# Central Bolted fuse-links gM 415VAC/240VDC

**LOW VOLTAGE IEC FUSES**

BS FUSE-LINKS



## FEATURES & BENEFITS

- Excellent current limitation for all overloads

## APPLICATIONS

- These fuses are designed for : “General purpose use” motor protection (gM type)

## STANDARDS

- EN 60269-2
- BS88-2

The fuse complies with standard EN 60269-2 and standard BS 88 part 2. These fuses are designed for : “General purpose use” motor protection (gM type). This fuse range insures an excellent current limitation for all overloads on a large range of applications. Their size cannot allow exchange by other fuses of higher rating in their range. They are screwed into fuseholders or bolted directly onto busbars, or in fuse interrupters disconnectors.

## TECHNICAL DATA OVERVIEW

| | |
|---|---|
| Current rating In M Ich | 63M80 to 315M400 A |
| Rated voltage AC (IEC) | 415 V |
| Rated voltage DC (IEC) | 240 V |
| Breaking capacity AC | 80 kA |
| Breaking capacity DC | 40 kA |
| Speed/Characteristic | gM |
| Body Material | Ceramic |
| BS type | BTC, BTSDC, BTF, BTKF |



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# Central Bolted fuse-links gM 415VAC/240VDC

## PRODUCT RANGE



BTC42V100M200

### Type B1C 415VAC/240VDC gM BTC 2 holes

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Current rating In M Ich | Pre-arcing $I^2t$ | Clearing $I^2t$ at Rated Voltage | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| BTC42V100M125 | Q226311 | 415 V | 240 V | 100M125 A | 28000 $A^2s$ | 78400 $A^2s$ | 80 kA | 40 kA | 9 W | 0.12 kg |
| BTC42V100M160 | R226312 | 415 V | 240 V | 100M160 A | 60000 $A^2s$ | 168000 $A^2s$ | 80 kA | 40 kA | 8.8 W | 0.12 kg |
| BTC42V100M200 | S226313 | 415 V | 240 V | 100M200 A | 105000 $A^2s$ | 293000 $A^2s$ | 80 kA | 40 kA | 8.1 W | 0.24 kg |

### Type B1C 415VAC/240VDC gM BTSDC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Current rating In M Ich | Pre-arcing $I^2t$ | Clearing $I^2t$ at Rated Voltage | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| BTSDC42V100M125 | M1019210 | 415 V | 240 V | 100M125 A | 16000 $A^2s$ | 70000 $A^2s$ | 80 kA | 40 kA | 9.2 W | 86 g |
| BTSDC42V63M100 | L1019209 | 415 V | 240 V | 63M100 A | 14000 $A^2s$ | 65000 $A^2s$ | 80 kA | 40 kA | 4.7 W | 86 g |
| BTSDC42V63M80 | K1019208 | 415 V | 240 V | 63M80 A | 8500 $A^2s$ | 38250 $A^2s$ | 80 kA | 40 kA | 5.1 W | 86 g |
| BTSDC42V80M100 | Y1054364 [1] | 415 V | 240 V | 80M100 A | 14000 $A^2s$ | 65000 $A^2s$ | 80 kA | 40 kA | 6 W | 86 g |

[1] Product not compliant with ASTA 20 CERTIF.



BTF42V200M315

### Type B2 415VAC/240VDC gM BTF 2 hole

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Current rating In M Ich | Pre-arcing $I^2t$ | Clearing $I^2t$ at Rated Voltage | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| BTF42V200M250 | X226317 | 415 V | 240 V | 200M250 A | 190000 $A^2s$ | 532000 $A^2s$ | 80 kA | 40 kA | 19.2 W | 0.29 kg |
| BTF42V200M315 | Y226318 | 415 V | 240 V | 200M315 A | 270000 $A^2s$ | 7560000 $A^2s$ | 80 kA | 40 kA | 19.7 W | 0.29 kg |

### Type B3 415VAC/240VDC gM BTFK 2 hole

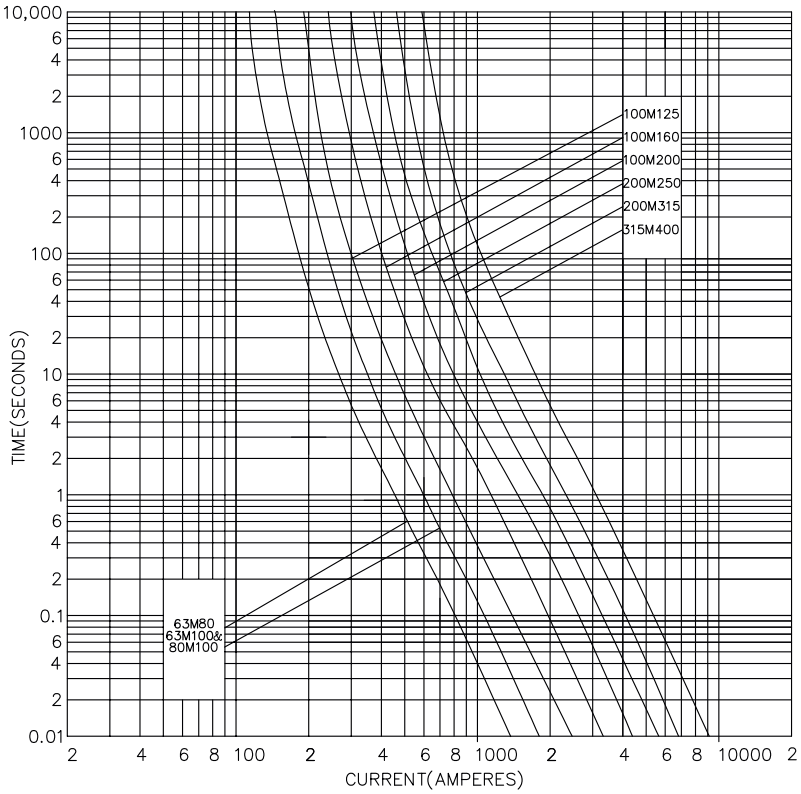
| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage DC (IEC) | Current rating In M Ich | Pre-arcing $I^2t$ | Clearing $I^2t$ at Rated Voltage | Rated breaking capacity AC | Rated breaking capacity DC | Power dissipation at $I_n$ | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| BTKF42V315M400 | B226321 | 415 V | 240 V | 315M400 A | 505000 $A^2s$ | 1414000 $A^2s$ | 80 kA | 40 kA | 30 W | 0.62 kg |



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## TIME CURRENT CHARACTERISTIC CURVES

### gM curves - 63M80 to 315M400 A - 415VAC / 240VDC



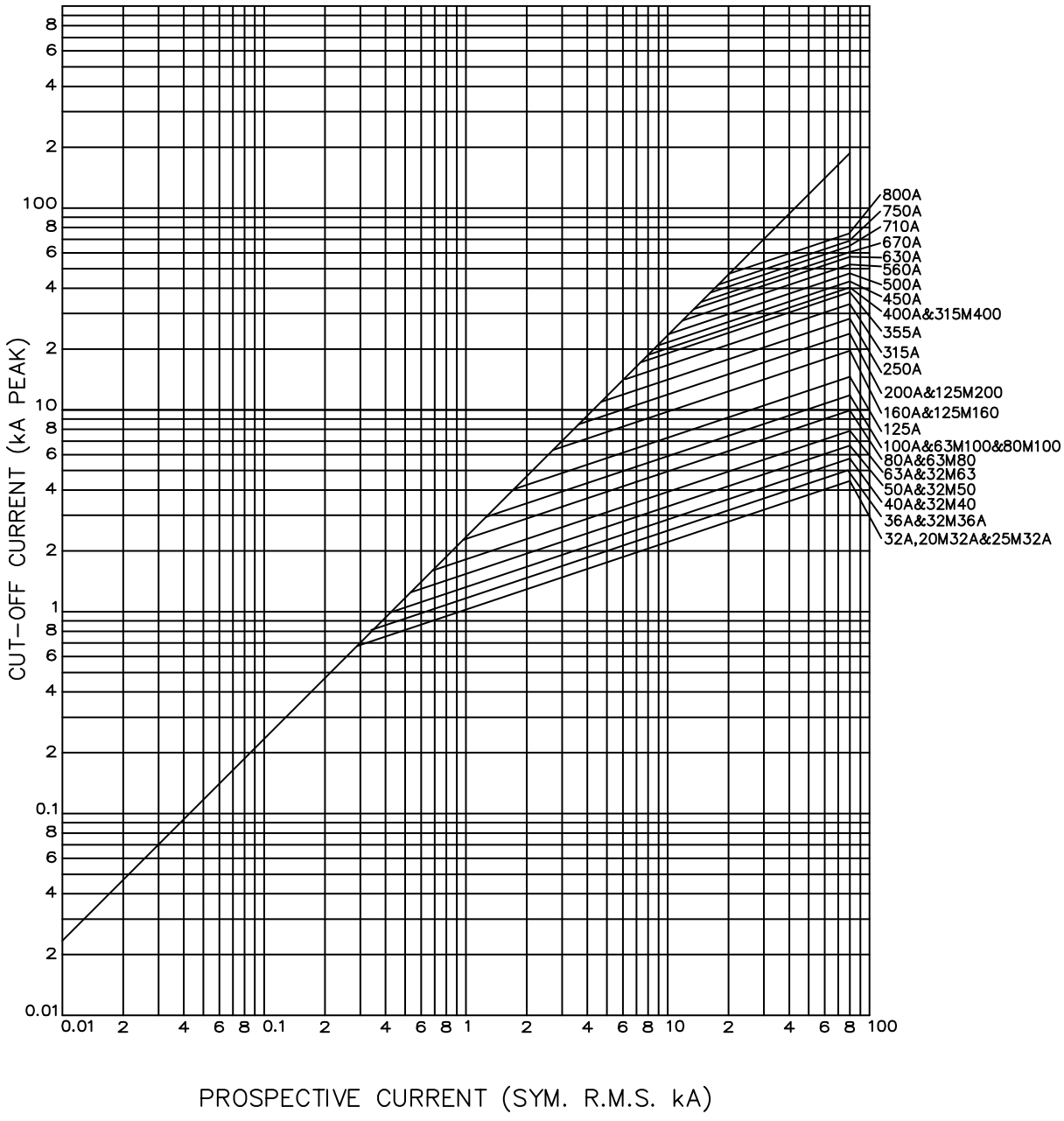





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## CUT-OFF CURRENT CHARACTERISTIC

**B Type - 415VAC**





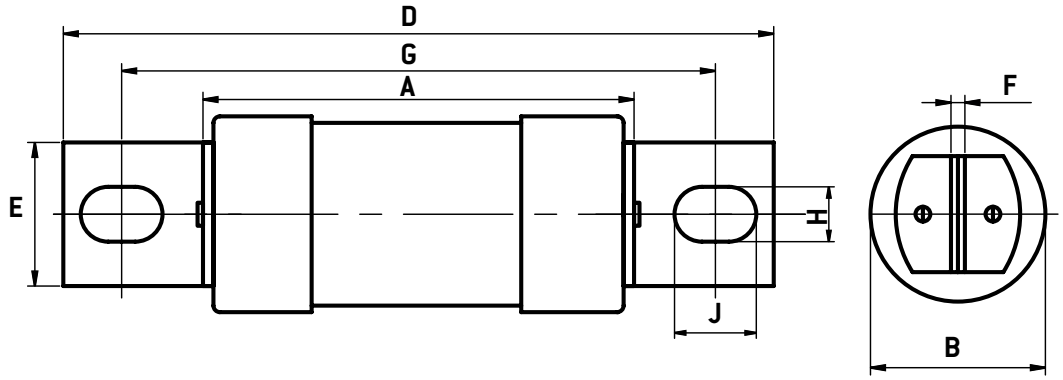



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## DIMENSIONS

### B1C BTSDC / B1C BTC / B1C BTF / B2 BTF / B3 BTKF

Dimensions in mm




Dimensions in mm

| Fig. | BS REF | Fuse Type | Current rating (A) | A MAX | B MAX | D MAX | E MAX | F NOM | G NOM | H NOM | J NOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B1C | BTC | 100M125, 100M160 | 57 | 26.9 | 137 | 19.5 | 3.2 | 111 | 8.7 | 14 |
| 1 | B1C | BTC/BTF | 100M200 | 47 | 31 | 136 | 19 | 3,2 | 111 | 9 | 12.5 |
| 1 | B1C | BTSDC | 63M80, 63M100, 80M100, 100M125 | 58.5 | 21 | 137 | 14.3 | 3.2 | 111 | 8.7 | 11.1 |
| 1 | B2 | BTF | 200M250, 200M315 | 73 | 41.9 | 138 | 19.5 | 3.2 | 111 | 8.7 | 14 |
| 1 | B3 | BTKF | 315M400 | 75 | 59.1 | 138 | 26 | 4.8 | 111 | 8.7 | 14 |





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