 170M6065 | 170M6115 | 170M6165 | 170M6215 | 170M6265 | 1100 | 190000 | 1300000 | 130 | |
| 170M6016 | 170M6066 | 170M6116 | 170M6166 | 170M6216 | 170M6266 | 1250 | 290000 | 1950000 | 140 | |
| 170M6017 | 170M6067 | 170M6117 | 170M6167 | 170M6217 | 170M6267 | 1400 | 370000 | 2450000 | 155 | |
| 170M6018 | 170M6068 | 170M6118 | 170M6168 | 170M6218 | 170M6268 | 1500 | 460000 | 3100000 | 160 | |
| 170M6019 | 170M6069 | 170M6119 | 170M6169 | 170M6219 | 170M6269 | 1600 | 580000 | 3900000 | 160 | |
| 170M6020 | 170M6070 | 170M6120 | 170M6170 | 170M6220 | 170M6270 | ±1800 | 880000 | ±5250000 | 165 | |
| 170M6021 | 170M6071 | 170M6121 | 170M6171 | 170M6221 | 170M6271 | ±2000 | 1150000 | ±6350000 | 175 | |

High Speed Fuses

†Rated voltage (IEC) 600V.
‡Rated voltage (IEC) 550V.
• Watts loss provided at rated current.
• Microswitch indicator ordered separately. See accessories on pages 185-186.
• For fuse curves see pages 130 and 131.