

# Red Spot offset bolted tags fuse links



## Product description

Eaton's Bussmann® series Red Spot offset bolted tags BS fuse links (in sizes A1 to A4) are specifically designed for the protection of general industrial applications, e.g. power distribution, cable protection, motor protection.

## Features

- Good peak and let-through current limitation
- 1:1.6 Selective coordinate ratio between 'minor' and 'major' fuse
- gM type offer enhanced motor starting capability
- Power loss values well within the limits of IEC 60269-2

**Catalogue symbol:**

- NIT(amp)
- NET(amp)
- TIA(amp)
- TIS(amp)
- TCP(amp)
- TFP(amp)

**Standard/Agency information:**

- BS88-2
- IEC 60269-2

**Breaking range and utilisation category:**

- gG
- gM

**Technical data:**

- Breaking capacity: AC: ASTA 20 certified to 80 kA, generally at 660 Volts a.c. to BS88-2 1988 (IEC 60269-2)
- Minimum interrupting rating:  $1.6 \times I_n$

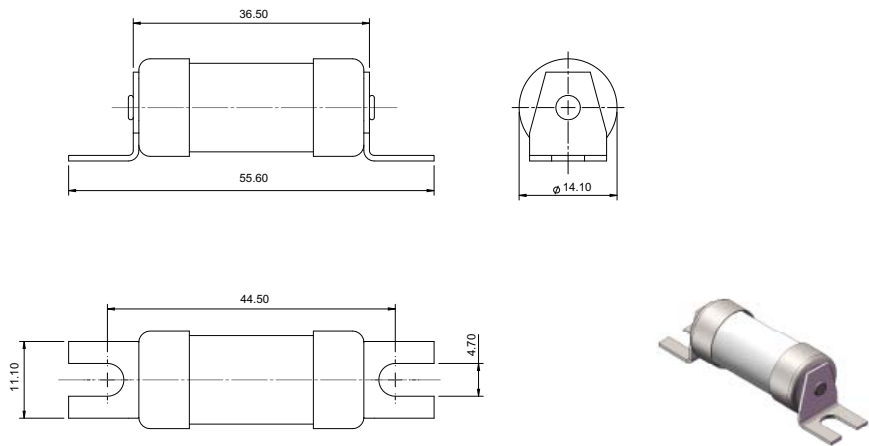
**Packaging:**

- NIT, NET, TIA and TIS: 20
- TCP and TFP: 10

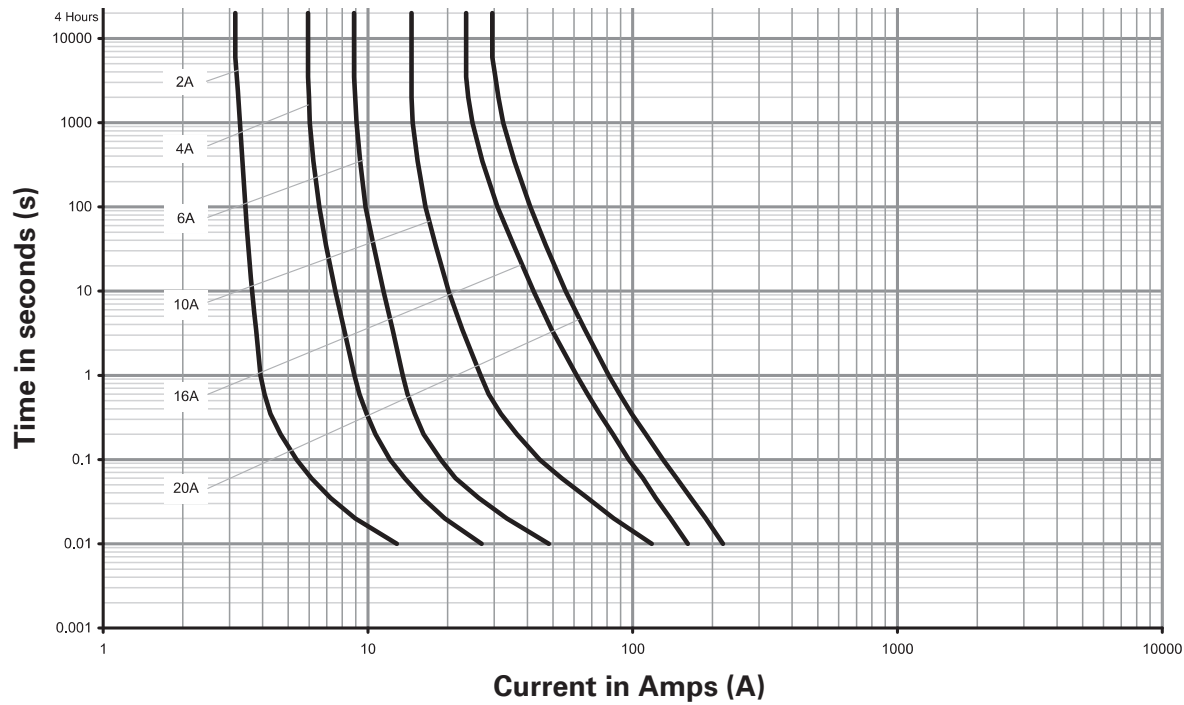
NIT

| Catalogue numbers | Rated voltage             | Rated current (Amps) | BS Reference | Breaking capacity | Operating class | I <sup>2</sup> t (A <sup>2</sup> s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links | Compatible fuse holders |
|-------------------|---------------------------|----------------------|--------------|-------------------|-----------------|-------------------------------------|------------------------|--------------------|---------------|------------------------|-------------------------|
|                   |                           |                      |              |                   |                 | Pre-arcing                          | Total at rated voltage |                    |               |                        |                         |
| NIT2              | 550 V a.c./<br>250 V d.c. | 2                    | A1           | 80 kA             | gG              | 2.2                                 | 15                     | 44                 | 20            | NITD                   | RS20 or<br>CM32FC       |
| NIT4              |                           | 4                    | A1           | 80 kA             | gG              | 7.2                                 | 50                     |                    |               |                        |                         |
| NIT6              |                           | 6                    | A1           | 80 kA             | gG              | 22                                  | 150                    |                    |               |                        |                         |
| NIT10             |                           | 10                   | A1           | 80 kA             | gG              | 170                                 | 1000                   |                    |               |                        |                         |
| NIT16             |                           | 16                   | A1           | 80 kA             | gG              | 200                                 | 1350                   |                    |               |                        |                         |
| NIT20             |                           | 20                   | A1           | 80 kA             | gG              | 360                                 | 2200                   |                    |               |                        |                         |

Dimensions - mm



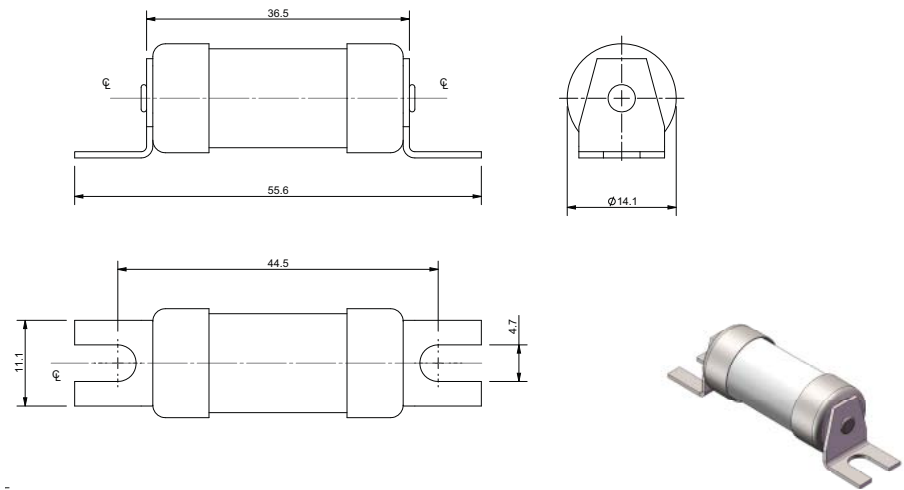
Time current curve



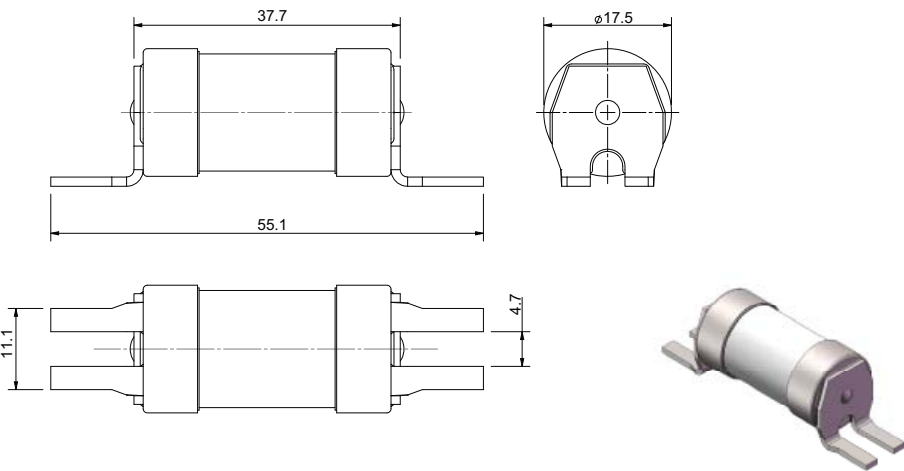
NET

| Catalogue numbers | Rated voltage             | Rated current (Amps) | BS Reference | Breaking capacity | Operating class | I <sup>2</sup> t (A²s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links | Compatible fuse holders |
|-------------------|---------------------------|----------------------|--------------|-------------------|-----------------|------------------------|------------------------|--------------------|---------------|------------------------|-------------------------|
|                   |                           |                      |              |                   |                 | Pre-arcing             | Total at rated voltage |                    |               |                        |                         |
| NET25             | 440 V a.c./<br>250 V d.c. | 25                   | A1           | 80 kA             | gG              | 650                    | 2900                   | 44                 | 20            | NITD                   | CM32FC                  |
| NET32             |                           | 32                   | A1           | 80 kA             | gG              | 600                    | 4050                   |                    |               |                        |                         |
| NET32M40          |                           | 32M40                | A1           | 80 kA             | gM              | 2400                   | 12,000                 |                    |               |                        |                         |
| NET32M50          |                           | 32M50                | A1           | 80 kA             | gM              | 3200                   | 15,000                 |                    |               |                        |                         |
| NET32M63          |                           | 32M63                | A1           | 80 kA             | gM              | 5400                   | 25,000                 |                    |               |                        |                         |

Dimensions - mm



NET25 and NET32

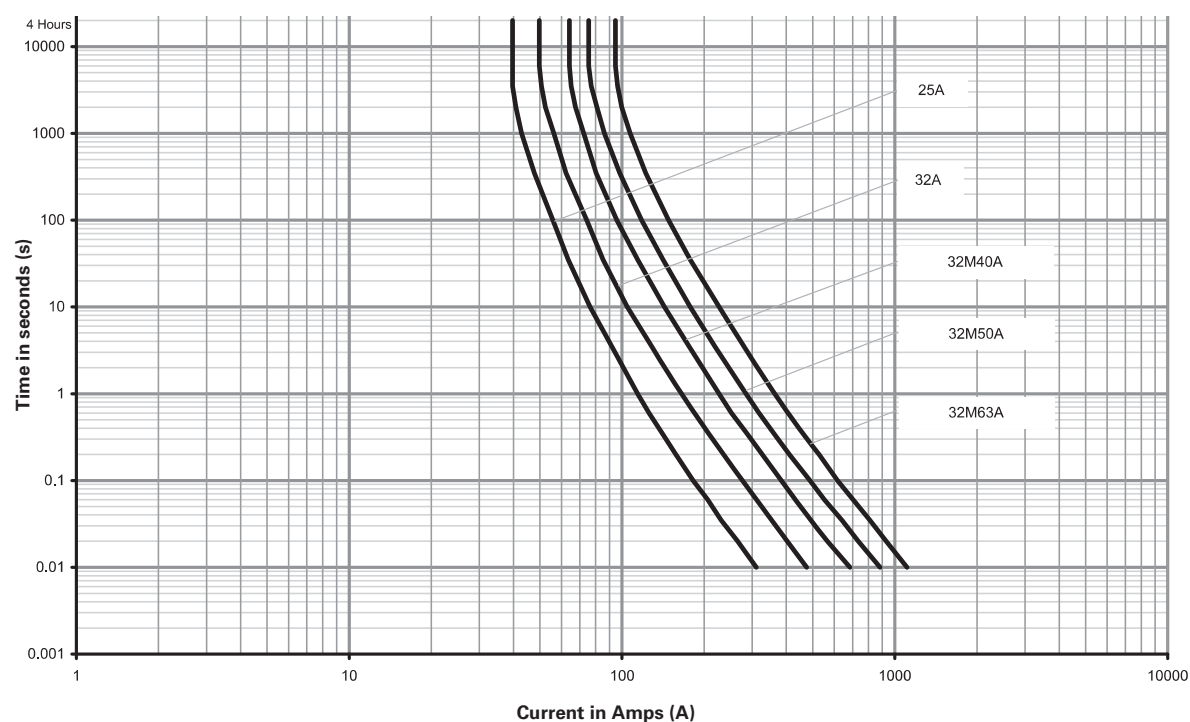


NET32M

# Red Spot offset bolted tags fuse links

## NET

### Time current curve

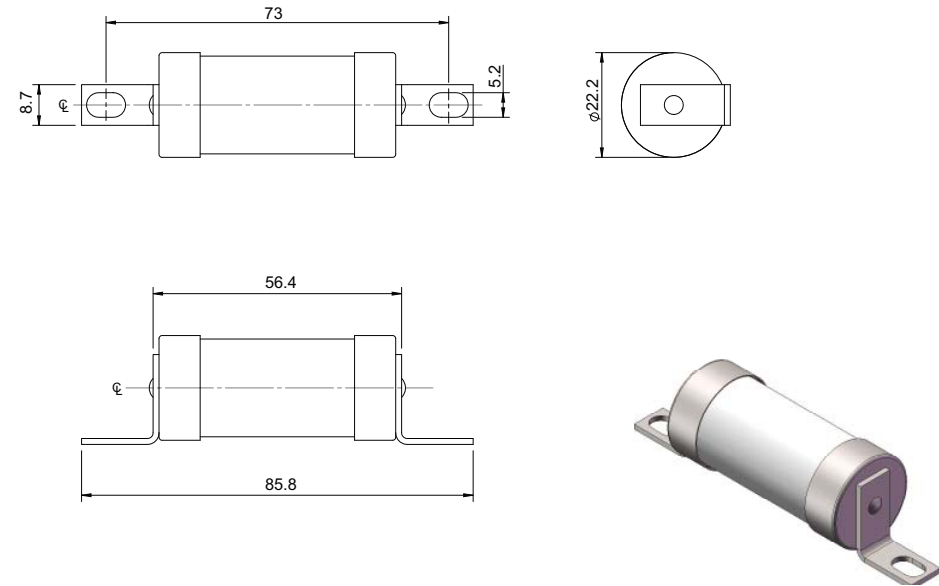


## TIA

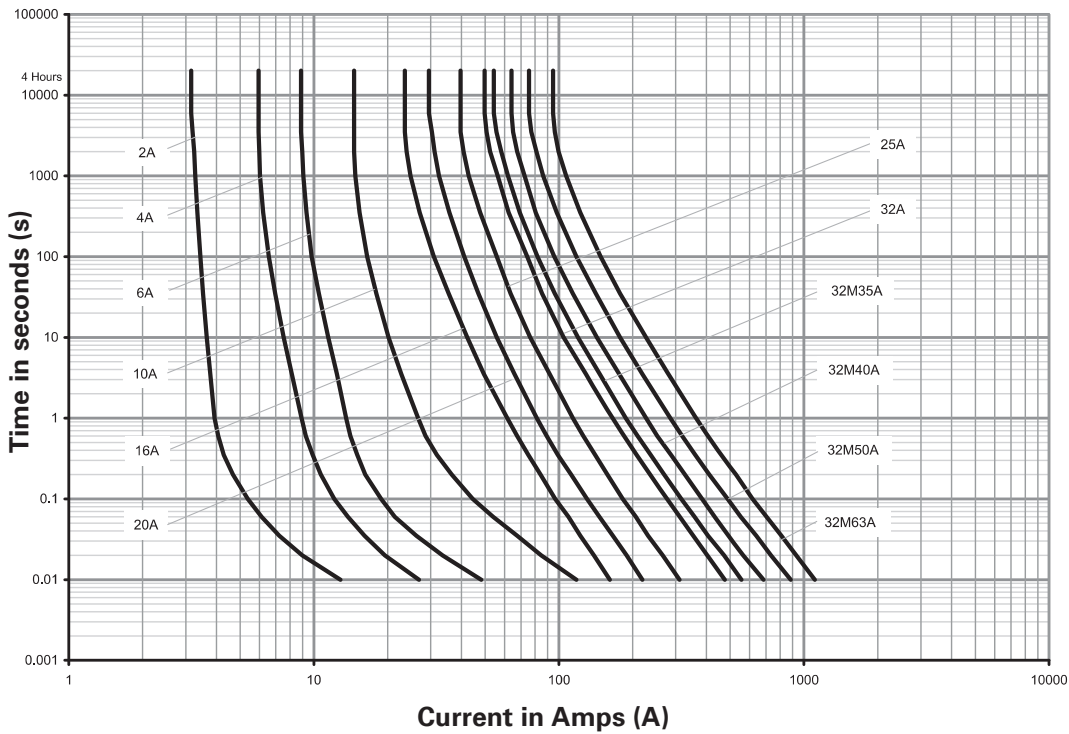
| Catalogue numbers | Rated voltage                 | Rated current (Amps) | BS Reference | Breaking capacity | Operating class | I <sup>2</sup> t (A <sup>2</sup> s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links       | Compatible fuse holders |
|-------------------|-------------------------------|----------------------|--------------|-------------------|-----------------|-------------------------------------|------------------------|--------------------|---------------|------------------------------|-------------------------|
|                   |                               |                      |              |                   |                 | Pre-arcing                          | Total at rated voltage |                    |               |                              |                         |
| TIA2              | 660-690 V a.c./<br>460 V d.c. | 2                    | A2           | 80 kA             | gG              | 2                                   | 15                     | 73                 | 20            | H07-660<br>AAO at 550 V a.c. | CM32F or<br>RS32        |
| TIA4              |                               | 4                    | A2           | 80 kA             | gG              | 7                                   | 50                     |                    |               |                              |                         |
| TIA6              |                               | 6                    | A2           | 80 KA             | gG              | 22                                  | 150                    |                    |               |                              |                         |
| TIA10             |                               | 10                   | A2           | 80 kA             | gG              | 170                                 | 1000                   |                    |               |                              |                         |
| TIA16             |                               | 16                   | A2           | 80 KA             | gG              | 150                                 | 1100                   |                    |               |                              |                         |
| TIA20             |                               | 20                   | A2           | 80 kA             | gG              | 300                                 | 1670                   |                    |               |                              |                         |
| TIA25             |                               | 25                   | A2           | 80 KA             | gG              | 500                                 | 3400                   |                    |               |                              |                         |
| TIA32             |                               | 32                   | A2           | 80 kA             | gG              | 1080                                | 5900                   |                    |               |                              |                         |
| TIA32M35          |                               | 32M35                | A2           | 80 KA             | gM              | 1380                                | 6500                   |                    |               |                              |                         |
| TIA32M40          |                               | 32M40                | A2           | 80 KA             | gM              | 1920                                | 8380                   |                    |               |                              |                         |
| TIA32M50          |                               | 32M50                | A2           | 80 kA             | gM              | 3410                                | 13260                  |                    |               |                              |                         |
| TIA32M63          |                               | 32M63                | A2           | 80 KA             | gM              | 6500                                | 25000                  |                    |               |                              |                         |

TIA

Dimensions - mm



Time current curve

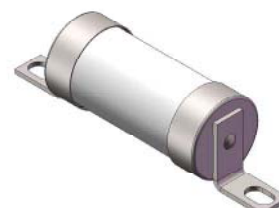
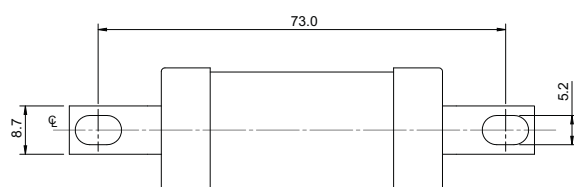
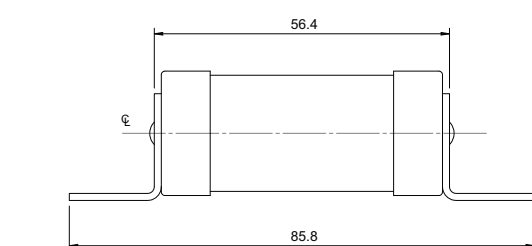


# Red Spot offset bolted tags fuse links

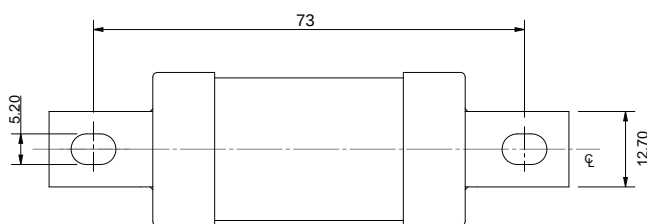
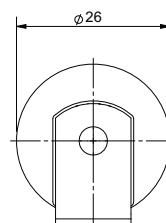
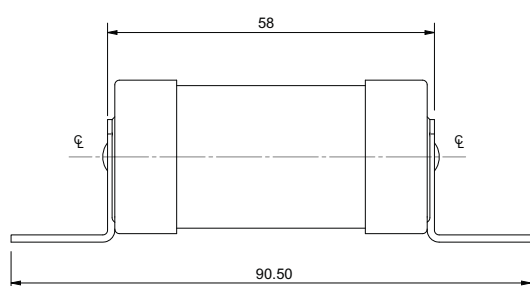
## TIS

| Catalogue numbers | Rated voltage                 | Rated current (Amps) | BS Reference | Breaking capacity | Operating class | I <sup>2</sup> t (A <sup>2</sup> s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links       | Compatible fuse holders |
|-------------------|-------------------------------|----------------------|--------------|-------------------|-----------------|-------------------------------------|------------------------|--------------------|---------------|------------------------------|-------------------------|
|                   |                               |                      |              |                   |                 | Pre-arcing                          | Total at rated voltage |                    |               |                              |                         |
| TIS35             | 660-690 V a.c./<br>460 V d.c. | 35                   | A3           | 80 kA             | gG              | 1380                                | 6500                   | 73                 | 20            | K07-660<br>BA0 at 550 V a.c. | RS63H or<br>CM63F       |
| TIS40             |                               | 40                   | A3           | 80 kA             | gG              | 1920                                | 8380                   |                    |               |                              |                         |
| TIS50             |                               | 50                   | A3           | 80 kA             | gG              | 3410                                | 13260                  |                    |               |                              |                         |
| TIS63             |                               | 63                   | A3           | 80 kA             | gG              | 6500                                | 25000                  |                    |               |                              |                         |
| TIS63M80          |                               | 63M80                | A3           | 80 kA             | gM              | 14000                               | 66000                  |                    |               |                              |                         |
| TIS63M100         |                               | 63M100               | A3           | 80 kA             | gM              | 17000                               | 100000                 |                    |               |                              |                         |

## Dimensions - mm



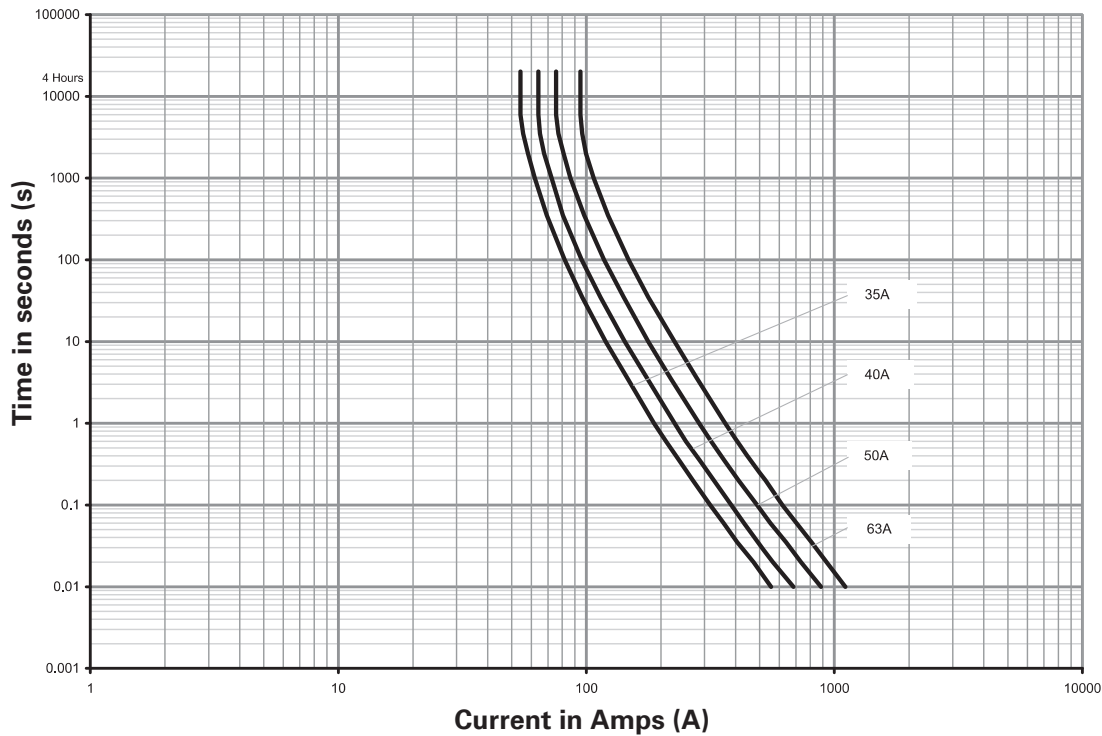
## TIS35 to TIS63



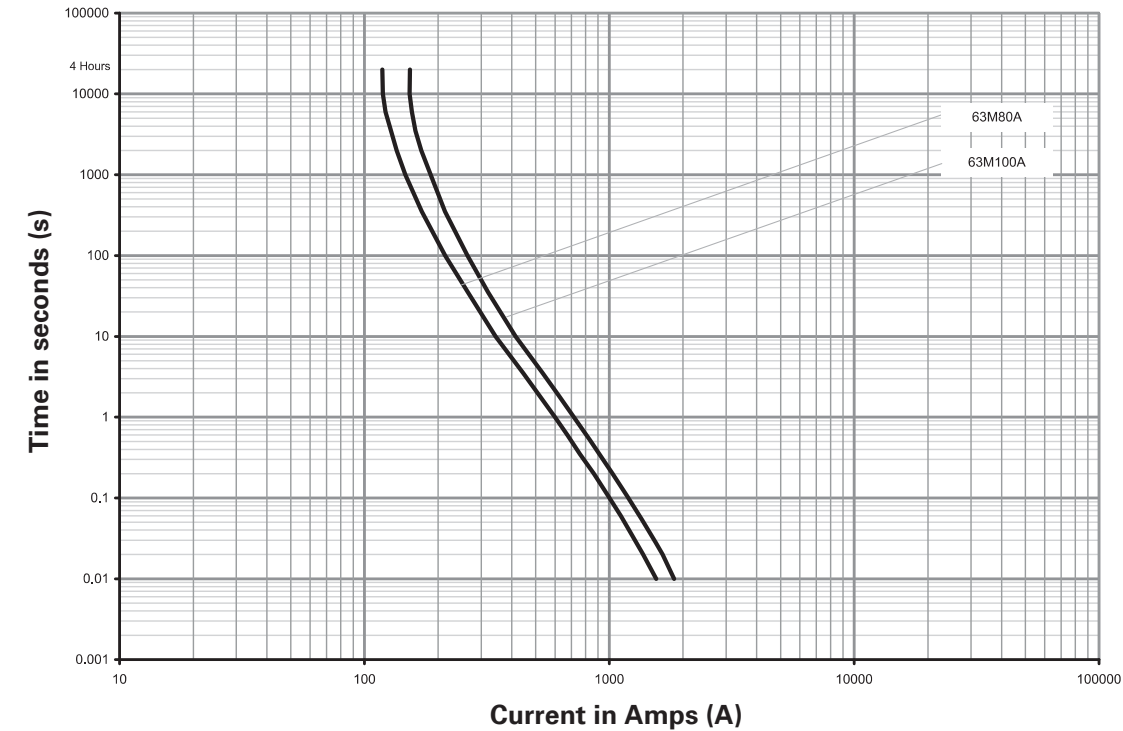
## TIS63M80 and TIS63M100

TIS

Time current curve



TIS35 to TIS63 A



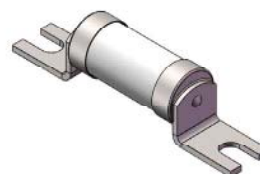
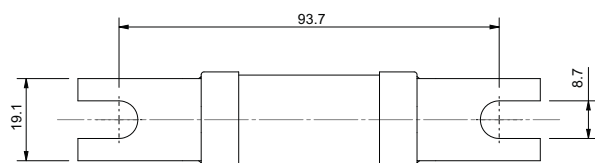
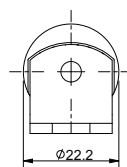
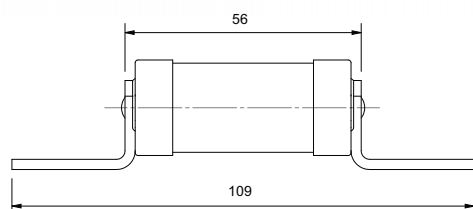
TIS63M80 and TIS63M100

# Red Spot offset bolted tags fuse links

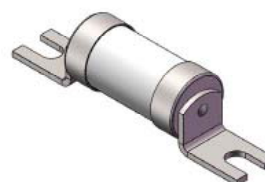
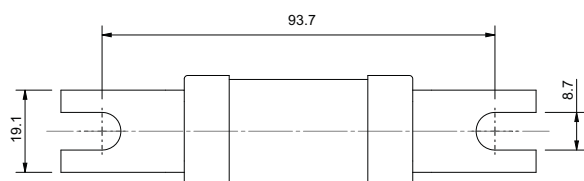
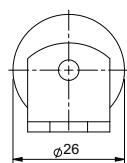
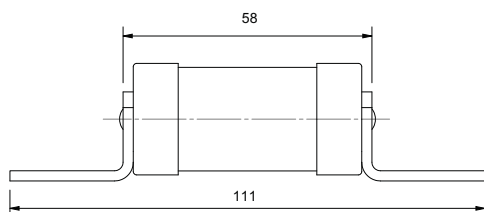
## TCP

| Catalogue numbers | Rated voltage                  | Rated current (Amps) | BS Reference | Breaking capacity | Operating class | I <sup>2</sup> t (A <sup>2</sup> s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links       | Compatible fuse holders |
|-------------------|--------------------------------|----------------------|--------------|-------------------|-----------------|-------------------------------------|------------------------|--------------------|---------------|------------------------------|-------------------------|
|                   |                                |                      |              |                   |                 | Pre-arcing                          | Total at rated voltage |                    |               |                              |                         |
| TCP32             | 660-690 V a.c./<br>460 V d.c.  | 32                   | A4           | 80 kA             | gG              | 1080                                | 5900                   | 94                 | 20            | L14-660<br>CEO at 550 V a.c. | RS100H                  |
| TCP40             |                                | 40                   | A4           | 80 kA             | gG              | 1920                                | 8380                   |                    |               |                              |                         |
| TCP50             |                                | 50                   | A4           | 80 kA             | gG              | 3410                                | 13260                  |                    |               |                              |                         |
| TCP63             |                                | 63                   | A4           | 80 kA             | gG              | 6500                                | 25000                  |                    |               |                              |                         |
| TCP80             | 6690-690 V a.c./<br>350 V d.c. | 80                   | A4           | 80 kA             | gG              | 14000                               | 66000                  |                    |               |                              |                         |
| TCP100            |                                | 100                  | A4           | 80 kA             | gG              | 17000                               | 100000                 |                    |               |                              |                         |
| TCP100M125        |                                | 100M125              | A4           | 80 kA             | gM              | 25000                               | 140000                 |                    |               |                              |                         |
| TCP100M160        |                                | 100M160              | A4           | 80 kA             | gM              | 62000                               | 270000                 |                    |               |                              |                         |
| TCP100M200        |                                | 100M200              | A4           | 80 kA             | gM              | 105000                              | 430000                 |                    |               |                              |                         |

## Dimensions - mm



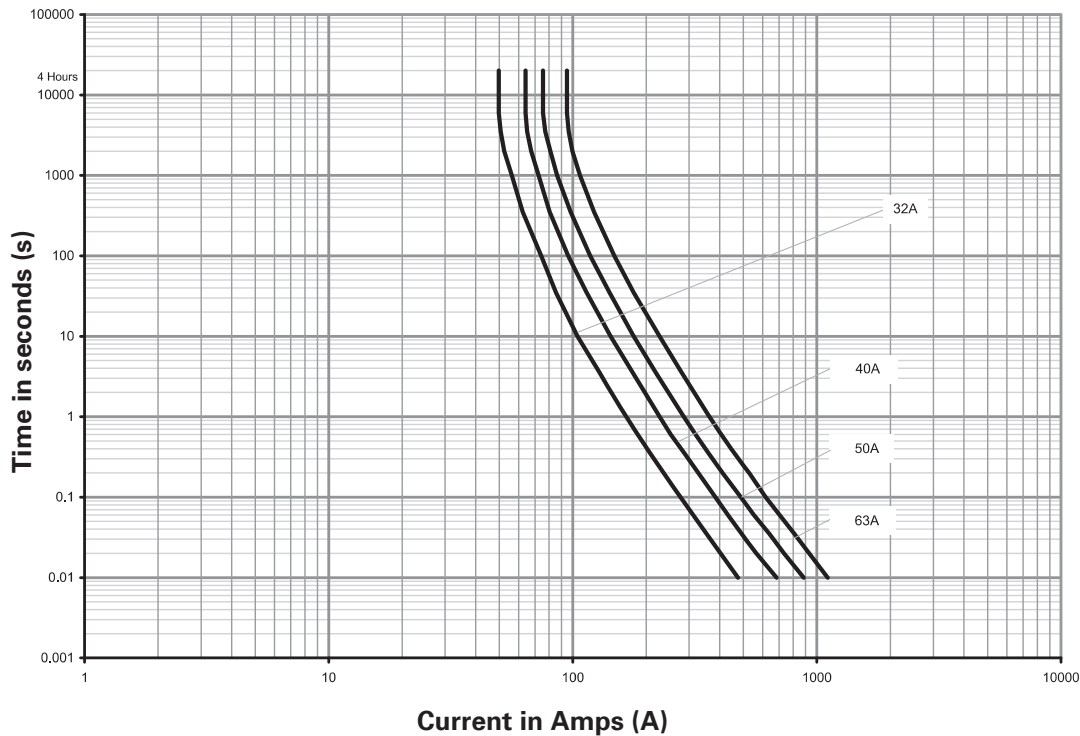
## TCP32 to TCP63



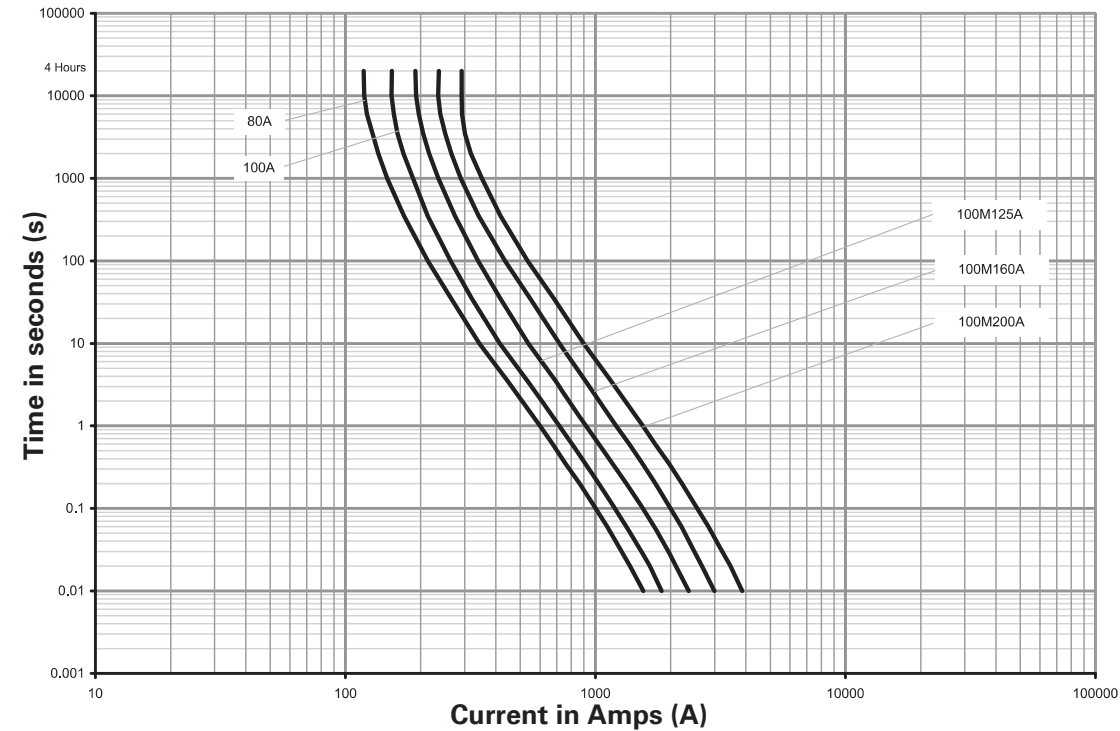
## TCP80 and TCP100

TCP

Time current curve



TCP32 to TCP63 A



TCP80 to TCP100M200

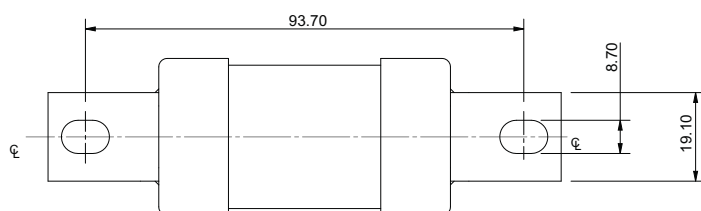
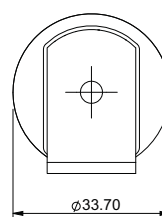
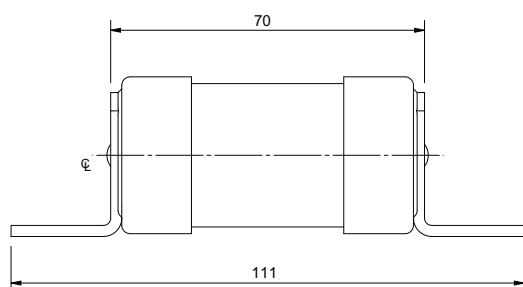
# Red Spot offset bolted tags fuse links

## TFP

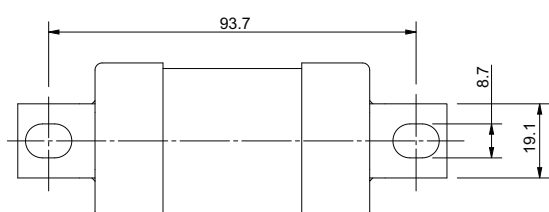
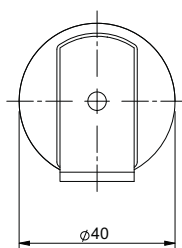
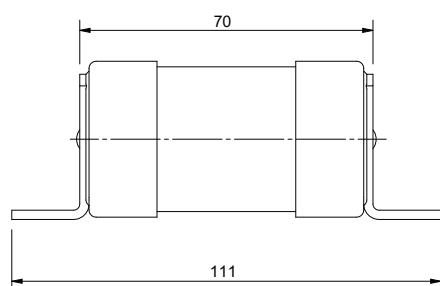
| Catalogue numbers | Rated voltage                 | Rated current (Amps) | Breaking capacity | Operating class | I <sup>2</sup> t (A <sup>2</sup> s) |                        | Fixing centre (mm) | Pack quantity | Alternative fuse links           |
|-------------------|-------------------------------|----------------------|-------------------|-----------------|-------------------------------------|------------------------|--------------------|---------------|----------------------------------|
|                   |                               |                      |                   |                 | Pre-arcing                          | Total at rated voltage |                    |               |                                  |
| TFP125            | 660-690 V a.c./<br>350 V d.c. | 125                  | 80 kA             | gG              | 25000                               | 140000                 | 94                 | 10            | M14-660<br><br>DEO at 550 V a.c. |
| TFP160            |                               | 160                  | 80 kA             | gG              | 62000                               | 270000                 |                    |               |                                  |
| TFP200            |                               | 200                  | 80 kA             | gG              | 105000                              | 430000                 |                    |               |                                  |
| TFP200M250        |                               | 200M250              | 80 kA             | gM              | 200000                              | 870000                 |                    |               |                                  |

\* DEO rated at 550 V a.c.

## Dimensions - mm

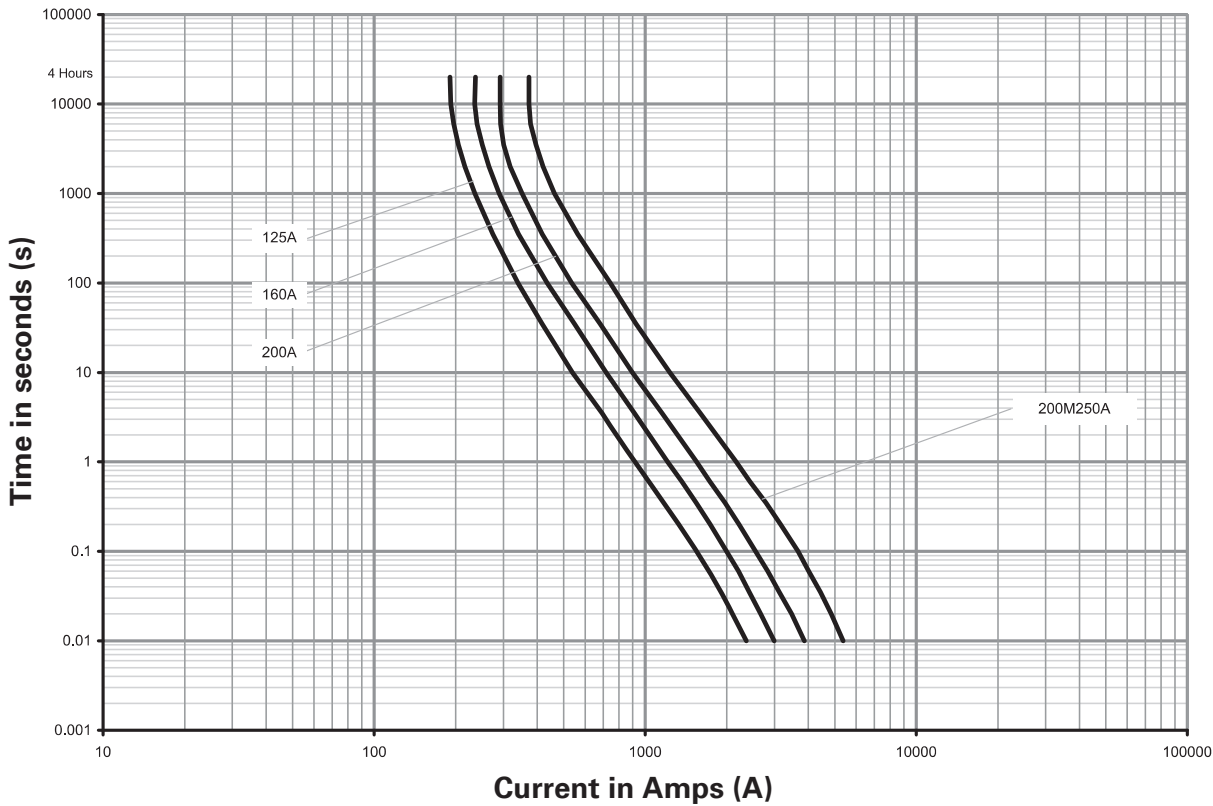


TFP125 to TFP200



TFP200M250

TFP  
Time current curve



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