

**COOPER**

**Bussmann®**

Productivity Through Protection™

# **Circuit Protection Solutions**

## **Low Voltage Fuse Links Catalogue**



**COOPER Bussmann**

## Table of Contents

|                                                       |         |
|-------------------------------------------------------|---------|
| <b>Domestic Applications to BS1361 &amp; BS1312</b>   |         |
| Consumer Unit Fuse Link                               | 4       |
| Plug Top Fuse Links                                   | 4       |
| <b>Industrial &amp; Motor Applications to BS88</b>    |         |
| Offset Bolted Tags                                    | 5 - 7   |
| Centre Bolted Tags                                    | 8 - 9   |
| Offset Blade Tags                                     | 10      |
| <b>Merchandising Stand</b>                            | 11      |
| <b>Industrial Applications to BS88 - 500Vdc</b>       |         |
| Special DC Range Offset/Centre Bolted Tag             | 12      |
| <b>Industrial Applications to BS88 - 660/690V</b>     |         |
| Offset Bolted Tags                                    | 13      |
| Centre Bolted Tags                                    | 14      |
| Special Tag Arrangements                              | 15      |
| <b>Street Lighting Applications to BS88</b>           |         |
| Offset Bolted Tags                                    | 16      |
| <b>Utility Applications to BS88</b>                   |         |
| House-Service Cut-Out Fuse Links                      | 17      |
| J Type Fuse Links to BS88: Part 5 Cylindrical         | 17      |
| J Type Fuse Links to BS88: Part 5 Slotted/Non Slotted | 18      |
| <b>Joint NATO Reference System</b>                    |         |
| Cylindrical/Offset Bolted Tag                         | 19      |
| <b>BS88 Fuseholders</b>                               |         |
| Camaster HRC Fuseholder                               | 20      |
| Safeloc Fuseholder                                    | 21      |
| <b>Cylindrical Domestic Fuses</b>                     | 22      |
| <b>Domestic Fuses</b>                                 | 23      |
| <b>Cylindrical Industrial Fuses</b>                   |         |
| Class gG                                              | 24      |
| Class aM                                              | 25      |
| CHD                                                   | 26      |
| CHM                                                   | 27      |
| CH                                                    | 28      |
| <b>NH Fuses - Dual Indicator</b>                      |         |
| Class gG - Low Power Loss                             | 29 - 30 |
| Class gG                                              | 31      |
| Class aM                                              | 32 - 33 |
| Class gG - aM                                         | 34      |
| <b>NH Fuses - Dimensions</b>                          | 35      |
| <b>NH Fuseholders for Knife Fuses</b>                 | 36      |
| <b>Dimensions for Knife fuse and Fuseholders (NH)</b> | 37 - 38 |
| <b>NH Fuse Rails and Disconnectors</b>                | 39 - 41 |
| <b>DO Fuses</b>                                       | 42      |
| <b>DO Fuseholders</b>                                 | 43      |
| <b>D Fuses</b>                                        | 44      |
| <b>D Fuseholders</b>                                  | 45      |
| <b>Other Low Voltage Fuse Ranges</b>                  | 46      |
| <b>Medium Voltage Fuses and Isolators</b>             | 47      |
| <b>Ultra Fast Fuses and Holders</b>                   | 48 - 49 |



## Domestic Applications to BS1361 & BS1312

### Consumer Unit Fuse Link 240V / 5 - 45 A



#### Specifications

**Description:** Cylindrical Fuse Links for domestic application according to BS1361

#### Ratings:

Volts: - 240V

Amps: - 5 - 45A

IR - 16.5kA

**Applications:** Protection of domestic distribution systems.

**Agency Information:** Approved to BS1361

#### Catalogue Numbers

| Rating (A) | Catalogue Number | Colour Code | Unit Packing |
|------------|------------------|-------------|--------------|
| 5          | C55              | White       | 10           |
| 15         | C1515            | Blue        |              |
| 20         | C1520            | Yellow      |              |
| 30         | C3030            | Red         |              |
| 45         | C4545            | Green       |              |

BK (Part Number), Unit packing = 100

#### Dimensions



| Catalogue Number | A     | B  |
|------------------|-------|----|
| C55              | 5.35  | 23 |
| C1515            | 10.2  | 26 |
| C1520            | 10.32 | 26 |
| C3030            | 12.7  | 29 |
| C4545            | 16.67 | 35 |

### Plug Top Fuse Links 240V / 1 - 13A



#### Specifications

**Description:** Cylindrical Fuse links for domestic applications according to BS1362, to be fitted into domestic BS1363 plug top to conform with the requirements of the Plug and Socket Safety Regulations 1995

#### Ratings:

Volts: - 240V

Amps: - 1 - 13A

IR - 6kA

**Applications:** protection of the cables connected to domestic equipment against overloads or small overcurrents.

**Agency Information:** BSI Kite Mark, ASTA accreditation (except 1A Fuse), BS1362

#### RoHS Compliant

#### Catalogue Numbers

| Rating (A) | Catalogue Number | Colour Code | Unit Packing |
|------------|------------------|-------------|--------------|
| 1          | C180-1A          | Black       | 10           |
| 2          | C180-2A          | Black       |              |
| 3          | C180-3A          | Red         |              |
| 5          | C180-5A          | Black       |              |
| 7          | C180-7A          | Black       |              |
| 10         | C180-10A         | Black       |              |
| 13         | C180-13A         | Black       |              |

BK-(Part Number), Unit packing= 100

#### Dimensions



| Catalogue Number | A    | B    |
|------------------|------|------|
| C180-RatingA     | 6.45 | 25.4 |

## Industrial & Motor Applications to BS88

### Offset Bolted Tags 240 - 550V ac / 2 - 32A

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics

**Applications:** General Industrial & Motors applications

#### Ratings:

Volts: - 415 - 550V ac  
Amps: - 2 - 32A  
IR - 80kA @ 415/550V ac

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986)

**RoHS Compliant**

### NITD 550V ac (gG) / 2 - 32A 415V ac (gM)

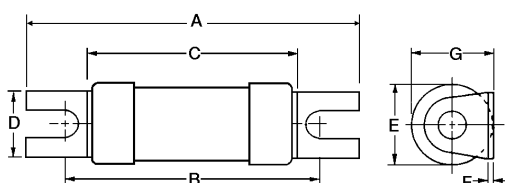


#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 2          | NITD2            | gG    | A1     | 44                | 20           |
| 4          | NITD4            |       |        |                   |              |
| 6          | NITD6            |       |        |                   |              |
| 10         | NITD10           |       |        |                   |              |
| 16         | NITD16           |       |        |                   |              |
| 20         | NITD20           |       |        |                   |              |
| 25         | NITD25           |       |        |                   |              |
| 32         | NITD32           |       |        |                   |              |
| 20M25      | NITD20M25        |       |        |                   |              |
| 20M32      | NITD20M32        |       |        |                   |              |
| 32M40      | NITD32M40        | gM    |        |                   |              |
| 32M50      | NITD32M50        |       |        |                   |              |
| 32M63      | NITD32M63        |       |        |                   |              |

Fuseholders: CAMASTER CM32FC, see page 20

#### Dimensions



| Part No | Dimensions (mm) |    |      |      |      |     |      |
|---------|-----------------|----|------|------|------|-----|------|
|         | A               | B  | C    | D    | E    | F   | G    |
| NITD    | 55.0            | 44 | 34.6 | 11.2 | 13.8 | 0.8 | 14.0 |
| NITD32M |                 |    | 35.6 |      | 17.5 | 1.2 | 18.5 |

Data Sheet: 4106

### AAO 550V ac / 2 - 32A

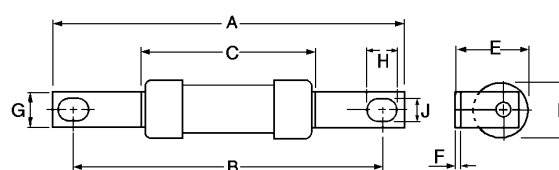


#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 2          | AAO2             | gG    | A2     | 73                | 20           |
| 4          | AAO4             |       |        |                   |              |
| 6          | AAO6             |       |        |                   |              |
| 10         | AAO10            |       |        |                   |              |
| 16         | AAO16            |       |        |                   |              |
| 20         | AAO20            |       |        |                   |              |
| 25         | AAO25            |       |        |                   |              |
| 32         | AAO32            |       |        |                   |              |
| 32M40      | AAO32M40         |       |        |                   |              |
| 32M50      | AAO32M50         |       |        |                   |              |
| 32M63      | AAO32M63         | gM    |        |                   |              |

Fuseholders: CAMASTER CM32F, see page 20

#### Dimensions



| Part No | Dimensions (mm) |    |      |      |      |     |     |     |     |
|---------|-----------------|----|------|------|------|-----|-----|-----|-----|
|         | A               | B  | C    | D    | E    | F   | G   | H   | J   |
| AAO     | 85              | 73 | 35.5 | 13.7 | 14   | 1.2 | 8.7 | 8.0 | 5.5 |
| AAO32M  |                 |    | 54.5 | 21   | 22.3 |     |     |     |     |

Data Sheet: 4109

## Industrial & Motor Applications to BS88

### Offset Bolted Tags (Cont.../...) 240-550V / 32 - 100A

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics

**Applications:** General Industrial & Motors applications

#### Ratings:

Volts: - 415 - 550V ac  
Amps: - 32 - 100A  
IR - 80kA @ 415 / 550V ac

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986) and CSA C22.2 No 106-M 1985

**RoHS Compliant**

### BAO 550V ac / 35-63A

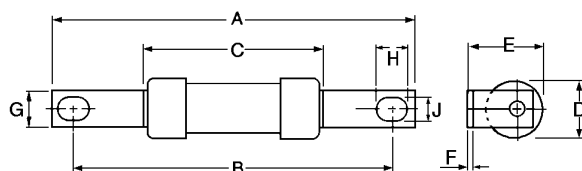


#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 35         | BAO35            | gG    | A3     | 73                | 20           |
| 40         | BAO40            |       |        |                   |              |
| 50         | BAO50            |       |        |                   |              |
| 63         | BAO63            |       |        |                   |              |
| 63M80      | BAO63M80         | gM    | A3     | 73                | 20           |
| 63M100     | BAO63M100        |       |        |                   |              |

Fuseholder: CAMASTER CM63F, see page 20

#### Dimensions



| Part No       | Dimensions (mm) |    |      |    |      |     |      |     |     |
|---------------|-----------------|----|------|----|------|-----|------|-----|-----|
|               | A               | B  | C    | D  | E    | F   | G    | H   | J   |
| BAO<br>BAO63M | 87              | 73 | 54.5 | 21 | 22.5 | 1.2 | 12.7 | 8.0 | 5.5 |

Data Sheet: 4112

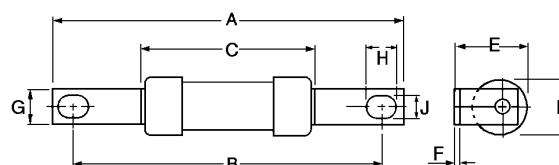
### CEO 550V ac / 32-100A 415V ac (gM)



#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 32         | CEO32            | gG    | A4     | 94                | 10           |
| 40         | CEO40            |       |        |                   |              |
| 50         | CEO50            |       |        |                   |              |
| 63         | CEO63            |       |        |                   |              |
| 80         | CEO80            |       |        |                   |              |
| 100        | CEO100           |       |        |                   |              |
| 100M125    | CEO100M125       | gM    | A4     | 94                | 10           |
| 100M160    | CEO100M160       |       |        |                   |              |
| 100M200    | CEO100M200       |       |        |                   |              |

#### Dimensions



| Part No          | Dimensions (mm) |    |      |      |      |     |      |      |     |
|------------------|-----------------|----|------|------|------|-----|------|------|-----|
|                  | A               | B  | C    | D    | E    | F   | G    | H    | J   |
| CEO              | 110             | 94 | 58.5 | 21.0 | 24.5 | 3.2 | 14.3 | 11.0 | 8.7 |
| CEO100M125 & 160 |                 |    |      | 25.8 | 26.8 |     |      |      |     |
| CEO100M200       |                 |    | 47.0 | 31   | 29.5 |     |      |      |     |

Data Sheet: 4115

## Industrial & Motor Applications to BS88

### Offset Bolted Tags (Cont.../...) 240 - 550V ac / 80 - 200A

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics

**Applications:** General Industrial & Motors applications

#### Ratings:

Volts: - 415 - 550V ac  
Amps: - 80 - 200A  
IR - 80kA @ 415 / 550V ac

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986)

**RoHS Compliant**

### OSD 550V ac (gG) / 80 - 100A 415V ac (gM)

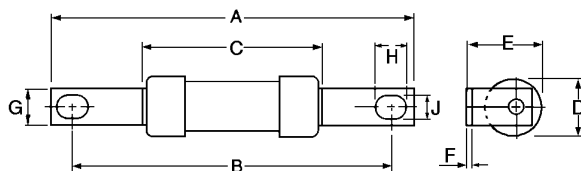


#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 80         | OSD80            | gG    | N/A    | 73                | 20           |
| 100        | OSD100           |       |        |                   |              |
| 100M125    | OSD100M125       | gM    |        |                   |              |
| 100M160    | OSD100M160       |       |        |                   |              |

Fuseholders: CAMASTER CM100F, see page 20

#### Dimensions



| Part No | Dimensions (mm) |    |      |      |      |     |      |     |     |
|---------|-----------------|----|------|------|------|-----|------|-----|-----|
|         | A               | B  | C    | D    | E    | F   | G    | H   | J   |
| OSD     | 95.0            | 73 | 54.5 | 21.0 | 22.5 | 1.2 | 12.7 | 8.0 | 5.5 |
| OSD100M |                 |    |      | 26.0 | 25.7 |     |      |     |     |

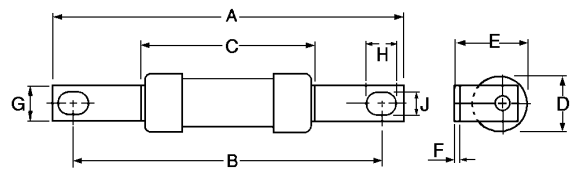
### DEO 415V ac / 125 - 200A (gG) (gM)



#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Ref | Fixing Centres mm | Unit Packing |
|------------|------------------|-------|--------|-------------------|--------------|
| 125        | DEO125           | gG    | N/A    | 94                | 5            |
| 160        | DEO160           |       |        |                   |              |
| 200        | DEO200           |       |        |                   |              |
| 200M250    | DEO200M250       | gM    |        |                   |              |
| 200M315    | DEO200M315       |       |        |                   |              |

#### Dimensions



| Part No | Dimensions (mm) |    |      |      |      |     |      |      |     |
|---------|-----------------|----|------|------|------|-----|------|------|-----|
|         | A               | B  | C    | D    | E    | F   | G    | H    | J   |
| DEO     | 110             | 94 | 47.0 | 31.0 | 29.5 | 3.2 | 19.0 | 10.0 | 9.0 |
| DEO200M |                 |    |      |      |      |     |      |      |     |

## Industrial & Motor Applications to BS88

### Centre Bolted Tags

**415 - 550V ac / 2 - 1250A**  
**250V dc**

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics

**Applications:** General Industrial & Motors applications

#### Ratings:

Volts: - 415 - 550V ac / 250V dc  
Amps: - 2 - 1250A  
IR - 40kA @ 250V dc  
- 80kA @ 415 / 550V ac

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986)

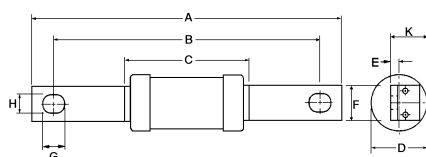
**RoHS Compliant**

**AC / BC**  
**550V ac / 2 - 63A**  
**250 V dc (except gM)**

#### Catalogue Numbers

| Type | Rating (A) | Catalogue Number | Class | Fixing Centres mm | Unit Packing |
|------|------------|------------------|-------|-------------------|--------------|
| AC   | 2          | AC2              | gG    | 97.5              | 20           |
|      | 4          | AC4              |       |                   |              |
|      | 6          | AC6              |       |                   |              |
|      | 10         | AC10             |       |                   |              |
|      | 16         | AC16             |       |                   |              |
|      | 20         | AC20             |       |                   |              |
|      | 25         | AC25             |       |                   |              |
|      | 32         | AC32             |       |                   |              |
| BC   | 40         | BC40             | gG    | 97.5              | 20           |
|      | 50         | BC50             |       |                   |              |
|      | 63         | BC63             |       |                   |              |
|      | 63M80      | BC63M80          | gM    |                   |              |
|      | 63M100     | BC63M100         |       |                   |              |

#### Dimensions



**AD / BD / CD / DD / ED**  
**550V ac / 2 - 400A**  
**415V ac (Types gM, DD, ED)**  
**250 V dc (Types AD, BD)**

#### Catalogue Numbers

| Type | Rating (A) | Catalogue Number | Class | Ref BS | Fixing Centres mm | Unit Packing |    |    |     |    |
|------|------------|------------------|-------|--------|-------------------|--------------|----|----|-----|----|
| AD   | 2          | AD2              | gG    | N/A    | 111               | 20           |    |    |     |    |
|      | 4          | AD4              |       |        |                   |              |    |    |     |    |
|      | 6          | AD6              |       |        |                   |              |    |    |     |    |
|      | 10         | AD10             |       |        |                   |              |    |    |     |    |
|      | 16         | AD16             |       |        |                   |              |    |    |     |    |
|      | 20         | AD20             |       |        |                   |              |    |    |     |    |
|      | 25         | AD25             |       |        |                   |              |    |    |     |    |
| BD   | 32         | AD32             | gG    | N/A    | 111               | 20           |    |    |     |    |
|      | 40         | BD40             |       |        |                   |              |    |    |     |    |
|      | 50         | BD50             |       |        |                   |              |    |    |     |    |
| CD   | 63         | BD63             | gG    | N/A    | 111               | 20           |    |    |     |    |
|      | 80         | CD80             |       |        |                   |              | gG | B1 | 111 | 10 |
|      | 100        | CD100            |       |        |                   |              |    |    |     |    |
|      | 100M125    | CD100M125        |       |        |                   |              | gM |    |     |    |
|      | 100M160    | CD100M160        |       |        |                   |              |    |    |     |    |
|      | 100M200    | CD100M200        |       |        |                   |              |    |    |     |    |
| DD   | 125        | DD125            | gG    | B2     | 111               | 5            |    |    |     |    |
|      | 160        | DD160            |       |        |                   |              |    |    |     |    |
|      | 200        | DD200            |       |        |                   |              |    |    |     |    |
|      | 200M250    | DD200M250        | gM    |        |                   |              |    |    |     |    |
|      | 200M315    | DD200M315        |       |        |                   |              |    |    |     |    |
| ED   | 250        | ED250            | gG    | B3/B4  | 111               | 1            |    |    |     |    |
|      | 315        | ED315            |       |        |                   |              |    |    |     |    |
|      | 355        | ED355            |       |        |                   |              |    |    |     |    |
|      | 400        | ED400            |       |        |                   |              |    |    |     |    |
|      | 315M400    | ED315M400        |       |        |                   |              | gM |    |     |    |
|      | 400M500    | ED400M500*       |       |        |                   |              |    |    |     |    |

\*-550V ac

| Part No               | Dimensions |      |      |      |     |      |      |      |      |
|-----------------------|------------|------|------|------|-----|------|------|------|------|
|                       | A          | B    | C    | D    | E   | F    | G    | H    | K    |
| AC                    | 113.5      | 97.5 | 55.5 | 21.0 | 1.6 | 12.7 | 13.5 | 7.0  | 11.2 |
| AD                    | 128.5      | 111  | 55.0 | 21.0 | 1.4 | 14.2 | 11.8 | 8.7  | 11.2 |
| BC                    | 113.5      | 97.5 | 55.0 | 21.0 | 1.6 | 7.0  | 13.5 | 12.7 | 11.2 |
| BC63M                 |            |      |      |      |     |      |      |      |      |
| BD                    | 128.5      | 111  | 55.0 | 21.0 | 1.4 | 14.2 | 11.8 | 8.7  | 11.2 |
| CD                    | 126        | 111  | 58.5 | 21.0 | 3.2 | 14.3 | 11.1 | 8.7  | 19.5 |
| CD100M125 & CD100M160 |            |      |      | 26.0 |     |      |      |      | 22.0 |
| CD100M200             |            |      |      | 31.0 |     |      |      |      | 2.5  |
| DD                    | 136        | 111  | 47.0 | 31.0 | 3.2 | 19.0 | 12.5 | 9.0  | 22.5 |
| DD200M                |            |      |      |      |     |      |      |      |      |
| ED250                 | 136        | 111  | 47.0 | 31.0 | 4.7 | 19.0 | 12.5 | 9.0  | 31.0 |
| ED315                 |            |      |      |      |     |      |      |      |      |
| ED315M400.0           |            |      |      |      |     |      |      |      |      |
| ED400M500             |            |      |      |      |     |      |      |      |      |

Data Sheets: AC: 4110 / BC: 4113 / AD: 4111 / BD: 4114 / CD: 4116 / DD: 4118 / ED: 4119

## Industrial & Motor Applications to BS88

### Centre Bolted Tags (Cont.../...)

**415 - 550Vac / 125 - 1250A**  
**250 - 400Vdc**

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics

**Applications:** General Industrial & Motors applications

#### Ratings:

- Volts: - 415 - 550V ac / 250V dc
- Amps: - 2 - 1250A
- IR - 40kA @ 250V dc GF, GG except 1000 & 1250A
- 40kA @ 400V dc FG, FF
- 80kA @ 415/550V ac

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986)

**RoHS Compliant**

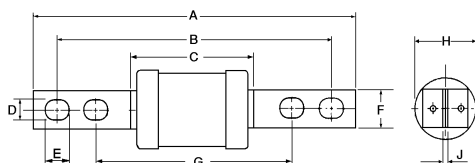
**EFS / EF / FF / GF**  
**415V ac / 125 - 800A**  
**550V ac** (Types EF - gM, FF, FG, GF)  
**250V dc** (Type GF)



#### Catalogue Numbers

| Type | Rating (A) | Catalogue Number | Class | Ref BS | Fixing Centres mm | Unit Packing | Interrupting Rating             |
|------|------------|------------------|-------|--------|-------------------|--------------|---------------------------------|
| EFS  | 125        | EFS125           | gG    | N/A    | 133               | 1            | 80kA @ 415 Vac                  |
|      | 160        | EFS160           |       |        |                   |              |                                 |
|      | 200        | EFS200           |       |        |                   |              |                                 |
|      | 250        | EFS250           |       |        |                   |              |                                 |
|      | 315        | EFS315           |       |        |                   |              |                                 |
| EF   | 355        | EF355            | gG    | C1     | 133/184           | 1            | 80kA @ 415 Vac                  |
|      | 400        | EF400            |       |        |                   |              |                                 |
|      | 400M500    | EF400M500        | gM    |        |                   |              |                                 |
| FF   | 450        | FF400            | gG    | C2     | 133/184           | 1            | 80kA @ 415 Vac<br>40kA @ 400Vdc |
|      | 500        | FF500            |       |        |                   |              |                                 |
|      | 560        | FF560            |       |        |                   |              |                                 |
|      | 630        | FF630            |       |        |                   |              |                                 |
| GF   | 710        | GF710            | gG    | C3     | 133/184           | 1            | 80kA @ 550Vac<br>40kA @ 250Vdc  |
|      | 800        | GF800            |       |        |                   |              |                                 |
|      | 1000       | GF1000           |       |        |                   |              |                                 |
|      | 1250       | GF1250           |       |        |                   |              |                                 |

#### Dimensions



| Part No     | Dimensions (mm) |     |      |      |      |      |     |      |     |
|-------------|-----------------|-----|------|------|------|------|-----|------|-----|
|             | A               | B   | C    | D    | E    | F    | G   | H    | J   |
| EFS315      | 209             | 184 | 50.0 | 10.5 | 12.5 | 25.4 | 133 | 38.0 | 4.7 |
| EF355 & 400 |                 |     |      |      | 15.5 |      |     | 59.0 |     |
| EF400M500   | 210             | 184 | 75.0 |      |      |      |     |      |     |
| FF          | 210             | 184 | 77.5 | 10.5 | 15.5 | 25.4 | 133 | 74.0 | 6.4 |
| FG          | 262             | 231 | 77.5 | 10.5 | 15.5 | 38.0 | 167 | 74   | 6.4 |
| GF          | 210             | 184 | 80.5 | 10.5 | 15.5 | 25.4 | 133 | 83.0 | 9.5 |

Data Sheets: EFS: 4121 / EF: 4120 / FF: 4102 / GF: 4103

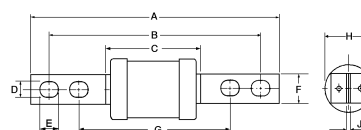
**FG / GG / GH**  
**550V ac / 450 - 1250A**  
**250V dc** (Type GG 710-800A only)  
**400V dc** (Type FG)



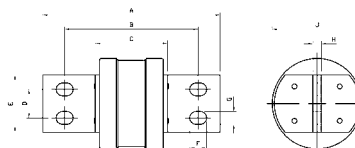
#### Catalogue Numbers

| Type | Rating (A) | Catalogue Number | Class | Fixing Centres mm | Unit Packing | Interrupting Rating                                                 |
|------|------------|------------------|-------|-------------------|--------------|---------------------------------------------------------------------|
| FG   | 450        | FG450            | gG    | 167/231           | 1            | 80kA @ 550Vac<br>40kA @ 400vdc                                      |
|      | 500        | FG500            |       |                   |              |                                                                     |
|      | 560        | FG560            |       |                   |              |                                                                     |
|      | 630        | FG630            |       |                   |              |                                                                     |
| GG   | 710        | GG710            | gG    | 165/231           | 1            | 80kA @ 550Vdc<br>40kA @ 250Vdc<br><br>80kA @ 550Vdc<br>No DC Rating |
|      | 800        | GG800            |       | 165/228.5         |              |                                                                     |
|      | 1000       | GG1000           |       |                   |              |                                                                     |
|      | 1250       | GG1250           |       |                   |              |                                                                     |
| GH   | 710        | GH710            | gG    | 149               | 1            | 80kA @ 550Vac                                                       |
|      | 800        | GH800            |       |                   |              |                                                                     |
|      | 1000       | GH1000           |       |                   |              |                                                                     |
|      | 1250       | GH1250           |       |                   |              |                                                                     |

#### Dimensions



| Part No       | Dimensions (mm) |       |      |      |      |      |     |      |     |
|---------------|-----------------|-------|------|------|------|------|-----|------|-----|
|               | A               | B     | C    | D    | E    | F    | G   | H    | J   |
| FG            | 262             | 231   | 77.5 | 10.5 | 15.5 | 38.0 | 167 | 74   | 6.4 |
| GF            | 210             | 184   | 80.5 | 10.5 | 15.5 | 25.4 | 133 | 83.0 | 9.5 |
| GG710 & 800   | 262             | 231   | 77.5 | 10.5 | 15.5 | 38.0 | 165 | 83.0 | 6.4 |
| GG1000 & 1250 |                 | 228.5 | 84.0 |      |      |      |     | 100  |     |



| Part No       | Dimensions (mm) |     |      |      |      |      |      |     |      |
|---------------|-----------------|-----|------|------|------|------|------|-----|------|
|               | A               | B   | C    | D    | E    | F    | G    | H   | J    |
| GH710 & 800   | 198             | 149 | 81.0 | 32.0 | 63.5 | 19.0 | 14.0 | 9.5 | 83.0 |
| GH1000 & 1250 |                 |     |      |      |      |      |      |     | 100  |

Data Sheets: FG: 4122 / GG: 4104 / GH: 4108



## Industrial & Motor Applications to BS88

### Offset Blade Tags 240 - 550V / 2 - 63A

#### Specifications

**Description:** Fuse Links for general industrial applications with Q1 fusing factor - general purpose (gG) and motor protection (gM) characteristics.

#### Ratings:

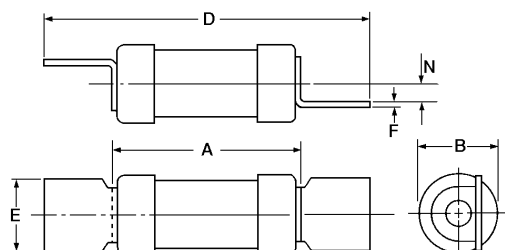
- Volts: - 240V ac (SSD)  
- 415V ac (NSD gM) / ESD gG (40 - 63A)  
- 550V ac (NSD gG) / ESD gG (2 - 32A)
- Amps: - 2 - 63A  
IR - 33kA @ 240V ac  
- 80kA @ 500V ac

**Applications:** General Industrial and Motors applications

**Agency Information:** Meets BS88: Part 6, 1988 and IEC 269: Parts 1, 1986

**RoHS Compliant**

#### Dimensions



| Part No           | Dimensions (mm) |      |      |      |     |     |
|-------------------|-----------------|------|------|------|-----|-----|
|                   | A               | B    | D    | E    | F   | N   |
| SSD               | 23.0            | 12.0 | 47.0 | 13.0 | 0.8 | 3.2 |
| NSD & NSD20M      | 34.5            | 13.8 | 58.5 | 12.7 | 0.8 | 3.5 |
| NSD20M36 & NSD32M |                 | 17.5 |      |      |     |     |
| ESD - 32A         | 35.5            | 13.8 | 68.0 | 15.0 | 1.2 | 3.5 |
| ESD40 - 63A       |                 | 17.5 |      |      |     |     |
| ESD63M            |                 | 21.0 |      |      |     |     |

#### Catalogue Numbers

| Rating (A) | Catalogue Number | Class | BS Reference | Fuseholder | Unit Packing |
|------------|------------------|-------|--------------|------------|--------------|
| 2          | SSD2             | gG    | E1           | N/A        | 20           |
| 4          | SSD4             |       |              |            |              |
| 6          | SSD6             |       |              |            |              |
| 10         | SSD10            |       |              |            |              |
| 16         | SSD16            |       |              |            |              |
| 20         | SSD20            |       |              |            |              |
| 32         | SSD32            |       |              |            |              |

| Rating (A) | Catalogue Number | Class | BS Reference | Fuseholder     | Unit Packing |
|------------|------------------|-------|--------------|----------------|--------------|
| 2          | NSD2             | gR    | F1           | SAFELOC 32NNSF | 20           |
| 4          | NSD4             |       |              |                |              |
| 6          | NSD6             |       |              |                |              |
| 10         | NSD10            |       |              |                |              |
| 16         | NSD16            |       |              |                |              |
| 20         | NSD20            |       |              |                |              |
| 32         | NSD32            | gM    | F1           | SAFELOC 32NNSF | 20           |
| 20M25      | NSD20M25         |       |              |                |              |
| 20M32      | NSD20M32         |       |              |                |              |
| 20M36      | NSD20M36         |       |              |                |              |
| 32M36      | NSD32M36         |       |              |                |              |
| 32M40      | NSD32M40         |       |              |                |              |
| 32M50      | NSD32M50         | gM    | F1           | SAFELOC 32NNSF | 20           |
| 32M63      | NSD32M63         |       |              |                |              |

| Rating (A) | Catalogue Number | Class | BS Reference | Fuse Holder    | Unit Packing |
|------------|------------------|-------|--------------|----------------|--------------|
| 2          | ESD2             | gG    | F2           | SAFELOC 63ENSF | 20           |
| 4          | ESD4             |       |              |                |              |
| 6          | ESD6             |       |              |                |              |
| 10         | ESD10            |       |              |                |              |
| 16         | ESD16            |       |              |                |              |
| 20         | ESD20            |       |              |                |              |
| 32         | ESD32            | gM    | F2           | SAFELOC 63ENSF | 20           |
| 40         | ESD40            |       |              |                |              |
| 50         | ESD50            |       |              |                |              |
| 63         | ESD63            |       |              |                |              |
| 63M80      | ESD63M80         |       |              |                |              |
| 63M100     | ESD63M100        |       |              |                |              |

## Point of Sale Stand

### Merchandising Stand

#### Specifications

**Description:** Merchandising stand with BS88 fuses packed in packs of 3's or 10's

**Stand dimensions:** 1.88 Metre tall x 0.91 Metre wide x 0.51 Metre deep\* (including hooks)



Please note this stand is for the UK market only

#### Catalogue Numbers

| Part Number | Part Description                | Pack Qty (Nb of fuses per pack) | Outer box Qty (MOQ) |
|-------------|---------------------------------|---------------------------------|---------------------|
| M-AAO10     | 10A 550V BS88 Fuse              | 3                               | 30                  |
| M-AAO16     | 16A 550V BS88 Fuse              | 3                               | 30                  |
| M-AAO20     | 20A 550V BS88 Fuse              | 3                               | 30                  |
| M-AAO25     | 25A 550V BS88 Fuse              | 3                               | 30                  |
| M-AAO32     | 32A 550V BS88 Fuse              | 3                               | 30                  |
| M-BAO40     | 40A 550V BS88 Fuse              | 3                               | 30                  |
| M-BAO50     | 50A 550V BS88 Fuse              | 3                               | 30                  |
| M-BAO63     | 63A 550V BS88 Fuse              | 3                               | 30                  |
| M-CD100     | 100A 550V BS88 Fuse             | 3                               | 30                  |
| M-CEO80     | 80A 550V BS88 Fuse              | 3                               | 30                  |
| M-CEO100    | 100A 550V BS88 Fuse             | 3                               | 30                  |
| M-NITD2     | 2A 550V BS88 Fuse               | 3                               | 30                  |
| M-NITD10    | 10A 550V BS88 Fuse              | 3                               | 30                  |
| M-NITD16    | 16A 550V BS88 Fuse              | 3                               | 30                  |
| M-NITD20    | 20A 550V BS88 Fuse              | 3                               | 30                  |
| M-NITD32    | 32A 550V BS88 Fuse              | 3                               | 30                  |
| M-C180-3A   | 3A BS1362 Fuse                  | 10                              | 100                 |
| M-C180-5A   | 5A BS1362 Fuse                  | 10                              | 100                 |
| M-C180-13A  | 13A BS1362 Fuse                 | 10                              | 100                 |
| M-NSD4      | 4A 550V BS88 Fuse               | 3                               | 30                  |
| M-NSD6      | 6A 550V BS88 Fuse               | 3                               | 30                  |
| M-NSD10     | 10A 550V BS88 Fuse              | 3                               | 30                  |
| M-NSD16     | 16A 550V BS88 Fuse              | 3                               | 30                  |
| M-NSD20     | 20A 550V BS88 Fuse              | 3                               | 30                  |
| M-NSD32     | 32A 550V BS88 Fuse              | 3                               | 30                  |
| M-NITD6     | 6A 550V BS88 Fuse               | 3                               | 30                  |
| M-STD6      | 6A 240V BS88 Fuse               | 3                               | 30                  |
| M-STD10     | 10A 240V BS88 Fuse              | 3                               | 30                  |
| M-32NNSF    | 32A Safeloc Fuseholder          | 1                               | 5                   |
| M-63ENSF    | 63A Safeloc Fuseholder          | 1                               | 5                   |
| M-CM20F     | 20A Camaster Fuseholder         | 1                               | 5                   |
| M-CM32FC    | 32A Camaster Fuseholder Compact | 1                               | 5                   |
| M-CM32F     | 32A Camaster Fuseholder         | 1                               | 5                   |
| M-CM63F     | 63A Camaster Fuseholder         | 1                               | 5                   |
| M-CM100F    | 100A Camaster Fuseholder        | 1                               | 5                   |

## Industrial Applications to BS88 - 500Vdc

### Special DC Range Offset/Centre Bolted Tag 500Vdc / 10 - 63A

#### Specifications

**Description:** Fuse links for industrial DC applications available in offset and centre bolted tags

#### Ratings:

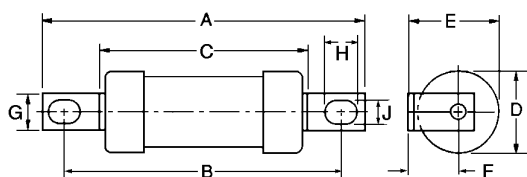
Volts: - 500V dc  
Amps: - 10 - 63A  
IR - 40kA @ 500V dc

**Applications:** Protection of DC electrical circuits

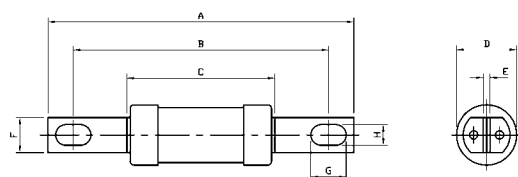
**Agency information:** ASTA approved to BS88 part 2

**RoHS Compliant**

#### Dimensions



| Part No | Dimensions (mm) |    |      |      |     |      |      |     |
|---------|-----------------|----|------|------|-----|------|------|-----|
|         | A               | B  | C    | D    | F   | G    | H    | J   |
| HS07    | 86.0            | 73 | 54.0 | 22.0 | 0.8 | 9.2  | 8.0  | 5.0 |
| KS07    | 91.0            |    |      | 27.0 | 1.2 | 13.0 | 10.5 |     |



| Part No | Dimensions (mm) |     |      |      |     |      |      |     |
|---------|-----------------|-----|------|------|-----|------|------|-----|
|         | A               | B   | C    | D    | E   | F    | G    | H   |
| KS08    | 113.0           | 98  | 56.0 | 27.0 | 2.5 | 13.0 | 13.0 | 5.0 |
| KS09    | 138.0           | 111 |      |      |     | 14.5 | 15.0 | 8.0 |

#### Catalogue Numbers

| Rating (A) | Offset Bolted | Center fixings Centre Bolted |        | Unit Packing |
|------------|---------------|------------------------------|--------|--------------|
|            | 73mm          | 98mm                         | 111mm  |              |
| 10         | 10HS07        | -                            | 10KS09 | 20           |
| 16         | 16HS07        | -                            | 16KS09 |              |
| 20         | 20HS07        | -                            | 20KS09 |              |
| 25         | 25HS07        | -                            | 25KS09 |              |
| 32         | 32HS07        | -                            | 32KS09 |              |
| 40         | 40KS07        | 40KS08                       | 40KS09 |              |
| 50         | 50KS07        | 50KS08                       | 50KS09 |              |
| 63         | 63KS07        | 63KS08                       | 63KS09 |              |

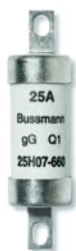
Data Sheet: E5785017

## Industrial Applications to BS88 - 660/690V

### Offset Bolted Tags 660-690V / 2 - 200A

#### Specifications

**Description:** Fuse links for industrial applications at 660/690V that meets dimensional and performance requirements of BS88 and IEC 269-1-2 standards



#### Ratings:

- Volts: - 660 / 690V ac  
 - 250V dc (2 - 63A)  
 - 400V dc (80 - 200A)
- Amps: - 2 - 200A  
 IR - 80kA @ 660V ac  
 - 40kA @ 400V dc

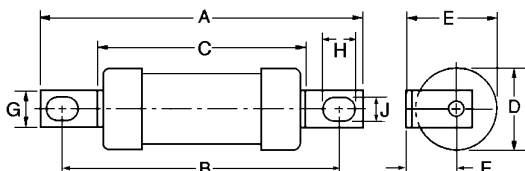
**Applications:** Protection of large industrial installations at 600/690Vac

**Agency information:** Meets BS88: Part 1 & 2 and IEC 269: Parts 1 & 2

**RoHS Compliant**

#### Catalogue Numbers

| Rating (A) | Catalogue Number | BS Reference | Unit Packing | CAMaster fuseholder |
|------------|------------------|--------------|--------------|---------------------|
| 2          | 2H07-660         | A2           | 20           | CM32F               |
| 4          | 4H07-660         |              |              |                     |
| 6          | 6H07-660         |              |              |                     |
| 10         | 10H07-660        |              |              |                     |
| 16         | 16H07-660        |              |              |                     |
| 20         | 20H07-660        |              |              |                     |
| 25         | 25H07-660        | A3           | 20           | CM63F<br>CM100F     |
| 32         | 32H07-660        |              |              |                     |
| 40         | 40K07-660        |              |              |                     |
| 50         | 50K07-660        | A4           | 10           | N/A                 |
| 63         | 63K07-660        |              |              |                     |
| 80         | 80L14-660        | N/A          | 5            | N/A                 |
| 100        | 100L14-660       |              |              |                     |
| 125        | 125M14-660       |              |              |                     |
| 160        | 160M14-660       |              |              |                     |
| 200        | 200M14-660       |              |              |                     |



| Part No | Dimensions (mm) |    |      |      |      |      |      |      |     |
|---------|-----------------|----|------|------|------|------|------|------|-----|
|         | A               | B  | C    | D    | E    | F    | G    | H    | J   |
| H07-660 | 82.3            | 73 | 52.0 | 22.0 | 22.4 | 11.5 | 8.7  | 7.7  | 5.4 |
| K07-660 | 86.0            | 73 | 54.2 | 25.8 | 26.9 | 14.0 | 12.7 | 10.5 | 5.5 |
| L14-660 | 111.0           | 94 | 67.0 | 35.5 | 37.0 | 19.2 | 19.0 | 10.3 | 8.7 |
| M14-660 | 112.0           | 94 | 66.0 | 38.0 | 38.0 | 19.0 | 19.0 | 10.0 | 8.5 |

Data Sheet H07: 4150  
 Data Sheet K07: 4151  
 Data Sheet L14: 4152  
 Data Sheet M14: 4153

## Industrial Applications to BS88 - 660/690V

### Centre Bolted Tags 660 - 690V ac / 2 - 630A 250 - 400V dc

#### Specifications

**Description:** Fuse Links for industrial applications at 660/690V that meets dimensional and performance requirements of BS88 and IEC 269-1-2 standards.



#### Ratings:

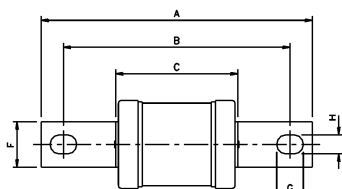
- Volts: - 660 / 690V ac  
- 250V dc (2 - 63A) (K08, K09)  
- 400V dc (80 - 630A) (L09, M09, N09, P09, N11, P11, P12, R11, R12)  
Amps: - 2 - 630A  
IR - 80kA @ 660V ac  
- 40kA @ 250V dc/400V dc

**Applications:** Protection of large industrial installations at 660/690Vac

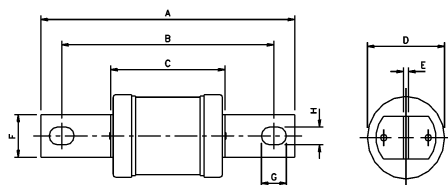
**Agency Information:** Meets BS88: Part 1 & 2 and IEC 269: Parts 1 & 2

#### RoHS Compliant

#### Dimensions



| Part No        | Dimensions (mm) |      |      |      |     |      |      |     |
|----------------|-----------------|------|------|------|-----|------|------|-----|
|                | A               | B    | C    | D    | E   | F    | G    | H   |
| K08-660 2-32A  | 111.0           | 92.5 | 53.7 | 22.0 | 2.4 | 12.7 | 13.0 | 7.5 |
| K08-660 40-63A | 111.5           | 93.0 | 54.2 | 25.0 |     |      |      |     |
| K09-660 2-32A  | 127.0           | 111  | 53.7 | 22.0 | 2.4 | 14.0 | 15.2 | 8.7 |
| K09-660 40-63A | 128.0           | 111  | 54.2 | 25.0 |     |      |      |     |



| Part No | Dimensions (mm) |     |      |      |     |      |      |      |
|---------|-----------------|-----|------|------|-----|------|------|------|
|         | A               | B   | C    | D    | E   | F    | G    | H    |
| L09-660 | 136.0           | 111 | 65.5 | 35.5 | 3.2 | 19.0 | 15.1 | 8.7  |
| M09-660 | 135.0           | 111 | 65.0 | 37.0 | 3.2 | 19.0 | 15.0 | 8.7  |
| N09-660 | 135.0           | 111 | 73.0 | 49.0 | 3.2 | 25.4 | 12.7 | 9.5  |
| P09-660 | 135.5           | 111 | 75.0 | 58.5 | 4.7 | 25.4 | 12.7 | 9.5  |
| N11-660 | 162.0           | 133 | 73.0 | 49.0 | 3.2 | 25.4 | 15.8 | 10.5 |

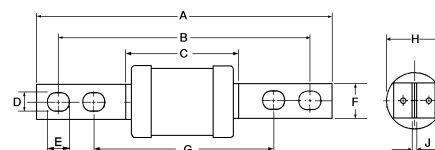
#### Catalogue Numbers

| Rating (A) | Catalogue Number | BS Reference | Fixing Centres (mm) | Unit Packing |
|------------|------------------|--------------|---------------------|--------------|
| 2          | 2K08-660         | N/A          | 93                  | 20           |
| 4          | 4K08-660         |              |                     |              |
| 6          | 6K08-660         |              |                     |              |
| 10         | 10K08-660        |              |                     |              |
| 16         | 16K08-660        |              |                     |              |
| 20         | 20K08-660        |              |                     |              |
| 32         | 32K08-660        |              |                     |              |
| 40         | 40K08-660        |              |                     |              |
| 50         | 50K08-660        |              |                     |              |
| 63         | 63K08-660        |              |                     |              |

|     |            |     |     |    |
|-----|------------|-----|-----|----|
| 2   | 2K09-660   | N/A | 111 | 20 |
| 4   | 4K09-660   |     |     |    |
| 6   | 6K09-660   |     |     |    |
| 10  | 10K09-660  |     |     |    |
| 16  | 16K09-660  |     |     |    |
| 20  | 20K09-660  |     |     |    |
| 32  | 32K09-660  |     |     |    |
| 40  | 40K09-660  |     |     |    |
| 50  | 50K09-660  |     |     |    |
| 63  | 63K09-660  |     |     |    |
| 80  | 80L09-660  | B1  |     |    |
| 100 | 100L09-660 |     |     |    |
| 125 | 125M09-660 | B2  |     |    |
| 160 | 160M09-660 |     |     |    |
| 200 | 200M09-660 |     |     |    |
| 250 | 250N09-600 |     |     |    |
| 315 | 315N09-660 | B3  |     |    |
| 355 | 355P09-660 | B4  |     |    |
| 400 | 400P09-660 |     |     |    |

|     |            |     |         |   |
|-----|------------|-----|---------|---|
| 125 | 125N11-660 | N/A | 133     | 1 |
| 160 | 160N11-660 |     |         |   |
| 200 | 200N11-660 |     |         |   |
| 250 | 250N11-660 |     |         |   |
| 315 | 315N11-660 | N/A | 133     | 1 |
| 355 | 355P11-660 |     |         |   |
| 400 | 400P11-660 |     |         |   |
| 450 | 450R11-660 |     |         |   |
| 500 | 500R11-660 | C2  | 133/184 | 1 |
| 560 | 560R11-660 |     |         |   |
| 630 | 630R11-660 |     |         |   |

|     |            |     |         |   |
|-----|------------|-----|---------|---|
| 355 | 355P12-660 | N/A | 167/231 | 1 |
| 400 | 400P12-660 |     |         |   |
| 450 | 450R12-660 | N/A | 167/231 | 1 |
| 500 | 500R12-660 |     |         |   |
| 560 | 560R12-660 |     |         |   |
| 630 | 630R12-660 |     |         |   |



| Part No | Dimensions (mm) |     |     |      |      |      |      |      |     |
|---------|-----------------|-----|-----|------|------|------|------|------|-----|
|         | A               | B   | C   | D    | E    | F    | G    | H    | J   |
| P11-660 | 212.0           | 184 | 133 | 75.0 | 25.4 | 16.0 | 10.0 | 59.0 | 5.0 |
| P12-660 | 262.0           | 231 | 167 |      |      |      |      |      |     |
| R11-660 | 210.0           | 184 | 133 | 76.0 | 26.0 | 16.0 | 10.0 | 74.0 | 6.5 |
| R12-660 | 262.0           | 231 | 167 |      |      |      |      |      |     |

Data Sheets: K08: 415 / L09: 4156 / M09: 4157 / N09: 4158 / P09: 4159 / N11: 4160 / P11: 4161 / R11: 4162 / R12: 4162

## Industrial Applications to BS88 - 660/690V

### Special Tag Arrangements 660 - 690V / 125 - 800A

#### Specifications

**Description:** Fuse Links for industrial applications at 660/690V that meets dimensional and performance requirements of BS88 and IEC 269-1-2 standards.



#### Ratings:

- Volts: - 660 / 690V ac (except S20 type - 550V ac)  
 - 400V dc (except S20 type)  
 Amps: - 125 - 800A  
 IR - 80kA @ 660V ac  
 - 40kA @ 400V (except S20 type)

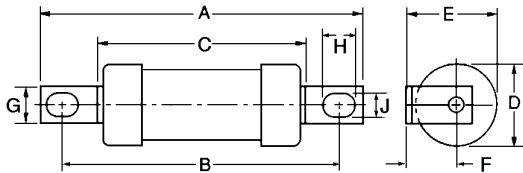
**Applications:** Protection of large industrial installations at 600 / 690Vac

**Agency Information:** BS88 part 1 section 2-1 & 2-2

**RoHS Compliant**

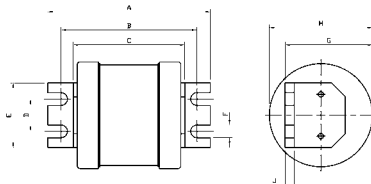
#### Dimensions

##### Offset Bolted Tag



| Part No | Dimensions (mm) |       |       |      |      |      |      |      |     |
|---------|-----------------|-------|-------|------|------|------|------|------|-----|
|         | A               | B     | C     | D    | E    | F    | G    | H    | J   |
| M13     | 120.0           | 99.0  | 70.0  | 38.0 | 27.0 | 8.0  | 26.0 | 12.0 | 8.7 |
| M23     | 262.0           | 231.0 | 167.0 |      | 38.5 | 19.0 |      | 14.0 |     |
| N15     | 120.0           | 100.0 | 79.0  |      | 41.0 | 16.5 |      | 15.0 |     |

##### Special Tag Arrangement

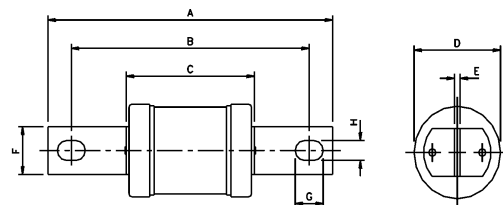


| Part No | Dimensions (mm) |      |      |      |      |     |      |      |     |
|---------|-----------------|------|------|------|------|-----|------|------|-----|
|         | A               | B    | C    | D    | E    | F   | G    | H    | J   |
| N20     | 110.0           | 92.0 | 75.0 | 22.0 | 44.5 | 8.8 | 49.0 | 49.0 | 6.4 |
| P20     | 111.0           |      | 76.0 |      |      |     | 47.0 | 59.0 |     |
| R20     | 112.0           | 94.0 | 77.0 |      |      |     | 62.0 | 74.0 |     |
| S20     | 112.0           |      | 77.0 |      |      |     | 66.0 | 83.0 |     |

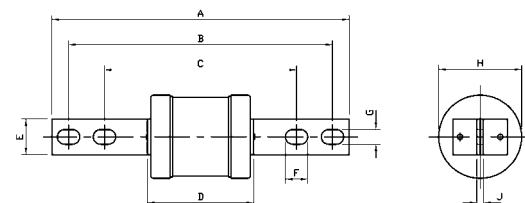
### Catalogue Numbers

| Tag Types          | Rating (A) | Catalogue Number | Fixing Centres (mm) | Unit Packing |
|--------------------|------------|------------------|---------------------|--------------|
| Offset Bolted Tag  | 125        | 125M13           | 99                  | 5            |
|                    | 160        | 160M13           |                     |              |
|                    | 200        | 200M13           |                     |              |
|                    | 250        | 250M13           | 231                 | 1            |
|                    | 315        | 315M13           |                     |              |
|                    | 125        | 125M23           |                     |              |
|                    | 160        | 160M23           | 100                 | 1            |
|                    | 200        | 200M23           |                     |              |
|                    | 250        | 250N15           |                     |              |
| Centre Bolted Tag  | 315        | 315N15           | 113                 | 1            |
|                    | 355        | 355P35           |                     |              |
|                    | 400        | 400P35           | 133/184             | 1            |
|                    | 450        | 450R40           | 133/184             | 1            |
|                    | 500        | 500R40           |                     |              |
| Special Offset Tag | 125        | 125N20           | 92.5                | 1            |
|                    | 160        | 160N20           |                     |              |
|                    | 200        | 200N20           |                     |              |
|                    | 250        | 250N20           |                     |              |
|                    | 315        | 315N20           |                     |              |
|                    | 355        | 355P20           | 92.5                | 1            |
|                    | 400        | 400P20           |                     |              |
|                    | 450        | 450R20           | 94                  | 1            |
|                    | 500        | 500R20           |                     |              |
|                    | 560        | 560R20           |                     |              |
|                    | 630        | 630R20           |                     |              |
|                    | 710        | 710S20           | 94                  | 1            |
|                    | 800        | 800S20           |                     |              |

##### Centre Bolted Tag



| Part No | Dimensions (mm) |     |      |      |     |      |      |     |
|---------|-----------------|-----|------|------|-----|------|------|-----|
|         | A               | B   | C    | D    | E   | F    | G    | H   |
| N34     | 135.0           | 111 | 74.5 | 66.5 | 5.0 | 25.4 | 12.5 | 9.5 |



| Part No | Dimensions (mm) |     |     |      |      |      |      |      |     |
|---------|-----------------|-----|-----|------|------|------|------|------|-----|
|         | A               | B   | C   | D    | E    | F    | G    | H    | J   |
| P35     | 210.0           | 184 | 133 | 75.0 | 19.0 | 16.0 | 10.0 | 59.0 | 5.0 |
| R40     |                 |     |     | 81.0 |      |      |      | 74.0 |     |

Data Sheets: M13 & M23: 4153 / N15: 4164 / N34: 4165 / P35: 4161 / R40: 4162 / N20: 4166 / P20: 4167 / R20: 4168 / S20: E5785045

## Street Lighting Applications to BS88

### Offset Bolted Tags 240 - 550V / 2 - 32A

#### Specifications

**Description:** Fuse Links for general street lighting applications with Q1 fusing factor - general purpose (gG)

**Applications:** Street lighting applications

#### Ratings:

- Volts: - 240 - 415V ac  
Amps: - 2 - 32A  
IR - 33kA @ 240V ac (STD)  
- 80kA @ 415 / 550V ac (SMD)

**Agency information:** Meets BS88: Part 1 & 2 (1988), IEC 269: Parts 1 (1986)

**RoHS Compliant**

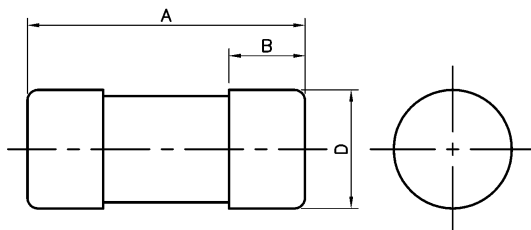
### SMD 415V ac (gG) / 2 - 32A

#### Catalogue Numbers

| Rating (A) | Part Reference | Unit Packing |
|------------|----------------|--------------|
| 2          | SMD2           | 20           |
| 4          | SMD4           |              |
| 6          | SMD6           |              |
| 10         | SMD10          |              |
| 16         | SMD16          |              |
| 20         | SMD20          |              |
| 25         | SMD25          |              |
| 32         | SMD32          |              |



#### Dimensions



| Part No | Dimensions (mm) |   |   |      |
|---------|-----------------|---|---|------|
|         | A               | B | C | D    |
| SMD     | 29.0            | - | - | 12.7 |

Also available as Offset Bladed Tags "SSD", see page 10

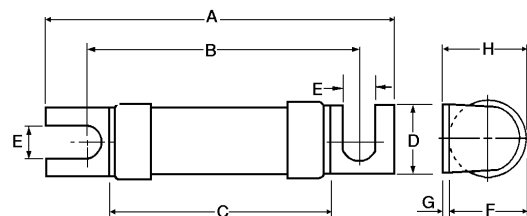
### STD 240V ac / 2 - 32A

#### Catalogue Numbers

| Rating (A) | Part Reference | Unit Packing |
|------------|----------------|--------------|
| 2          | STD2           | 20           |
| 4          | STD4           |              |
| 6          | STD6           |              |
| 10         | STD10          |              |
| 16         | STD16          |              |
| 20         | STD20          |              |
| 25         | STD25          |              |
| 32         | STD32          |              |



#### Dimensions



| Part No | Dimensions (mm) |    |      |      |     |      |     |      |
|---------|-----------------|----|------|------|-----|------|-----|------|
|         | A               | B  | C    | D    | E   | F    | G   | H    |
| STD     | 47.0            | 35 | 24.0 | 11.0 | 4.7 | 12.0 | 0.8 | 13.0 |

Data Sheet: 4123

## Utility Applications to BS88

### House Service Cut-Out Fuse Links 415V / 5 - 100A

#### Specifications

**Description:** Cylindrical Fuse Links for electrical utilities to BS Standard

#### Ratings:

Volts: - 415V  
Amps: - 5 - 100A  
IR - 33kA @ 415V

**Applications:** Fuses to use in connection with House Service cut-outs.

**Agency Information:** ASTA certified and tested in accordance to BS 1361

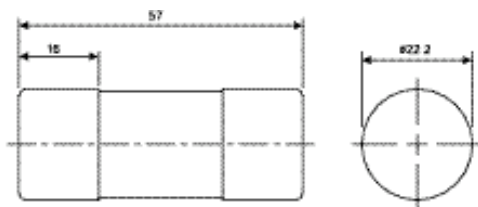
#### RoHS Compliant

#### Catalogue Numbers

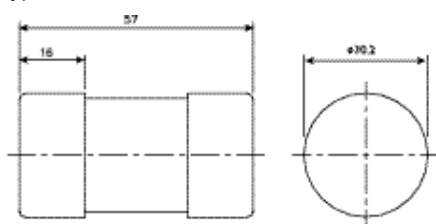
| Rating<br>(A) | Catalogue Number |         | Unit Packing |
|---------------|------------------|---------|--------------|
|               | Diameter         |         |              |
|               | 22mm             | 30mm    |              |
| 5             | 5KR85            | -       | 20           |
| 10            | 10KR85           | -       |              |
| 15            | 15KR85           | -       |              |
| 20            | 20KR85           | -       |              |
| 25            | 25KR85           | -       |              |
| 30            | 30KR85           | 30LR85  |              |
| 40            | 40KR85           | 40LR85  |              |
| 45            | 45KR85           | -       |              |
| 50            | 50KR85           | 50LR85  |              |
| 60            | 60KR85           | 60LR85  |              |
| 70            | 70KR85           | -       |              |
| 80            | 80KR85           | 80LR85  |              |
| 90            | 90KR85           | -       |              |
| 100           | 100KR85          | 100LR85 |              |

#### Dimensions

##### KR85 Type



##### LR85 Type



Data Sheet KR85: 4185  
Data Sheet LR85: 4186

### J Type Fuse Links to BS88: Part 5 Cylindrical Type 415V / 20 - 250A

#### Specifications

**Description:** Cylindrical type fuses designed for use with wedge type fuse carriers on BS applications

#### Ratings:

Volts: - 415V  
Amps: - 20 - 250A  
IR - 80kA @ 415V

**Applications:** For use by Electrical Authorities in distribution pillars, open type substation boards, heavy duty cut-outs, and underground connection boxes. Cylindrical type to be used in pole or wall mounted outdoor service fuse units.

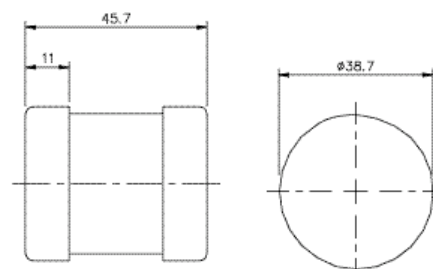
**Agency information:** ASTA certified and tested to BS88: Part 5

#### RoHS Compliant

#### Catalogue Numbers:

| Rating<br>(A) | Catalogue Number | Unit Packing |
|---------------|------------------|--------------|
| 20            | 20MJ25-6         | 20           |
| 32            | 32MJ25-6         |              |
| 40            | 40MJ25-6         |              |
| 63            | 63MJ25-6         |              |
| 80            | 80MJ25-6         |              |
| 100           | 100MJ25-6        |              |
| 125           | 125MJ25-6        |              |
| 160           | 160MJ25-6        |              |
| 200           | 200MJ25-6        |              |
| 250           | 250MJ25-6        |              |

#### Dimensions



Data Sheet: 4177



## Utility Applications to BS88

### J Type Fuse Links to BS88: Part 5 Slotted/Non Slotted Types 415V / 20 - 800A

#### Specifications

**Description:** Slotted type fuses designed for use with wedge type fuse carriers on BS applications

#### Ratings:

Volts: - 415V  
Amps: - 20 - 630A (Slotted Type)  
800A (Non Slotted Type)  
IR - 80kA @ 415V

**Applications:** For use by Electrical Authorities in distribution pillars, open type substation boards, heavy duty cut-outs, and underground connection boxes.

**Agency information:** ASTA certified and tested BS88: Part 5

**RoHS Compliant**

#### Dimensions

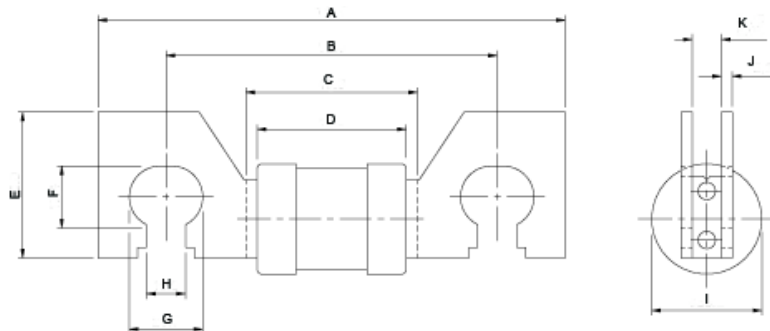


### Catalogue Numbers

| Rating (A) | Slotted Fixing Center |           |           | Non Slotted | Unit Packing |
|------------|-----------------------|-----------|-----------|-------------|--------------|
|            | 76mm                  | 82mm      | 92mm      |             |              |
| 20         | -                     | -         | 20MJ31-8  | -           | 10           |
| 25         | -                     | -         | 25MJ31-8  | -           |              |
| 32         | -                     | 32MJ30-8  | 32MJ31-8  | -           |              |
| 40         | -                     | 40MJ30-8  | 40MJ31-8  | -           |              |
| 50         | -                     | 50MJ30-8  | 50MJ31-8  | -           |              |
| 63         | 63MJ29-6              | 63MJ30-8  | 63MJ31-8  | -           |              |
| 80         | 80MJ29-6              | 80MJ30-7  | 80MJ31-7  | -           |              |
| 100        | 100MJ29-6             | 100MJ30-7 | 100MJ31-7 | -           |              |
| 125        | -                     | 125MJ30-7 | 125MJ31-7 | -           |              |
| 160        | 160MJ29-6             | 160MJ30-7 | 160MJ31-7 | -           |              |
| 200        | 200MJ29-6             | 200MJ30-7 | 200MJ31-7 | -           |              |
| 250        | 250MJ29-6             | 250MJ30-7 | 250MJ31-7 | -           |              |
| 315        | -                     | 315MJ30-7 | 315MJ31-7 | -           |              |
| 355        | -                     | 355PJ30-7 | 355PJ31-7 | -           |              |
| 400        | -                     | 400PJ30-7 | 400PJ31-7 | -           |              |
| 450        | -                     | -         | 450RJ31-7 | -           |              |
| 500        | -                     | -         | 500RJ31-7 | -           |              |
| 560        | -                     | -         | 560SJ31-6 | -           |              |
| 630        | -                     | -         | 630SJ31-6 | -           |              |
| 800        | -                     | -         | -         | 800SJ28     |              |

| Type                | A     | B  | C    | D    | E    | F    | G    | H    | I    | J   | K         |
|---------------------|-------|----|------|------|------|------|------|------|------|-----|-----------|
| MJ30-8              | 110   | 82 | 45.2 | 40.5 | 30   | 14.8 | 17.5 | 9.8  | 30.9 | 2.4 | 6.45/6.53 |
| MJ30-7 (Up to 200A) | 110   | 82 | 45.2 | 40.5 | 30   | 14.8 | 17.5 | 9.8  | 30.9 | 2.4 | 6.45/6.53 |
| MJ30-7 (315-400A)   | 110   | 82 | 44.8 | 40   | 30   | 14.4 | 17.5 | 9.8  | 38   | 2.4 | 6.45/6.53 |
| MJ31-7 (Up to 200A) | 131   | 92 | 46.8 | 40.5 | 41   | 17.4 | 20.7 | 10.9 | 30.8 | 3.2 | 8.05/8.73 |
| MJ31-7 (315-400A)   | 131   | 92 | 46.4 | 40   | 41   | 17.4 | 20.7 | 10.2 | 38.1 | 3.2 | 8.05/8.73 |
| PJ30-7              | 110   | 82 | 44.8 | 40   | 30   | 14.4 | 17.5 | 9.8  | 38   | 2.4 | 6.45/6.53 |
| PJ31-7              | 131   | 92 | 46.4 | 40   | 41   | 17.4 | 20.7 | 10.2 | 38.1 | 3.2 | 8.05/8.73 |
| RJ31-7              | 131   | 92 |      | 45   | 38   | 16.5 | 15.5 | 10.9 | 49.1 | 3.2 | 8.05/8.73 |
| SJ31-6              | 128.5 | 92 |      | 44.5 | 38.1 | 16.5 | 20.6 | 11   | 73.3 | 3.2 | 8.05/8.73 |
| SJ28                | 128.5 | 92 |      | 44.5 | 38.1 | 16.5 | 20.5 |      | 73.3 | 3.2 | 8.05/8.73 |

Slotted Type (MJ31-7 up to 200A)



Data Sheets: MJ30-8: 4178A / MJ30-7: 4178B / MJ31-7 or 8: 4180 / PJ31: 4181 / RJ: 4182 / SJ: 4183

## Joint NATO Reference System

### Cylindrical/Offset Bolted Tag 440V / 0.25 - 150A

#### Specifications

**Description:** Cylindrical Fuse links originally developed for the Admiralty but are now used in a wide variety of applications



#### Ratings:

Volts: - 440V  
Amps: - 0.25 - 100A (Cylindrical)  
- 0.5 - 150A (Offset Bolted Tag)  
IR - 33kA @ 440Vac

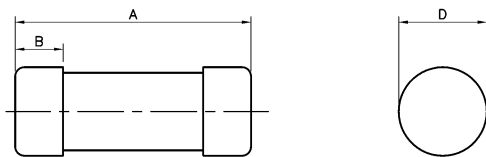
**Applications:** defence, aeronautical, allied industries, electronics

**Agency information:** Defence standard 59-96 (superceding DEF 63). Tested to BS88 at 440V/33kA

#### RoHS Compliant

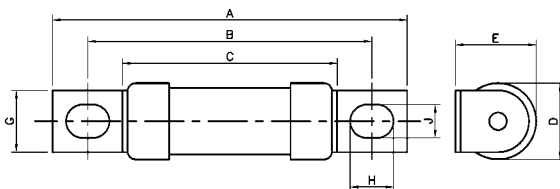
#### Dimensions

##### Cylindrical



| Size | A     | D     | B    |
|------|-------|-------|------|
| 0    | 32.05 | 6.37  | 5.55 |
| 1    | 33.6  | 11.86 | 7.14 |
| 2    | 37.6  | 16.7  | 8.71 |
| 3    | 47.9  | 33.3  | 11.9 |

##### Offset Bolted Tag



| Size | A     | B     | C    | D     |
|------|-------|-------|------|-------|
| 1    | 56.03 | 44.65 | 33.9 | 11.96 |
| 2    | 70.7  | 55.84 | 37.4 | 16.7  |
| 3    | 88.6  | 69.77 | 47.4 | 33.3  |

#### Catalogue Numbers

| Size | Rating (A) | Cylindrical | Offset Bolted                                                                                                        | Unit Packing |
|------|------------|-------------|----------------------------------------------------------------------------------------------------------------------|--------------|
| 0    | 0.25       | 059-0107    | N/A                                                                                                                  | 100          |
|      | 0.5        | 059-0108    |                                                                                                                      |              |
|      | 1          | 059-0109    |                                                                                                                      |              |
|      | 2          | 059-0110    |                                                                                                                      |              |
|      | 3          | 059-0111    |                                                                                                                      |              |
|      | 5          | 059-0112    |                                                                                                                      |              |
|      | 7          | 059-0113    |                                                                                                                      |              |
|      | 10         | 059-9925    |                                                                                                                      |              |
| 1    | 15         | 059-9926    | 059-0114<br>059-0115<br>059-0116<br>059-0117<br>059-0118<br>059-0119<br>059-0120<br>059-0121<br>011-9679<br>012-0140 | 25           |
|      | 0.5        | 059-0140    |                                                                                                                      |              |
|      | 1          | 059-0141    |                                                                                                                      |              |
|      | 2          | 059-0142    |                                                                                                                      |              |
|      | 3          | 059-0143    |                                                                                                                      |              |
|      | 5          | 059-0144    |                                                                                                                      |              |
|      | 7          | 059-0145    |                                                                                                                      |              |
|      | 10         | 059-0146    |                                                                                                                      |              |
|      | 15         | 059-0147    |                                                                                                                      |              |
|      | 20         | 011-9483    |                                                                                                                      |              |
|      | 30         |             |                                                                                                                      |              |
|      |            |             |                                                                                                                      |              |
| 2    | 10         | 059-0148    | 059-0122                                                                                                             | 25           |
|      | 15         | 059-0149    | 059-0123                                                                                                             |              |
|      | 20         | 059-0150    | 059-0124                                                                                                             |              |
|      | 30         | 059-0151    | 059-0125                                                                                                             |              |
|      | 40         |             | 059-0067                                                                                                             |              |
|      | 50         |             | 011-9127                                                                                                             |              |
| 3    | 60         |             | 012-0141                                                                                                             | 25           |
|      | 40         | 059-0152    | 059-0126                                                                                                             |              |
|      | 50         | 059-0153    | 059-0127                                                                                                             |              |
|      | 80         | 059-0154    | 059-0128                                                                                                             |              |
|      | 100        | 059-0155    | 059-0129                                                                                                             |              |
|      | 125        |             | 011-9128                                                                                                             |              |
|      | 160        |             | 011-9129                                                                                                             |              |

## BS88 Fuseholders

### CM

### CAMASTER HRC Fuseholder 690V ac / 20 - 400A



#### Specifications

**Description:** Fully shrouded fuse bases with unique cam action system for BS88 Fuse link applications.

#### Ratings:

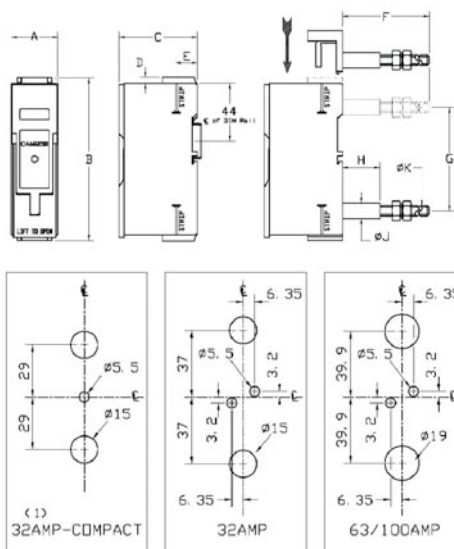
Volts: - 660V ac  
Amps: - 20, 32 (Compact) 32, 63 and 100A

**Applications:** Lighting and heating equipment, circuit protection, Motor protection, Control equipment circuit protection

**Agency Information:** CE Compliance to BS88, EN IEC 60269. For UL and CSA approved versions also available, consult Cooper Bussmann®

#### RoHS Compliant

#### Dimensions



| Cat. No | Max cable mm <sup>2</sup> | Dimensions (mm) |       |       |      |      |      |      |      |      |     |
|---------|---------------------------|-----------------|-------|-------|------|------|------|------|------|------|-----|
|         |                           | A               | B     | C     | D    | E    | F    | G    | H    | J    | K   |
| CM20F   | 16                        | 25.4            | 93.7  | 60    | 3.2  | 17.5 | 66.0 | 58.0 | 28.6 | 11.9 | M6  |
| CM32FC  | 16                        | 25.4            | 93.7  | 60    | 3.2  | 17.5 | 66.0 | 58.0 | 28.6 | 11.9 | M6  |
| CM32F   | 16                        | 31.8            | 117.5 | 60    | 3.2  | 17.5 | 66.0 | 74.0 | 28.6 | 11.9 | M6  |
| CM63F   | 70                        | 35.6            | 125   | 60    | 4.75 | 16.4 | 86.5 | 81.0 | 28.6 | 11.9 | M8  |
| CM100F  | 70                        | 35.6            | 125   | 60    | 4.75 | 16.4 | 86.5 | 81.0 | 28.6 | 11.9 | M8  |
| 200DF   | 95                        | 70              | 193   | 149   | 17.5 | 35.6 | 8    | 138  | 30   | 24   | M12 |
| 400EF   | 240                       | 98.4            | 254   | 192.1 | 31.8 | 36.5 | -    | -    | -    | -    | -   |

#### Catalogue Numbers

| Rating (A) | Catalogue Number   | Recommended Fuse Link | Unit Packing |
|------------|--------------------|-----------------------|--------------|
| 20         | CM20F              | NITD                  | 10           |
| 32         | CM32FC             | NITD                  | 10           |
| 32         | CM32F              | AAO                   | 10           |
| 63         | CM63F              | BAO                   | 10           |
| 100        | CM100F             | OSD                   | 5            |
| 200*       | 200DF              | DD                    |              |
|            | 200DFBS Front/Back |                       |              |
|            | 200DBS Back/Back   |                       |              |
| 400*       | 400EF              | ED                    |              |

\* 200A & 400A do not have the CAM action

#### Accessories Numbers

| Accessory                | Rating (A) | Catalogue No | Unit Packing |
|--------------------------|------------|--------------|--------------|
| Back Stud                | 32         | 32BSC        | 10           |
|                          | 32         | 32BS         | 10           |
|                          | 63/100     | 63/100BS     | 5            |
| Ganging Links            |            | GLP          | 1 set        |
| Neon Indicator           | 90-415V ac | NI           | 3            |
| Lockable Safety Carriers |            | 32LSCC       | 3            |
|                          |            | 32LSC        | 3            |
|                          |            | 63/100LSC    | 3            |
| Neutral Links            | 32         | 32CMLC       | 1            |
|                          | 32         | 32CML        |              |
|                          | 63/100     | 63/100CML    |              |
| Security Clip            |            | CMSC         | 20           |

#### Notes:

1 - Type CM32FC is also available rated at 20A, catalogue number CM20F

2 - For colours other than Black (standard) add the appropriate letter code: W = White; G = Green, GY = Grey

3 - Care must be taken when fitting solid single or stranded cables of small cross-sectional area to ensure correct clamping. Small Multi-stranded cables must be terminated with bootlace ferrules to ensure correct clamping. Bootlace ferrules should not be used on standard power cables or high current applications. If in doubt please consult Cooper Bussmann®

4 - A +5% tolerance should be allowed on dimensions when cutting metal work to fit CAMaster fuse holders

## BS88 Fuseholders

### NNS, ENS Safeloc Fuseholder 660V ac / 32 - 63A

#### Specifications

**Description:** Fuseholder to be used with BS88 Fuse links for bolted panel mounting or DIN rail.

#### Ratings:

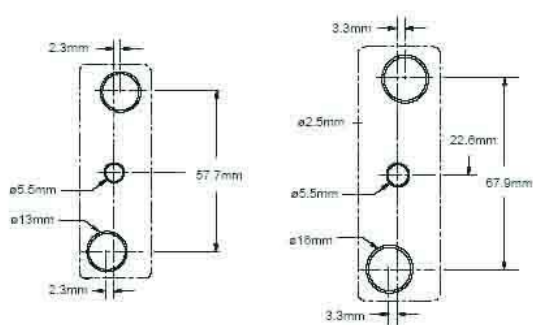
Volts: - 550V ac, 415V ac (63A)  
Amps: - 32, 63A

**Applications:** Lighting and heating equipment, circuit protection, Motor protection, Control equipment circuit protection

**Agency Information:** CE Compliance to BS88, EN IEC 60269

#### RoHS Compliant

#### Dimensions



| Rating (A) | Part No | Max Cable mm <sup>2</sup> | Dimensions (mm) |      |      |     |      |      |      |      |      |    |
|------------|---------|---------------------------|-----------------|------|------|-----|------|------|------|------|------|----|
|            |         |                           | A               | B    | C    | D   | E    | F    | G    | H    | J    | K  |
| 32         | NNS     | 16                        | 25.4            | 80.3 | 48.5 | 2.3 | 16.0 | 39.2 | 57.7 | 17.0 | 9.7  | M6 |
| 63         | ENS     | 35                        | 29.1            | 90.0 | 55.0 | 3.3 | 17.7 | 75.0 | 67.9 | 39.2 | 11.0 | M8 |

#### Catalogue Numbers

| Rating (A) | Catalogue Number | Available Variants               | Required Fuse Link | Unit Packing |
|------------|------------------|----------------------------------|--------------------|--------------|
| 32         | 32NNSF           | Front connected/ Front connected | NSD                | 10           |
|            | 32NNSBS          | Back stud/ Back stud             |                    | 10           |
|            | 32NNSFBS         | Front connected/ Back stud       |                    | 10           |
|            | 32NNL            | Neutral links                    |                    | 10           |
| 63         | 63ENSF           | Front connected/ Front connected | ESD                | 5            |
|            | 63ENSBS          | Back stud/ Back stud             |                    | 5            |
|            | 63ENSFBS         | Front connected/ Back stud       |                    | 5            |
|            | 63ENL            | Neutral links                    |                    | 1            |

#### Notes:

1 - For colours other than Black (standard), add the appropriate letter code: W = White, G = Green, GY = Grey, at the end of the catalogue reference.

2 - Security seal (ref. 32551) available for 32A Safeloc

3 - Care must be taken when fitting solid single or stranded cables of small cross-sectional area to ensure correct clamping. Small Multi-stranded cables must be terminated with bootlace ferrules to ensure correct clamping. Bootlace ferrules should not be used on standard power cables or high current applications. If in doubt please consult Cooper Bussmann®

4 - A +5% tolerance should be allowed on dimensions when cutting metal work to fit Safeloc fuse holders

## Cylindrical Domestic Fuses

**Class gG (gF)**  
**250 - 400V / 0.5 - 32A**  
**Sizes: 6x23, 8x23, 10x25**  
**8x31, 10x31, 8x36**  
**10x38**



### Specifications

**Description:** Cylindrical fuses for domestic protection. Available in types with and without striker indicator.

### Ratings:

- Volts: - 250V ac (6x23, 8x23, 10x25)  
400V ac (8x31, 10x31, 8x36, 10x38)
- Amps: - 0.5 - 32A
- IR - 6kA (6x23, 8x23, 10x25)  
- 20kA (8x31, 10x31, 8x36, 10x38)

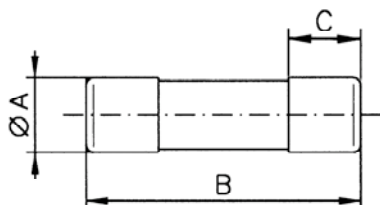
**Applications:** Protection of power lines, heating circuits, lighting circuits, electrical domestic appliances and domestic electricity meters

**Agency Information:** NF C 62203, EN IEC 60269-3, NF marking (see references in bold in catalogue numbers chart)

### RoHS Compliant

### Dimensions

| Size    | A    | B    | C   |
|---------|------|------|-----|
| 6 x 23  | 6.3  | 23   | 5   |
| 8 x 23  | 8.5  | 23   | 5   |
| 8 x 31  | 8.5  | 31.5 | 6.3 |
| 8 x 36  | 8.5  | 36   | 6.3 |
| 10 x 25 | 10.3 | 25.8 | 6.3 |
| 10 x 31 | 10.3 | 31.5 | 6.3 |
| 10 x 38 | 10.3 | 38   | 10  |



### Catalogue Numbers



| Size  | Current (A) | References without Indicator | References with Indicator | Voltage (V) | Interrupting Rating (kA) | UP* |
|-------|-------------|------------------------------|---------------------------|-------------|--------------------------|-----|
| 6x23  | 2           | CD0623G2                     |                           | 250V        | 6kA                      | 10  |
|       | 4           | CD0623G4                     |                           |             |                          |     |
|       | 6           | CD0623G6                     |                           |             |                          |     |
|       | 10          | CD0623G10                    |                           |             |                          |     |
| 8x23  | 2           | CD0823G2                     | CD0823G2I                 | 250V        | 6kA                      | 10  |
|       | 4           | CD0823G4                     | CD0823G4I                 |             |                          |     |
|       | 6           | CD0823G6                     | CD0823G6I                 |             |                          |     |
|       | 10          | <b>CD0823G10</b>             | <b>CD0823G10I</b>         |             |                          |     |
|       | 16          | CD0823G16                    | CD0823G16I                |             |                          |     |
| 10x25 | 6           | CD1025G6                     | CD1025G6I                 | 250V        | 6kA                      | 10  |
|       | 10          | CD1025G10                    | CD1025G10I                |             |                          |     |
|       | 16          | <b>CD1025G16</b>             | <b>CD1025G16I</b>         |             |                          |     |
| 8x31  | 0.5         | CD0831G0.5                   | -                         | 400V        | 20kA                     | 10  |
|       | 1           | CD0831G1                     | -                         |             |                          |     |
|       | 2           | CD0831G2                     | CD0831G2I                 |             |                          |     |
|       | 4           | CD0831G4                     | CD0831G4I                 |             |                          |     |
|       | 6           | CD0831G6                     | CD0831G6I                 |             |                          |     |
|       | 8           | CD0831G8                     | CD0831G8I                 |             |                          |     |
|       | 10          | CD0831G10                    | CD0831G10I                |             |                          |     |
|       | 12          | CD0831G12                    | CD0831G12I                |             |                          |     |
|       | 16          | CD0831G16                    | CD0831G16I                |             |                          |     |
|       | 20          | <b>CD0831G20</b>             | <b>CD0831G20I</b>         |             |                          |     |
|       |             |                              |                           |             |                          |     |
| 10x31 | 16          | CD1031G16                    | CD1031G16I                | 400V        | 20kA                     | 10  |
|       | 20          | CD1031G20                    | CD1031G20I                |             |                          |     |
|       | 25          | <b>CD1031G25</b>             | <b>CD1031G25I</b>         |             |                          |     |
|       |             |                              |                           |             |                          |     |
| 8x36  | 2           | CD0836G2                     | CD0836G2I                 | 400V        | 20kA                     | 12  |
|       | 4           | CD0836G4                     | CD0836G4I                 |             |                          |     |
|       | 6           | CD0836G6                     | CD0836G6I                 |             |                          |     |
|       | 10          | CD0836G10                    | CD0836G10I                |             |                          |     |
|       | 16          | CD0836G16                    | CD0836G16I                |             |                          |     |
|       | 20          | CD0836G20                    | CD0836G20I                |             |                          |     |
|       | 25          | CD0836G25                    | CD0836G25I                |             |                          |     |
|       | 32          | CD0836G32                    | CD0836G32I                |             |                          |     |
|       |             |                              |                           |             |                          |     |
| 10x38 | 25          | CD1038G25                    | CD1038G25I                | 400V        | 20kA                     | 10  |
|       | 32          | <b>CD1038G32</b>             | <b>CD1038G32I</b>         |             |                          |     |

\*UP = Unit Packing

**NFC 60203**

## Domestic Fuses

### AD

440V ac / 15 - 90A

Sizes: 10x38, 14x51,  
22x58 (cylindrical  
fuses)  
00 (Knife fuses)



### Catalogue Numbers

| Size  | Current (A) | Catalogue Number | Voltage (V) | Unit Packing |
|-------|-------------|------------------|-------------|--------------|
| 10x38 | 15          | CA10D15          | 440V        | 10           |
| 14x51 | 30          | CA14D30          |             |              |
| 22x58 | 15          | CA22D15          |             |              |
|       | 30          | CA22D30          | 440V        | 3            |
|       | 45          | CA22D45          |             |              |
|       | 60          | CA22D60          |             |              |
| 0     | 30          | 30NH00AD         | 440V        | 3            |
|       | 45          | 45NH00AD         |             |              |
|       | 60          | 60NH00AD         |             |              |
|       | 90          | 90NH00AD         |             |              |

### Specifications

**Description:** fuse cartridge type AD for fitting to circuit breakers on low-voltage branch circuits.

### Ratings:

- Volts: - 440V ac  
Amps: - 15 - 60A (Cylindrical fuses)  
- 30 - 90A (Fuse size 00)  
IR - 20kA (size 10x38)  
- 32kA (size 14x51, 22x58, 00)

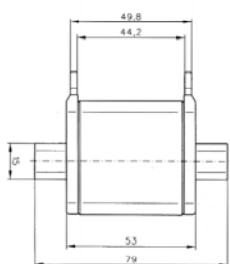
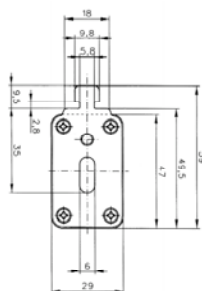
**Applications:** Fitting for circuit breakers in public branch panels

**Agency Information:** Conform to standards NF C 62-921, EN IEC 60269

### RoHS Compliant

### Dimensions

| Sizes | A    | B  | C  |
|-------|------|----|----|
| 10x38 | 10.3 | 38 | 10 |
| 14x51 | 14.3 | 51 | 13 |
| 22x58 | 22.2 | 58 | 16 |



## Cylindrical Industrial Fuses

**Class gG**  
**400 - 690V / 0.5 - 125A**  
**Sizes: 8x31, 10x38,**  
**14x51, 22x58**



### Specifications

**Description:** Cylindrical fuses for gG Industrial protection (general applications). Available with or without indicators and visual fuse activation indicator. Striker fitted to activate an auxiliary contact.

### Ratings:

Volts: - 400, 500, 690V ac  
Amps: - 0.25 - 125A  
IR - 20kA - 400V ac (size 8 x 31)  
- 120kA - 400 and 500V ac  
- 80 kA - 690V ac

**Applications:** Protection of electrical distribution circuits and electrical appliances (with the exception of electrical motors)

**Agency Information:** EN IEC 60269

**RoHS Compliant**

### Dimensions

| Size    | A    | B    | C   | D | E |
|---------|------|------|-----|---|---|
| 8 x 31  | 8.5  | 31.5 | 6.3 |   |   |
| 10 x 38 | 10.3 | 38   | 10  |   |   |
| 14 x 51 | 14.3 | 51   | 13  | 8 | 4 |
| 22 x 58 | 22.2 | 58   | 16  | 8 | 4 |

### Catalogue Numbers

| Size    | Current (A) | References without Indicator | References with Indicator | References with Striker | Voltage (V) | Disconnection power (kA) | UP* |
|---------|-------------|------------------------------|---------------------------|-------------------------|-------------|--------------------------|-----|
| 8 x 31  | 0.5         | C08G0.5                      | -                         |                         | 400V        | 20kA                     | 10  |
|         | 1           | C08G1                        | -                         |                         |             |                          |     |
|         | 2           | C08G2                        | C08G2I                    |                         |             |                          |     |
|         | 4           | C08G4                        | C08G4I                    |                         |             |                          |     |
|         | 6           | C08G6                        | C08G6I                    |                         |             |                          |     |
|         | 8           | C08G8                        | C08G8I                    |                         |             |                          |     |
|         | 10          | C08G10                       | C08G10I                   |                         |             |                          |     |
|         | 12          | C08G12                       | C08G12I                   |                         |             |                          |     |
|         | 16          | C08G16                       | C08G16I                   |                         |             |                          |     |
| 10 x 38 | 20          | C08G20                       | C08G20I                   |                         | 500V        | 120kA                    | 10  |
|         | 0.5         | C10G0.5                      | -                         |                         |             |                          |     |
|         | 1           | C10G1                        | -                         |                         |             |                          |     |
|         | 2           | C10G2                        | C10G2I                    |                         |             |                          |     |
|         | 4           | C10G4                        | C10G4I                    |                         |             |                          |     |
|         | 6           | C10G6                        | C10G6I                    |                         |             |                          |     |
|         | 8           | C10G8                        | C10G8I                    |                         |             |                          |     |
|         | 10          | C10G10                       | C10G10I                   |                         |             |                          |     |
|         | 12          | C10G12                       | C10G12I                   |                         |             |                          |     |
|         | 16          | C10G16                       | C10G16I                   |                         |             |                          |     |
|         | 20          | C10G20                       | C10G20I                   |                         |             |                          |     |
|         | 25          | C10G25                       | C10G25I                   |                         |             |                          |     |
|         | 32          | C10G32                       | C10G32I                   |                         |             |                          |     |
| 14 x 51 |             |                              |                           |                         | 400V        |                          |     |
|         | 2           | C14G2                        | C14G2I                    | C14G2S                  | 690V        | 80kA                     | 10  |
|         | 4           | C14G4                        | C14G4I                    | C14G4S                  |             |                          |     |
|         | 6           | C14G6                        | C14G6I                    | C14G6S                  |             |                          |     |
|         | 8           | C14G8                        | C14G8I                    | C14G8S                  |             |                          |     |
|         | 10          | C14G10                       | C14G10I                   | C14G10S                 |             |                          |     |
|         | 12          | C14G12                       | C14G12I                   | C14G12S                 |             |                          |     |
|         | 16          | C14G16                       | C14G16I                   | C14G16S                 |             |                          |     |
|         | 20          | C14G20                       | C14G20I                   | C14G20S                 |             |                          |     |
|         | 25          | C14G25                       | C14G25I                   | C14G25S                 |             |                          |     |
|         | 32          | C14G32                       | C14G32I                   | C14G32S                 | 500V        | 120kA                    |     |
|         | 40          | C14G40                       | C14G40I                   | C14G40S                 |             |                          |     |
|         | 50          | C14G50                       | C14G50I                   | C14G50S                 |             |                          |     |
|         |             |                              |                           |                         | 400V        |                          |     |
| 22 x 58 | 2           | C22G2                        | C22G2I                    |                         | 690V        | 80kA                     | 10  |
|         | 4           | C22G4                        | C22G4I                    | C22G4S                  |             |                          |     |
|         | 6           | C22G6                        | C22G6I                    | C22G6S                  |             |                          |     |
|         | 8           | C22G8                        | C22G8I                    | C22G8S                  |             |                          |     |
|         | 10          | C22G10                       | C22G10I                   | C22G10S                 |             |                          |     |
|         | 12          | C22G12                       | C22G12I                   | C22G12S                 |             |                          |     |
|         | 16          | C22G16                       | C22G16I                   | C22G16S                 |             |                          |     |
|         | 20          | C22G20                       | C22G20I                   | C22G20S                 |             |                          |     |
|         | 25          | C22G25                       | C22G25I                   | C22G25S                 |             |                          |     |
|         | 32          | C22G32                       | C22G32I                   | C22G32S                 |             |                          |     |
|         | 40          | C22G40                       | C22G40I                   | C22G40S                 |             |                          |     |
|         | 50          | C22G50                       | C22G50I                   | C22G50S                 |             |                          |     |
|         | 63          | C22G63                       | C22G63I                   | C22G63S                 |             |                          |     |
|         | 80          | C22G80                       | C22G80I                   | C22G80S                 |             |                          |     |
|         | 100         | C22G100                      | C22G100I                  | C22G100S                | 500V        | 120kA                    |     |
|         | 125         | C22G125                      | C22G125I                  | C22G125S                |             |                          |     |
|         |             |                              |                           |                         | 400V        |                          |     |

\*UP: Unit Packing

## Cylindrical Industrial Fuses

### Class aM

**400 - 690V / 0.16 - 125A**

**Sizes: 8 x 31, 10 x 38,  
14 x 51, 22 x 58**

### Specifications

**Description:** Cylindrical fuses for aM industrial protection range (protection of motors). Available in types without indicators, with visual fuse activation indicator and plunger for activation of an auxiliary contact.

### Ratings:

Volts: - 440, 500, 690V ac

Amps: - 0.16 - 125A

IR - 20kA - 400V ac (size 8 x 31)

120kA - 400 and 500V ac

80kA - 690Vac

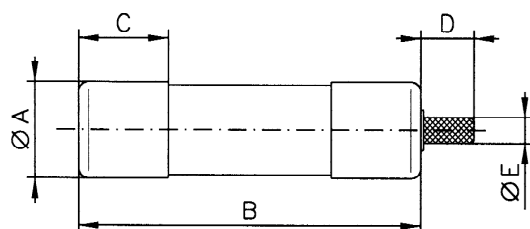
**Applications:** Direct protection of motors

**Agency information:** Conform to standard EN IEC 60269

**RoHS Compliant**

### Dimensions

| Size    | A    | B    | C   | D | E |
|---------|------|------|-----|---|---|
| 8 x 31  | 8.5  | 31.5 | 6.3 |   |   |
| 10 x 38 | 10.3 | 38   | 10  |   |   |
| 14 x 51 | 14.3 | 51   | 13  | 8 | 4 |
| 22 x 58 | 22.2 | 58   | 16  | 8 | 4 |



### Catalogue Numbers

| Size    | Current (A) | References without Indicator | References with Indicator | References with striker | Voltage (V) | Disconnection power (kA) | UP* |         |
|---------|-------------|------------------------------|---------------------------|-------------------------|-------------|--------------------------|-----|---------|
| 8 x 31  | 1           | C8M1                         | C8M1I                     | N/A                     | 400V        | 20kA                     | 10  |         |
|         | 2           | C8M2                         | C8M2I                     |                         |             |                          |     |         |
|         | 4           | C8M4                         | C8M4I                     |                         |             |                          |     |         |
|         | 6           | C8M6                         | C8M6I                     |                         |             |                          |     |         |
|         | 8           | C8M8                         | -                         |                         |             |                          |     |         |
|         | 10          | C8M10                        | C8M10I                    |                         |             |                          |     |         |
| 10 x 38 | 0.16        | C10M0.16                     | -                         | N/A                     | 500V        | 120kA                    | 10  |         |
|         | 0.25        | C10M0.25                     | -                         |                         |             |                          |     |         |
|         | 0.5         | C10M0.5                      | -                         |                         |             |                          |     |         |
|         | 1           | C10M1                        | C10M1I                    |                         |             |                          |     |         |
|         | 2           | C10M2                        | C10M2I                    |                         |             |                          |     |         |
|         | 4           | C10M4                        | C10M4I                    |                         |             |                          |     |         |
|         | 6           | C10M6                        | C10M6I                    |                         |             |                          |     |         |
|         | 8           | C10M8                        | C10M8I                    |                         |             |                          |     |         |
|         | 10          | C10M10                       | C10M10I                   |                         |             |                          |     |         |
|         | 12          | C10M12                       | C10M12I                   |                         |             |                          |     |         |
|         | 16          | C10M16                       | C10M16I                   |                         |             |                          |     |         |
|         | 20          | C10M20                       | C10M20I                   |                         |             |                          |     |         |
|         | 25          | C10M25                       | C10M25I                   |                         |             |                          |     |         |
|         | 32          | C10M32                       | -                         |                         | 400V        |                          |     |         |
| 14 x 51 | 0.25        | C14M0.25                     |                           |                         | 500V        | 120kA                    | 10  |         |
|         | 0.5         | C14M0.50                     |                           |                         |             |                          |     |         |
|         | 1           | C14M1                        | C14M1I                    |                         |             |                          |     |         |
|         | 2           | C14M2                        | C14M2I                    |                         |             |                          |     | C14M2S  |
|         | 4           | C14M4                        | C14M4I                    |                         |             |                          |     | C14M4S  |
|         | 6           | C14M6                        | C14M6I                    |                         |             |                          |     | C14M6S  |
|         | 8           | C14M8                        | C14M8I                    |                         |             |                          |     | C14M8S  |
|         | 10          | C14M10                       | C14M10I                   |                         |             |                          |     | C14M10S |
|         | 12          | C14M12                       | C14M12I                   |                         |             |                          |     | C14M12S |
|         | 16          | C14M16                       | C14M16I                   |                         |             |                          |     | C14M16S |
|         | 20          | C14M20                       | C14M20I                   |                         |             |                          |     | C14M20S |
|         | 25          | C14M25                       | C14M25I                   |                         |             |                          |     | C14M25S |
|         | 32          | C14M32                       | C14M32I                   |                         |             |                          |     | C14M32S |
|         | 40          | C14M40                       | C14M40I                   |                         |             |                          |     | C14M40S |
|         | 50          | C14M50                       | C14M50I                   |                         | C14M50S     |                          |     | 400V    |
| 22 x 58 | 2           | C22M2                        | C22M2I                    |                         | 690V        | 80kA                     | 10  |         |
|         | 4           | C22M4                        | C22M4I                    |                         |             |                          |     |         |
|         | 6           | C22M6                        | C22M6I                    |                         |             |                          |     |         |
|         | 8           | C22M8                        | C22M8I                    |                         |             |                          |     |         |
|         | 10          | C22M10                       | C22M10I                   |                         |             |                          |     |         |
|         | 12          | C22M12                       | C22M12I                   |                         |             |                          |     |         |
|         | 16          | C22M16                       | C22M16I                   |                         |             |                          |     | C22M16S |
|         | 20          | C22M20                       | C22M20I                   |                         |             |                          |     | C22M20S |
|         | 25          | C22M25                       | C22M25I                   |                         |             |                          |     | C22M25S |
|         | 32          | C22M32                       | C22M32I                   |                         |             |                          |     | C22M32S |
|         | 40          | C22M40                       | C22M40I                   |                         |             |                          |     | C22M40S |
|         | 50          | C22M50                       | C22M50I                   |                         |             |                          |     | C22M50S |
|         | 63          | C22M63                       | C22M63I                   |                         |             |                          |     | C22M63S |
|         | 80          | C22M80                       | C22M80I                   |                         |             |                          |     | C22M80S |
|         | 100         | C22M100                      | C22M100I                  |                         | C22M100S    | 500V                     |     | 120kA   |
|         | 125         | C22M125                      | C22M125I                  |                         | C22M125S    | 400V                     |     |         |
|         |             |                              |                           |                         |             |                          |     |         |

\*UP: Unit Packing

### Neutral Cartridges

|         |         |       |
|---------|---------|-------|
| 8 x 31  | Neutral | C8NL  |
| 10 x 38 |         | C10NL |
| 14 x 51 |         | C14NL |
| 22 x 58 |         | C22NL |



## Modular Domestic Fuse Holders

**CHD**  
**250 - 400V / 10 - 32A**  
**Sizes: 8x23, 10x25, 8x31**  
**10x31, 10x38**



### Specifications

**Description:** Fuse Holder for domestic cylindrical fuses. Secured to DIN rail and available with light indicator for active fuse function. Range as single-pole and single-pole plus neutral in one module.

### Ratings:

- Volts: - 250V ac (8x31, 10x25)  
- 400V ac (8x31, 10x31, 10x38)  
Amps: - 10 - 32A  
IR - 6kA (6x23, 8x23, 10x25)  
- 20kA (8x31, 10x31, 8x36, 10x38)

**Applications:** Protection for power lines, heating circuits, lighting circuits. electrical domestic appliances and domestic electricity meters

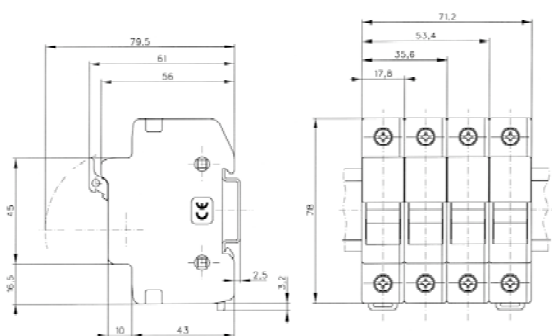
**Agency Information:** NF C 62203, EN IEC 60269-3, NF marking on all models

### Catalogue Numbers



| Size    | Rating (A) | Voltage (V) | Single Pole       |                | Single Pole + Neutral |                | UP |
|---------|------------|-------------|-------------------|----------------|-----------------------|----------------|----|
|         |            |             | without Indicator | with Indicator | without Indicator     | with Indicator |    |
| 8x23    | 10         | 250         | CHD8231D          | CHD8231DI      | CHD8231DN             | CHD8231DNI     | 12 |
| 10x25   | 16         | 250         | CHD10251D         | CHD10251DI     | CHD10251DN            | CHD10251DNI    | 12 |
| 8x31    | 20         | 400         | CHD8311D          | CHD8311DI      | CHD8311DN             | CHD8311DNI     | 12 |
| 10x31   | 25         | 400         | CHD10311D         | CHD10311DI     | CHD10311DN            | CHD10311DNI    | 12 |
| 10x38   | 32         | 400         | CHD1038D          | CHD1038DI      | CHD1038DN             | CHD1038DNI     | 12 |
| Neutral | 32         | 400         | CHDND             | -              | -                     | -              | 12 |

UP: Unit Packing



## Cylindrical Industrial Fuses

### CHM 690V / 25 - 32A Sizes: 8x31, 10x38

#### Specifications

**Description:** Fuse Holder for cylindrical industrial fuses. Secured to DIN rail and available with and without light indicator for active fuse function. Range as multi-pole and single-pole plus neutral fuse holders in one module. Accessories for the assembly of modules.

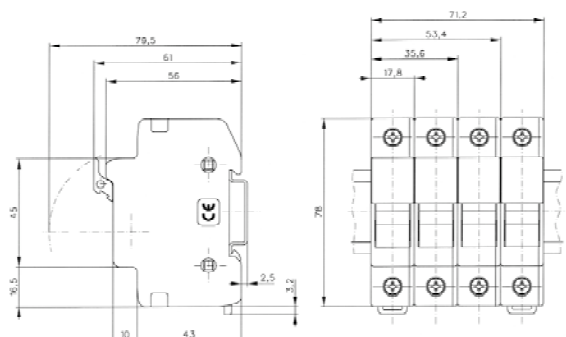
#### Ratings:

Volts: - 690V ac  
Amps: - 25 - 32A

**Applications:** Protection of industrial electrical distribution circuits and electrical appliances

**Agency Information:** EN IEC 60269-3, EN IEC 60947

#### Dimensions

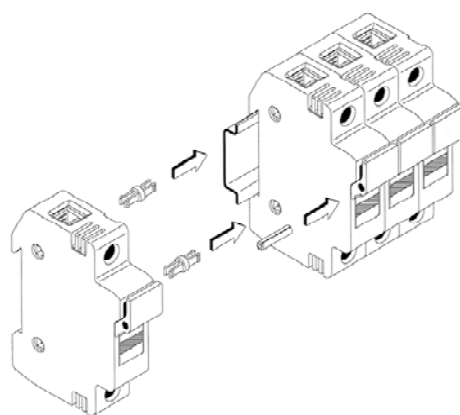


#### Catalogue Numbers

| Size    | Poles   | No of Modules | References without Indicator | References with Indicator | Current (A) | Voltage (V) | Unit Packing |
|---------|---------|---------------|------------------------------|---------------------------|-------------|-------------|--------------|
| 8 x 31  | Neutral | 1             | CHMDNX                       | -                         | 25A         | 690V        | 12           |
|         | 1P      | 1             | CH081D                       | CH081DI                   |             |             | 12           |
|         | 1P + N  | 1             | CH081DNS                     | CH081DNSI                 |             |             | 12           |
|         | 1P + N  | 2             | CH081DN                      | CH081DNI                  |             |             | 6            |
|         | 2P      | 2             | CH082D                       | CH082DI                   |             |             | 6            |
|         | 3P      | 3             | CH083D                       | CH083DI                   |             |             | 4            |
|         | 3P + N  | 3             | CH083DNS                     | CH083DNSI                 |             |             | 4            |
|         | 3P + N  | 4             | CH083DN                      | CH083DNI                  |             |             | 3            |
|         | 4P      | 4             | CH084D                       | CH084DI                   |             |             | 3            |
| 10 x 38 | Neutral | 1             | CHMDNX                       | -                         | 32A         | 690V        | 12           |
|         | 1P      | 1             | CHM1D                        | CHM1DI                    |             |             | 12           |
|         | 1P + N  | 1             | CHM1DNS                      | CHM1DNSI                  |             |             | 12           |
|         | 1P + N  | 2             | CHM1DN                       | CHM1DNI                   |             |             | 6            |
|         | 2P      | 2             | CHM2D                        | CHM2DI                    |             |             | 6            |
|         | 3P      | 3             | CHM3D                        | CHM3DI                    |             |             | 4            |
|         | 3P + N  | 3             | CHM3DNS                      | CHM3DNSI                  |             |             | 4            |
|         | 3P + N  | 4             | CHM3DN                       | CHM3DNI                   |             |             | 3            |
|         | 4P      | 4             | CHM4D                        | CHM4DI                    |             |             | 3            |

#### Catalogue Number

| Description                                   | Size                                 | References | Unit Packing |
|-----------------------------------------------|--------------------------------------|------------|--------------|
| Clips for assembly of multi-pole fuse holders | 8 x 31 - 10 x 38 - 14 x 51 - 22 x 58 | AL-D       | 12           |
| Multi phase handle pin connector              | 8 x 31 - 10 x 38                     | CH810-HP   | 12           |



## Cylindrical Industrial Fuses

### CH 690V / 50 - 125A Sizes: 14 x 51, 22 x 38

#### Specifications

**Description:** Fuse Holders for cylindrical industrial fuses. Secured to DIN rail and screwed. Available with and without light indicator for active fuse function and with auxiliary contact for use with plunger fuses. The auxiliary contact is available in two versions: one for the detection of fuse actuation and pre-disconnected, and the other fuse actuation only.

#### Ratings:

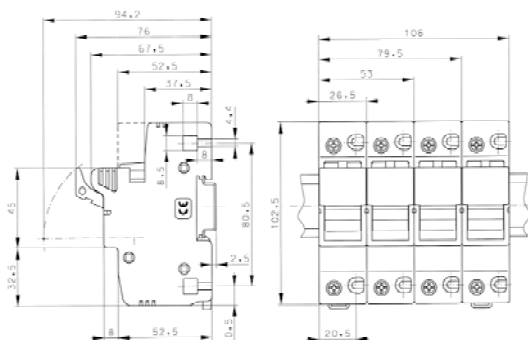
Volts: - 690V ac  
Amps: - 25 - 32A

**Applications:** Protection of industrial circuits and electrical appliances.

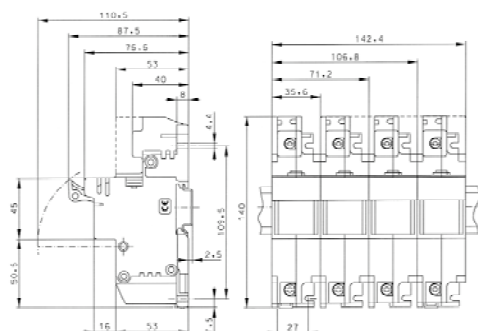
**Agency Information:** EN IEC 60269-3, EN IEC 60947

#### Dimensions

##### 14 x 51



##### 22 x 58



#### Catalogue Numbers

| Size    | Poles   | Nb of Modules | References without Indicator | References with Indicator | References with auxiliary contact          |               | Current (A) | Voltage (V) | UP* |
|---------|---------|---------------|------------------------------|---------------------------|--------------------------------------------|---------------|-------------|-------------|-----|
|         |         |               |                              |                           | Fuse response/ presence and pre-disconnect | Fuse response |             |             |     |
| 14 x 51 | Neutral | 1.5           | CH141DNX                     |                           | -                                          | -             | 50A         | 690V        | 6   |
|         | 1P      | 1.5           | CH141D                       | CH141DI                   | CH141DMS-F                                 | CH141DMS      |             |             | 6   |
|         | 1P + N  | 3             | CH141DN                      | CH141DNI                  | -                                          | -             |             |             | 3   |
|         | 2P      | 3             | CH142D                       | CH142DI                   | -                                          | -             |             |             | 3   |
|         | 3P      | 4.5           | CH143D                       | CH143DI                   | CH143DMS-F                                 | CH143DMS      |             |             | 2   |
|         | 3P + N  | 6             | CH143DN                      | CH143DNI                  | CH143DNMS-F                                | CH143DNMS     |             |             | 1   |
|         | 4P      | 6             | CH144D                       | CH144DI                   | -                                          | -             |             |             | 1   |
| 22 x 58 | Neutral | 2             | CH221DNX                     |                           | -                                          | -             | 125A        | 690V        | 6   |
|         | 1P      | 2             | CH221D                       |                           | -                                          | CH221DMS      |             |             | 6   |
|         | 1P + N  | 4             | CH221DN                      |                           | -                                          | -             |             |             | 3   |
|         | 2P      | 4             | CH222D                       |                           | -                                          | -             |             |             | 3   |
|         | 3P      | 6             | CH223D                       |                           | -                                          | CH223DMS      |             |             | 2   |
|         | 3P + N  | 8             | CH223DN                      |                           | -                                          | CH223DNMS     |             |             | 1   |
|         | 4P      | 8             | CH224D                       |                           | -                                          | -             |             |             | 1   |

\*UP: Unit Packing

#### Catalogue Numbers

| Description                                  | Size                | Ref       | UP* |
|----------------------------------------------|---------------------|-----------|-----|
| Clips for assembly of multi-pole fuse holder | 8x31, 10x38, 14x51, | AL-D      | 12  |
| Multi phase handle Pin connector             | 14x51               | CH14-P    | 12  |
| Auxiliary contact for fuse response - 1 pole | 14x51               | CH14MS-1D | 5   |
| Auxiliary contact for fuse response - 3 pole | 14x51               | CH14MS-3D | 2   |

\*UP: Unit Packing

## NH Fuses - Dual Indicator

### Class gG - Low Power Loss 400V / 2 - 630A

**Sizes 000, 00, 01, 1, 02, 2,  
03, 3**

#### Specifications

**Description:** Low Power Loss NH Fuses for industrial protection, gG range (general protection). Dual Indicator system for fuse operation function (in the body and in the side plate). Version with voltage free metal gripping lugs for insulated fuses. The components used are lead and cadmium free. Fuses subject to HRC recycling commitment.

#### Ratings:

Volts: - 400V ac

Amps: - 2 - 630A

IR - 120kA - 400V ac

**Applications:** Protection of large electric distribution networks, cables and distribution boards where the minimization of power losses is a requirement. Electrical utilities and electrical distribution networks

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620, VDE approval.

**Dimensions:** see page 35



### Catalogue Numbers

| Size | Rated Current (A) | gG-gL Dual Indicator             |                                  | Unit Packing |
|------|-------------------|----------------------------------|----------------------------------|--------------|
|      |                   | voltage conducting gripping lugs | voltage free metal gripping lugs |              |
| 000  | 2                 | 2NHG000B-400                     | 2NHG000BI-400                    | 3            |
|      | 4                 | 4NHG000B-400                     | 4NHG000BI-400                    | 3            |
|      | 6                 | 6NHG000B-400                     | 6NHG000BI-400                    | 3            |
|      | 10                | 10NHG000B-400                    | 10NHG000BI-400                   | 3            |
|      | 16                | 16NHG000B-400                    | 16NHG000BI-400                   | 3            |
|      | 20                | 20NHG000B-400                    | 20NHG000BI-400                   | 3            |
|      | 25                | 25NHG000B-400                    | 25NHG000BI-400                   | 3            |
|      | 32                | 32NHG000B-400                    | 32NHG000BI-400                   | 3            |
|      | 35                | 35NHG000B-400                    | 35NHG000BI-400                   | 3            |
|      | 40                | 40NHG000B-400                    | 40NHG000BI-400                   | 3            |
|      | 50                | 50NHG000B-400                    | 50NHG000BI-400                   | 3            |
|      | 63                | 63NHG000B-400                    | 63NHG000BI-400                   | 3            |
| 0    | 80                | 80NHG000B-400                    | 80NHG000BI-400                   | 3            |
|      | 100               | 100NHG000B-400                   | 100NHG000BI-400                  | 3            |
| 0    | 125               | 125NHG000B-400                   | 125NHG000BI-400                  | 3            |
|      | 160               | 160NHG000B-400                   | 160NHG000BI-400                  | 3            |
| 01   | 35                | 35NHG01B-400                     | 35NHG01BI-400                    | 3            |
|      | 40                | 40NHG01B-400                     | 40NHG01BI-400                    | 3            |
|      | 50                | 50NHG01B-400                     | 50NHG01BI-400                    | 3            |
|      | 63                | 63NHG01B-400                     | 63NHG01BI-400                    | 3            |
|      | 80                | 80NHG01B-400                     | 80NHG01BI-400                    | 3            |
|      | 100               | 100NHG01B-400                    | 100NHG01BI-400                   | 3            |
|      | 125               | 125NHG01B-400                    | 125NHG01BI-400                   | 3            |
|      | 160               | 160NHG01B-400                    | 160NHG01BI-400                   | 3            |
| 1    | 200               | 200NHG1B-400                     | 200NHG1BI-400                    | 3            |
|      | 224               | 224NHG1B-400                     | 224NHG1BI-400                    | 3            |
|      | 250               | 250NHG1B-400                     | 250NHG1BI-400                    | 3            |
| 02   | 35                | 35NHG02B-400                     | 35NHG02BI-400                    | 3            |
|      | 40                | 40NHG02B-400                     | 40NHG02BI-400                    | 3            |
|      | 50                | 50NHG02B-400                     | 50NHG02BI-400                    | 3            |
|      | 63                | 63NHG02B-400                     | 63NHG02BI-400                    | 3            |
|      | 80                | 80NHG02B-400                     | 80NHG02BI-400                    | 3            |
|      | 100               | 100NHG02B-400                    | 100NHG02BI-400                   | 3            |
|      | 125               | 125NHG02B-400                    | 125NHG02BI-400                   | 3            |
|      | 160               | 160NHG02B-400                    | 160NHG02BI-400                   | 3            |
|      | 200               | 200NHG02B-400                    | 200NHG02BI-400                   | 3            |
|      | 224               | 224NHG02B-400                    | 224NHG02BI-400                   | 3            |
| 2    | 250               | 250NHG02B-400                    | 250NHG02BI-400                   | 3            |
|      | 315               | 315NHG2B-400                     | 315NHG2BI-400                    | 3            |
|      | 355               | 355NHG2B-400                     | 355NHG2BI-400                    | 3            |
| 03   | 400               | 400NHG2B-400                     | 400NHG2BI-400                    | 3            |
|      | 250               | 250NHG03B-400                    | 250NHG03BI-400                   | 3            |
|      | 315               | 315NHG03B-400                    | 315NHG03BI-400                   | 3            |
| 3    | 355               | 355NHG03B-400                    | 355NHG03BI-400                   | 3            |
|      | 400               | 400NHG03B-400                    | 400NHG03BI-400                   | 3            |
|      | 500               | 500NHG3B-400                     | 500NHG3BI-400                    | 3            |
| 3    | 630               | 630NHG3B-400                     | 630NHG3BI-400                    | 3            |

## NH Fuses - Dual Indicator

### Class gG - Low Power Loss 500V / 2 - 1600A

#### Sizes C00, 0, 1, 2, 3, 4, 4A

#### Specifications

**Description:** Low Power Loss NH Fuses for industrial protection, gG range (general protection). Dual Indicator system for fuse operation function (in the body and in the side plate) except for the sizes 4 & 4A. Version with voltage free metal gripping lugs for insulated fuses. The components used in manufacture are lead and cadmium free. Fuses subject to HRC recycling commitment.

#### Ratings:

Volts: - 500V ac  
Amps: - 2 - 1600A  
IR - 120kA - 500V ac  
- 50kA - 250V dc

**Applications:** Protection of large electric distribution networks, cables and distribution boards (except motors) where the minimize of power losses is a requirement.

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620, VDE approval.

**Dimensions:** see page 35



#### Catalogue Numbers

| Size                  | Rated Current (A) | gG-gL Dual Indicator             |                                  | Unit Packing |
|-----------------------|-------------------|----------------------------------|----------------------------------|--------------|
|                       |                   | voltage conducting gripping lugs | voltage free metal gripping lugs |              |
| 000                   | 2                 | 2NHG000B                         | 2NHG000BI                        | 3            |
|                       | 4                 | 4NHG000B                         | 4NHG000BI                        | 3            |
|                       | 6                 | 6NHG000B                         | 6NHG000BI                        | 3            |
|                       | 10                | 10NHG000B                        | 10NHG000BI                       | 3            |
|                       | 16                | 16NHG000B                        | 16NHG000BI                       | 3            |
|                       | 20                | 20NHG000B                        | 20NHG000BI                       | 3            |
|                       | 25                | 25NHG000B                        | 25NHG000BI                       | 3            |
|                       | 32                | 32NHG000B                        | 32NHG000BI                       | 3            |
|                       | 35                | 35NHG000B                        | 35NHG000BI                       | 3            |
|                       | 40                | 40NHG000B                        | 40NHG000BI                       | 3            |
|                       | 50                | 50NHG000B                        | 50NHG000BI                       | 3            |
| 00                    | 63                | 63NHG000B                        | 63NHG000BI                       | 3            |
|                       | 80                | 80NHG000B                        | 80NHG000BI                       | 3            |
|                       | 100               | 100NHG000B                       | 100NHG000BI                      | 3            |
| 0                     | 125               | 125NHG00B                        | 125NHG00BI                       | 3            |
|                       | 160               | 160NHG00B                        | 160NHG00BI                       | 3            |
| 01                    | 10                | 10NHG01B                         | 10NHG01BI                        | 3            |
|                       | 16                | 16NHG01B                         | 16NHG01BI                        | 3            |
|                       | 20                | 20NHG01B                         | 20NHG01BI                        | 3            |
|                       | 25                | 25NHG01B                         | 25NHG01BI                        | 3            |
|                       | 32                | 32NHG01B                         | 32NHG01BI                        | 3            |
|                       | 35                | 35NHG01B                         | 35NHG01BI                        | 3            |
|                       | 40                | 40NHG01B                         | 40NHG01BI                        | 3            |
|                       | 50                | 50NHG01B                         | 50NHG01BI                        | 3            |
|                       | 63                | 63NHG01B                         | 63NHG01BI                        | 3            |
|                       | 80                | 80NHG01B                         | 80NHG01BI                        | 3            |
|                       | 100               | 100NHG01B                        | 100NHG01BI                       | 3            |
| 1                     | 125               | 125NHG01B                        | 125NHG01BI                       | 3            |
|                       | 160               | 160NHG01B                        | 160NHG01BI                       | 3            |
| 02                    | 200               | 200NHG1B                         | 200NHG1BI                        | 3            |
|                       | 224               | 224NHG1B                         | 224NHG1BI                        | 3            |
|                       | 250               | 250NHG1B                         | 250NHG1BI                        | 3            |
| 03                    | 315               | 315NHG2B                         | 315NHG2BI                        | 3            |
|                       | 355               | 355NHG2B                         | 355NHG2BI                        | 3            |
|                       | 400               | 400NHG2B                         | 400NHG2BI                        | 3            |
|                       | 250               | 250NHG03B                        | 250NHG03BI                       | 3            |
|                       | 315               | 315NHG03B                        | 315NHG03BI                       | 3            |
|                       | 355               | 355NHG03B                        | 355NHG03BI                       | 3            |
|                       | 400               | 400NHG03B                        | 400NHG03BI                       | 3            |
|                       | 500               | 500NHG3B                         | 500NHG3BI                        | 3            |
|                       | 630               | 630NHG3B                         | 630NHG3BI                        | 3            |
|                       | 500               | 500NHG4G                         | -                                | 3            |
|                       | 630               | 630NHG4G                         | -                                | 3            |
| 4A                    | 800               | 800NH4AG                         | -                                | 3            |
|                       | 900               | 900NH4AG                         | -                                | 3            |
|                       | 1000              | 1000NH4AG                        | -                                | 3            |
|                       | 1250              | 1250NH4AG                        | -                                | 3            |
| None Slotted End Tags | 1600              | 1600NH4AG                        | -                                | 3            |

Data Sheets: 2142

## NH Fuses - Dual Indicator

**Class gG**  
**690V / 2 - 630A**

**Sizes 000, 00, 0, 1, 2, 3**

### Specifications

**Description:** NH Fuses for gG range industrial protection (general protection). Double indicator system for fuse operation (in the body and in the side plate). Version with voltage free metal gripping lugs for insulated fuses. The components used in manufacture are lead and cadmium free. Fuses subject to HRC recycling commitment.

### Ratings:

Volts: - 690V ac  
Amps: - 2 - 630A  
IR - 120kA - 690V ac

**Applications:** Protection of electrical distribution circuits, cables and electrical appliances (with the exception of motors).

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620.

**Dimensions:** see page 35



### Catalogue Numbers

| Size | Rated Current (A) | gG - gL<br>Dual Indicator        |                                  | Unit Packing |
|------|-------------------|----------------------------------|----------------------------------|--------------|
|      |                   | voltage conducting gripping lugs | voltage free metal gripping lugs |              |
| 000  | 2                 | 2NHG000B-690                     | 2NHG000BI-690                    | 3            |
|      | 4                 | 4NHG000B-690                     | 4NHG000BI-690                    |              |
|      | 6                 | 6NHG000B-690                     | 6NHG000BI-690                    |              |
|      | 10                | 10NHG000B-690                    | 10NHG000BI-690                   |              |
|      | 16                | 16NHG000B-690                    | 16NHG000BI-690                   |              |
|      | 20                | 20NHG000B-690                    | 20NHG000BI-690                   |              |
|      | 25                | 25NHG000B-690                    | 25NHG000BI-690                   |              |
|      | 32                | 32NHG000B-690                    | 32NHG000BI-690                   |              |
|      | 35**              | 35NHG000B-690                    | 35NHG000BI-690                   |              |
| 00   | 40                | 40NHG000B-690                    | 40NHG000BI-690                   | 3            |
|      | 50                | 50NHG00B-690                     | 50NHG00BI-690                    |              |
|      | 63                | 63NHG00B-690                     | 63NHG00BI-690                    |              |
|      | 80                | 80NHG00B-690                     | 80NHG00BI-690                    |              |
| 0    | 100               | 100NHG00B-690                    | 100NHG00BI-690                   | 3            |
|      | 6                 | 6NHG0B-690                       | -                                |              |
|      | 10                | 10NHG0B-690                      | -                                |              |
|      | 16                | 16NHG0B-690                      | -                                |              |
|      | 20                | 20NHG0B-690                      | -                                |              |
|      | 25                | 25NHG0B-690                      | -                                |              |
|      | 32                | 32NHG0B-690                      | -                                |              |
|      | 35                | 35NHG0B-690                      | -                                |              |
|      | 40                | 40NHG0B-690                      | -                                |              |
|      | 50                | 50NHG0B-690                      | -                                |              |
|      | 63                | 63NHG0B-690                      | -                                |              |
| 1    | 80                | 80NHG0B-690                      | -                                | 3            |
|      | 100               | 100NHG0B-690                     | -                                |              |
|      | 125               | 125NHG1B-690                     | 125NHG1BI-690                    |              |
|      | 160               | 160NHG1B-690                     | 160NHG1BI-690                    |              |
|      | 200               | 200NHG1B-690                     | 200NHG1BI-690                    |              |
|      | 63                | 63NHG2B-690                      | 63NHG2BI-690                     |              |
|      | 80                | 80NHG2B-690                      | 80NHG2BI-690                     |              |
|      | 100               | 100NHG2B-690                     | 100NHG2BI-690                    |              |
|      | 125               | 125NHG2B-690                     | 125NHG2BI-690                    |              |
|      | 160               | 160NHG2B-690                     | 160NHG2BI-690                    |              |
|      | 200               | 200NHG2B-690                     | 200NHG2BI-690                    |              |
|      | 224               | 224NHG2B-690                     | 224NHG2BI-690                    |              |
|      | 250               | 250NHG2B-690                     | 250NHG2BI-690                    |              |
|      | 315               | 315NHG2B-690                     | 315NHG2BI-690                    |              |
| 2    | 250               | 250NHG3B-690                     | 250NHG3BI-690*                   | 3            |
|      | 315               | 315NHG3B-690                     | 315NHG3BI-690*                   |              |
|      | 355               | 355NHG3B-690                     | 355NHG3BI-690*                   |              |
|      | 400               | 400NHG3B-690                     | 400NHG3BI-690*                   |              |
|      | 500               | 500NHG3B-690                     | 500NHG3BI-690*                   |              |
|      | 630               | -                                | -                                |              |

\* Contact Cooper Bussmann for availability

\*\* Interrupting Rating for the 35 A size 000 is 80kA

## NH Fuses - Dual Indicator

### Class aM

500 - 690V / 2 - 630A

Sizes 000, 00, 0, 1, 2, 3A

### Specifications

**Description:** NH Fuses for aM range industrial protection (general protection). Double indicator system for fuse operation (in the body and in the side plate). Version with voltage free metal gripping lugs for insulated fuses.

The components used in manufacture are lead and cadmium free. Fuses subject to HRC recycling commitment.

### Ratings:

- Volts: - 690V ac
- Amps: - 25 - 32A
- IR - 80 kA - 500Vac (sizes 000,00 - up to 100A)
- 120kA - 500Vac/690Vac

**Applications:** Protection of electrical motors.

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620.

**Dimensions:** see page 35



### Catalogue Numbers

| Size | Rated Current (A) | aM Dual Indicator                |                                  | Unit Packing |
|------|-------------------|----------------------------------|----------------------------------|--------------|
|      |                   | voltage conducting gripping lugs | voltage free metal gripping lugs |              |
| 000  | 2                 | -                                | -                                | 3            |
|      | 4                 | -                                | -                                |              |
|      | 6                 | 6NHM000B-690                     | 6NHM000BI-690                    |              |
|      | 10                | 10NHM000B-690                    | 10NHM000BI-690                   |              |
|      | 16                | 16NHM000B-690                    | 16NHM000BI-690                   |              |
|      | 20                | 20NHM000B-690                    | 20NHM000BI-690                   |              |
|      | 25                | 25NHM000B-690                    | 25NHM000BI-690                   |              |
|      | 32                | 32NHM000B-690                    | 32NHM000BI-690                   |              |
|      | 35                | 35NHM000B-690                    | 35NHM000BI-690                   |              |
| 00   | 40                | 40NHM000B-690                    | 40NHM000BI-690                   | 3            |
|      | 50                | 50NHM00B                         | 50NHM00BI                        |              |
|      | 63                | 63NHM00B                         | 63NHM00BI                        |              |
|      | 80                | 80NHM00B                         | 80NHM00BI                        |              |
|      | 100               | 100NHM00B                        | 100NHM00BI                       |              |
| 0    | 160               | 160NHM00B                        | 160NHM00BI                       | 3            |
|      | 6                 | 6NHM0B                           | -                                |              |
|      | 10                | 10NHM0B                          | -                                |              |
|      | 16                | 16NHM0B                          | -                                |              |
|      | 20                | 20NHM0B                          | -                                |              |
|      | 25                | 25NHM0B                          | -                                |              |
|      | 32                | 32NHM0B                          | -                                |              |
|      | 35                | 35NHM0B                          | -                                |              |
|      | 40                | 40NHM0B                          | -                                |              |
|      | 50                | 50NHM0B                          | -                                |              |
|      | 63                | 63NHM0B                          | -                                |              |
| 1    | 80                | 80NHM0B                          | -                                | 3            |
|      | 100               | 100NHM0B                         | -                                |              |
|      | 125               | 125NHM1B                         | 125NHM1BI                        |              |
|      | 160               | 160NHM1B                         | 160NHM1BI                        |              |
|      | 200               | 200NHM1B                         | 200NHM1BI                        |              |
|      | 224               | 224NHM1B                         | 224NHM1BI                        |              |
|      | 250               | 250NHM1B                         | 250NHM1BI                        |              |
|      | 63                | 63NHM1B-690                      | 63NHM1BI-690                     | 3            |
| 2    | 80                | 80NHM1B                          | 80NHM1BI                         |              |
|      | 100               | 100NHM1B                         | 100NHM1BI                        |              |
|      | 125               | 125NHM2B-690                     | 125NHM2BI-690                    |              |
|      | 160               | 160NHM2B-690                     | 160NHM2BI-690                    |              |
|      | 200               | 200NHM2B-690                     | 200NHM2BI-690                    |              |
|      | 224               | 224NHM2B-690                     | 224NHM2BI-690                    |              |
|      | 250               | 250NHM2B-690                     | 250NHM2BI-690                    |              |
|      | 315               | 315NHM2B-690                     | 315NHM2BI-690                    |              |
|      | 355               | 355NHM2B-690                     | 355NHM2BI-690                    |              |
|      | 400               | 400NHM2B                         | 400NHM2BI                        |              |
| 3    | 250               | -                                | -                                | 3            |
|      | 315               | 315NHM3B-690                     | 315NHM3BI-690                    |              |
|      | 355               | 355NHM3B-690                     | 355NHM3BI-690                    |              |
|      | 400               | 400NHM3B-690                     | 400NHM3BI-690                    |              |
|      | 500               | 500NHM3B-690                     | 500NHM3BI-690                    |              |
|      | 630               | 630NHM3B                         | 630NHM3BI                        |              |

## NH Fuses

**Class aM**  
**500V / 2 - 630A**

**Sizes C00, 0, 1, 2, 3**



### Specifications

**Description:** NH Fuses for aM range industrial protection (general protection). Indicator for fuse activation in the side panel. The components used in manufacture are lead and cadmium free. Fuses subject to HRC recycling commitment.

### Ratings:

- Volts: - 500V ac
- Amps: - 2 - 630A
- IR - 120kA - 500Vac
- 50kA - 250V dc

**Applications:** Protection of direct starter motors

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620.

**Dimensions:** see page 35

### Catalogue Numbers

| Size | Rated current (A) | Voltage conducting gripping lugs | Disconnect Power (kA) | Unit Packing |
|------|-------------------|----------------------------------|-----------------------|--------------|
| C00  | 2                 | 2NHC00M                          | 120kA                 | 3            |
|      | 4                 | 4NHC00M                          |                       |              |
|      | 6                 | 6NHC00M                          |                       |              |
|      | 10                | 10NHC00M                         |                       |              |
|      | 16                | 16NHC00M                         |                       |              |
|      | 20                | 20NHC00M                         |                       |              |
|      | 25                | 25NHC00M                         |                       |              |
|      | 32                | 32NHC00M                         |                       |              |
|      | 40                | 40NHC00M                         |                       |              |
|      | 50                | 50NHC00M                         |                       |              |
| 00   | 63                | 63NH00M                          | 120kA                 | 3            |
|      | 80                | 80NH00M                          |                       |              |
|      | 100               | 100NH00M                         |                       |              |
|      | 125               | 125NH00M                         |                       |              |
|      | 160               | 160NH00M                         |                       |              |
| 0    | 32                | 32NH0M                           | 120kA                 | 3            |
|      | 50                | 50NH0M                           |                       |              |
|      | 63                | 63NH0M                           |                       |              |
|      | 80                | 80NH0M                           |                       |              |
|      | 100               | 100NH0M                          |                       |              |
|      | 125               | 125NH0M                          |                       |              |
|      | 160               | 160NH0M                          |                       |              |
| 1    | 40                | 40NH1M                           | 120kA                 | 3            |
|      | 50                | 50NH1M                           |                       |              |
|      | 63                | 63NH1M                           |                       |              |
|      | 80                | 80NH1M                           |                       |              |
|      | 100               | 100NH1M                          |                       |              |
|      | 125               | 125NH1M                          |                       |              |
|      | 160               | 160NH1M                          |                       |              |
|      | 200               | 200NH1M                          |                       |              |
| 2    | 250               | 250NH1M                          | 120kA                 | 3            |
|      | 100               | 100NH2M                          |                       |              |
|      | 125               | 125NH2M                          |                       |              |
|      | 160               | 160NH2M                          |                       |              |
|      | 200               | 200NH2M                          |                       |              |
|      | 250               | 250NH2M                          |                       |              |
|      | 315               | 315NH2M                          |                       |              |
|      | 355               | 355NH2M                          |                       |              |
| 3    | 400               | 400NH2M                          | 120kA                 | 3            |
|      | 315               | 315NH3M                          |                       |              |
|      | 400               | 400NH3M                          |                       |              |
|      | 500               | 500NH3M                          |                       |              |
|      | 630               | 630NH3M                          |                       |              |



## NH Fuses with Striker

**Class gG - aM**  
**500 - 690V / 63 -1250A**

**Sizes 1, 2, 3, 4**

### Specifications

**Description:** NH Fuses for industrial applications class gG and aM with integrated side striker for visual or remote indication of the fuse status. To be used with NH fuse holders fitted with micro-switch.

### Ratings:

Volts: - 500V ac Size 4  
- 690V ac Size 1,2,3  
Current - 63A - 1250A  
IR - 120kA - 500V ac  
- 80kA - 690V ac

**Applications:** Protection of electrical distribution circuits (Class gG) and motor protection (Class aM)

**Standards and Approvals:** Conform to standards EN IEC 60269, VDE 0636, DIN 43620.



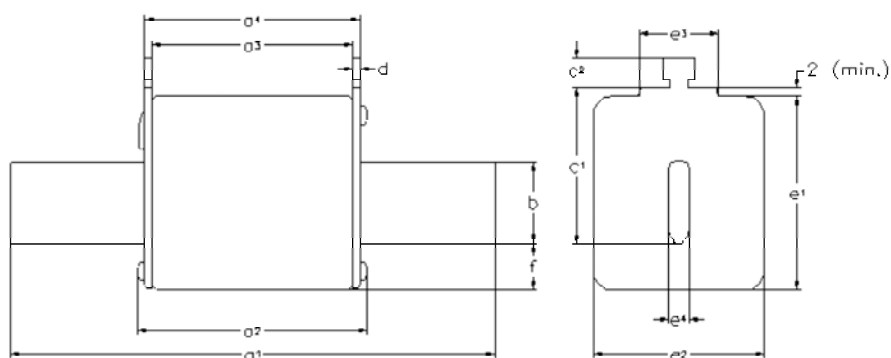
### Catalogue Numbers

| Size | Rated Current (A) | gG                                     | aM                                     | Pack Qty |
|------|-------------------|----------------------------------------|----------------------------------------|----------|
|      |                   | Voltage conducting metal gripping lugs | Voltage conducting metal gripping lugs |          |
| 1    | 63                | 63NHG1BS-690*                          | 63NHM1BS-690*                          | 3        |
|      | 80                | 80NHG1BS-690*                          | 80NHM1BS-690*                          |          |
|      | 100               | 100NHG1BS-690*                         | 100NHM1BS-690*                         |          |
|      | 125               | 125NHG1BS-690*                         | 125NHM1BS-690*                         |          |
|      | 160               | 160NHG1BS-690*                         | 160NHM1BS-690*                         |          |
|      | 200               | 200NHG1BS-690*                         | 200NHM1BS-690*                         |          |
|      | 224               | -                                      | 224NHM1BS-690*                         |          |
|      | 250               | -                                      | 250NHM1BS-690*                         |          |
| 2    | 125               | 125NHG2BS-690*                         | 125NHM2BS-690*                         | 3        |
|      | 160               | 160NHG2BS-690*                         | 160NHM2BS-690*                         |          |
|      | 200               | 200NHG2BS-690*                         | 200NHM2BS-690*                         |          |
|      | 224               | 224NHG2BS-690*                         | 224NHM2BS-690*                         |          |
|      | 250               | 250NHG2BS-690*                         | 250NHM2BS-690*                         |          |
|      | 315               | 315NHG2BS-690*                         | 315NHM2BS-690*                         |          |
|      | 355               | -                                      | 355NHM2BS-690*                         |          |
|      | 400               | -                                      | 400NHM2BS-690*                         |          |
| 3    | 315               | 315NHG3BS-690*                         | -                                      | 3        |
|      | 355               | 355NHG3BS-690*                         | -                                      |          |
|      | 400               | 400NHG3BS-690*                         | 400NHM3BS-690*                         |          |
|      | 500               | 500NHG3BS-690*                         | 500NHM3BS-690*                         |          |
|      | 630               | 630NHG3BS-690*                         | 630NHM3BS-690*                         |          |
| 4    | 500               | 500NH4G-S                              | -                                      | 3        |
|      | 630               | 630NH4G-S                              | -                                      |          |
|      | 800               | 800NH4G-S                              | -                                      |          |
|      | 1000              | 1000NH4G-S                             | -                                      |          |
|      | 1250              | 1250NH4G-S                             | -                                      |          |

\* Contact Cooper Bussmann for availability

## NH Fuses - Dimensions

### Knife Fuses (NH)



| Size a    | a1       | a2 (max) | a3                     | a4                     | b (rated) | c1(±8) | c2 (rated) | D (rated) | e1 (max) | e2 (max) | e3 (max) | e4 (rated) | f (max) |
|-----------|----------|----------|------------------------|------------------------|-----------|--------|------------|-----------|----------|----------|----------|------------|---------|
| 000       | 78.5±1.5 | 54       | 45±1.5                 | 49±1.5                 | 15        | 35     | 10         | 2±0.5     | 48       | 30       | 25       | 6          | 15      |
| 00        | 78.5±1.5 | 54       | 45±1.5                 | 49±1.5                 | 15        | 35     | 11         | 2±0.5     | 48       | 30       | 25       | 6          | 15      |
| 0         | 125±2.5  | 68       | 62± <sup>+3/-1.5</sup> | 68± <sup>+1.5/-3</sup> | 15        | 35     | 11         | 2.5±0.5   | 48       | 30       | 25       | 6          | 15      |
| 01        | 135±2.5  | 75       | 62±2.5                 | 68±2.5                 | 15        | 40     | 11         | 2.5±0.5   | 48       | 30       | 25       | 6          | 15      |
| 1         | 135±2.5  | 75       | 62±2.5                 | 68±2.5                 | 20        | 40     | 11         | 2.5±0.5   | 53       | 52       | 25       | 6          | 15      |
| 02        | 150±2.5  | 75       | 62±2.5                 | 68±2.5                 | 20        | 48     | 11         | 2.5±0.5   | 53       | 52       | 25       | 6          | 15      |
| 2         | 150±2.5  | 75       | 62±2.5                 | 68±2.5                 | 25        | 48     | 11         | 2.5±0.5   | 61       | 60       | 25       | 6          | 15      |
| 03        | 150±2.5  | 75       | 62±2.5                 | 68±2.5                 | 25        | 60     | 11         | 2.5±0.5   | 61       | 60       | 25       | 6          | 15      |
| 3         | 150±2.5  | 75       | 62±2.5                 | 68±2.5                 | 32        | 60     | 11         | 3±0.5     | 76       | 60       | 25       | 6          | 18      |
| 4a        | 200      | 84       | 80                     | 90                     | 50        | 85     |            | 3         | 102      | 87       |          |            | 30      |
| 4a -1600A | 200      | 84       | 80                     | 90                     | 50        | 85     |            | 3         | 102      | 87       |          |            | 30      |

## NH Fuse Holders for Knife Fuses

### SB-D, SB-S, SB-DMS 690V / 160 - 1600A

Sizes 00, 0, 1, 2, 3, 4



#### Specifications

**Description:** Knife fuses, NH, thermoplastic bodies for knife fuses. Securing to DIN rail and by screws (size 4 screw fixation only). Range of protection accessories for live parts in order to obtain IP20 protection standard. Available with micro-switch contact for use with fuses with striker (see page 30).

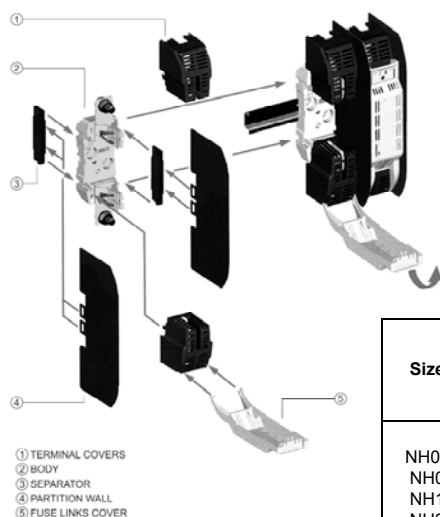
#### Ratings:

Volts: - up to 690V ac  
Amps: - 2 - 1600A

**Applications:** Protection of industrial circuits and electrical apparatus

**Standards and Approvals:** IEC 60269, VDE 0636, DIN 43620

#### Dimensions



#### Catalogue Numbers

| Size | Poles  | Current (A) | Part References  |                                 | With micro-switch contact | UP*         |
|------|--------|-------------|------------------|---------------------------------|---------------------------|-------------|
|      |        |             | Screw connection | DIN Rail connection             |                           |             |
| 00   | 1<br>3 | 160A        | SB00-S<br>TB00-S | SB00-D<br>TB00-D<br>TB00-D-IP20 |                           | 3<br>1<br>1 |
| 0    | 1<br>3 | 160A        | SB0-S<br>TB0-S   | SB0-D<br>TB0-D                  | SB0-DMS                   | 3<br>1      |
| 1    | 1<br>3 | 250A        | SB1-S<br>TB1-S   | SB1-D<br>TB1-D                  | SB1-DMS                   | 3<br>1      |
| 2    | 1<br>3 | 400A        | SB2-S<br>TB2-S   | SB2-D<br>TB2-D                  | SB2-DMS                   | 3<br>1      |
| 3    | 1<br>3 | 630A        | SB3-S<br>TB3-S   | SB3-D<br>TB3-D                  | SB3-DMS                   | 3<br>1      |
| 4    | 1      | 1600A       | SB4-S            |                                 | SB4-DMS                   | 3           |

#### Neutral

| Size | Current (A) | Part Ref | Unit Packing |
|------|-------------|----------|--------------|
| NH00 | 160         | SL00     | 3            |
| NH0  | 160         | SL0      |              |
| NH1  | 250         | SL1      |              |
| NH2  | 400         | SL2      |              |
| NH3  | 630         | SL3      |              |
| NH4  | 1000        | SL4      |              |

#### Fuse extraction handle

| Size  | Part Ref | Unit Packing |
|-------|----------|--------------|
| C00-3 | FEH      | 1            |

#### Protection accessories

| Size | Current (A) | Separation Partition ④ |              | Fuse Cover ⑤ |              | Terminal Cover ① |              | Separator ③ |              |
|------|-------------|------------------------|--------------|--------------|--------------|------------------|--------------|-------------|--------------|
|      |             | Part Ref               | Unit Packing | Part Ref     | Unit Packing | Part Ref         | Unit Packing | Part Ref    | Unit Packing |
| NH00 | 160A        | SP00                   | 2            | FC00         | 3            | CS00             | 6            | BC00        | 2            |
| NH0  | 160A        | SP0                    | 2            | FC0          | 3            | CS0              | 6            | BC0         | 2            |
| NH1  | 250A        | SP1-2                  | 2            | FC1          | 3            | CS1              | 6            | BC1-2       | 2            |
| NH2  | 400A        | SP1-2                  | 2            | FC2          | 3            | CS2              | 6            | BC1-2       | 2            |
| NH3  | 630A        | SP3                    | 2            | FC3          | 3            | CS3              | 6            | BC3         | 2            |
| NH4  | 1250A       | SP4                    | 2            |              |              |                  |              |             |              |

#### IP Protection Kits

|             |                                           |
|-------------|-------------------------------------------|
| TB00-D-IP20 | Complete triple pole fuse base IP20 rated |
| FPK0-3P     | IP20 kit for TB0-D fuse base              |
| FPK1-3P     | IP20 kit for TB1-D fuse base              |
| FPK2-3P     | IP20 kit for TB2-D fuse base              |
| FPK3-3P     | IP20 kit for TB3-D fuse base              |

## Knife Fuseholders (NH)

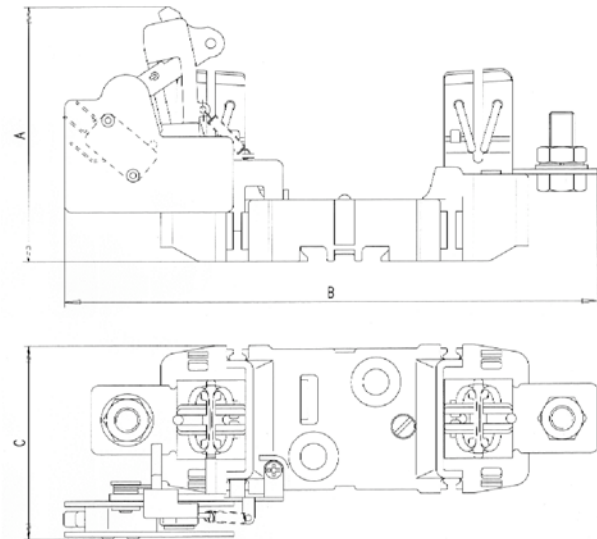
[illegible][illegible]

| Size | A   | B   | C  | D  | E   | F    | G  | H  | I   | J    | K    | L   | M   | N  | O  | P    | Q    |
|------|-----|-----|----|----|-----|------|----|----|-----|------|------|-----|-----|----|----|------|------|
| NH0  | 170 | 150 | 47 | 24 | 122 | 63   | 63 | 29 | 74  | 48.5 | 91.5 | 185 | MB  | 25 | -  | 7.5  | 15   |
| NH1  | 200 | 175 | 60 | 28 | 148 | 77.5 | 35 | 80 | 192 | 66   | 123  | 250 | M10 | 25 | 30 | 10.5 | 20.5 |
| NH2  | 225 | 200 | 60 | 32 | 148 | 88   | 35 | 80 | 192 | 66   | 123  | 250 | M12 | 25 | 30 | 10.5 | 20.5 |
| NH3  | 240 | 210 | 60 | 38 | 148 | 97   | 35 | 80 | 224 | 82   | 143  | 270 | M12 | 25 | 30 | 10.5 | 20.5 |

## Dimensions for Knife Fuses and Fuseholders NH

### Knife Fuseholders (NH)

Bases for fuseholders with micro circuit-breaker



| Size | A   | B   | C    |
|------|-----|-----|------|
| NH0  | 90  | 193 | 65.5 |
| NH1  | 98  | 215 | 76   |
| NH2  | 102 | 227 | 76   |
| NH3  | 102 | 235 | 76   |
| NH4  | 140 | 284 | 113  |

## NH Fuse Rail

### Vertical Style BFRD 690V / 250-630A

#### Sizes 1, 2, 3

#### Specifications

**Description:** Vertical Fuse Rails are designed to be used with NH Fuses. Fully protected against accidental contacts. Main features are:

- Contact covers
- Inter polar barriers
- Label for protected circuit identification
- Busbar mounting with screws

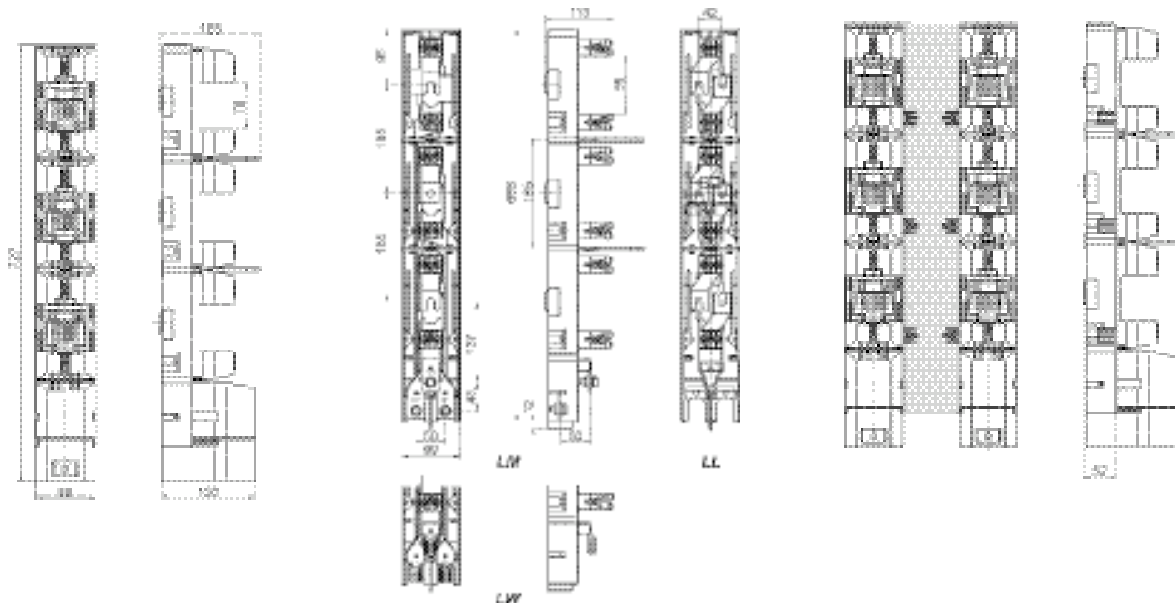
#### Ratings:

Volts: - 690V ac  
Amps: - 250 - 630A

**Applications:** Disconnecting cabinets and low voltage distribution switchboards with busbar spacing of 185mm

**Standards and Approvals:** CE, IEC EN 60269-1, IEC EN 60269-3-1

#### Dimensions:



#### Catalogue Numbers

| Size | Rating (A) | Part Reference   | Leading out Terminals                                                       |
|------|------------|------------------|-----------------------------------------------------------------------------|
| 1    | 250        | BFR1-3K/LM/C (*) | Pressed-in Nuts with M10 Screw                                              |
|      |            | BFR1-3K/LW       | V-Shaped Clamps                                                             |
|      |            | BFR1-3K/LL       | Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts |
| 2    | 400        | BFR2-3K/LM/C (*) | Pressed-in Nuts with M10 Screw                                              |
|      |            | BFR2-3K/LW       | V-Shaped Clamps                                                             |
|      |            | BFR2-3K/LL       | Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts |
| 3    | 630        | BFR3-3K/LM/C (*) | Pressed-in Nuts with M10 Screw                                              |
|      |            | BFR3-3K/LW       | V-Shaped Clamps                                                             |
|      |            | BFR3-3K/LL       | Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts |

(\*) with Leading-out Terminal cover

## NH Fuse Switch Disconnectors

### Vertical Style BFD 690V / 250 - 630A

#### Sizes 1, 2, 3A



#### Specifications

**Description:** Vertical Fuse Switch disconnectors are designed to be used with NH Fuses. Enabling safe connection and disconnection operations. Main features are:

- Measuring holes in the fuse cover
- Possibility to lock the fuse cover
- Label for protected circuit identification
- Busbar mounting with screws.

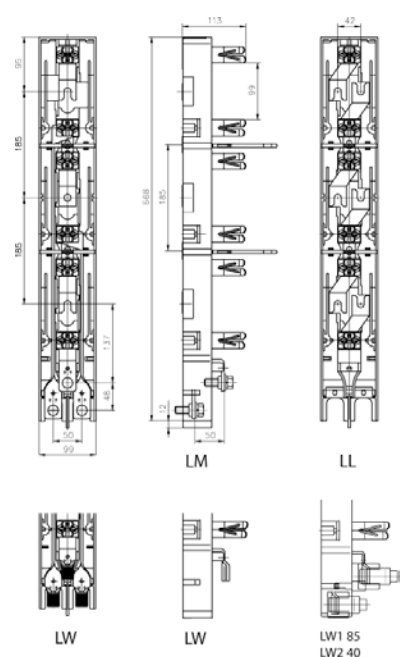
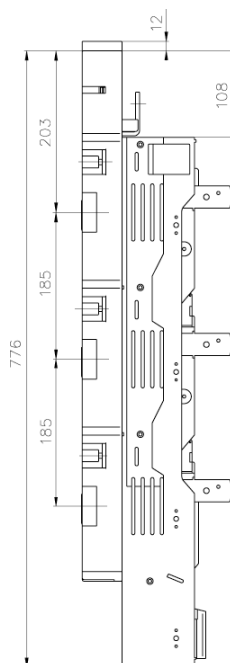
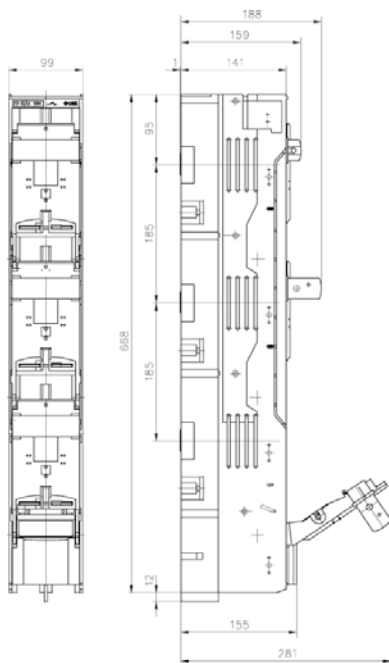
#### Ratings:

- Volts: - 690V ac  
Amps: - 250 - 630A  
Utilization - 400V ac - AC23B  
category - 690V ac - AC22B

**Applications:** Distribution and Industrial switchboards with busbar spacing of 185mm

**Approvals:** CE, IEC EN 60947-1, IEC EN 60947-3

#### Dimensions:



#### Catalogue Numbers

| Size | Rating (A) | Part Reference   |                   | Terminals                                                                                           | UP* |
|------|------------|------------------|-------------------|-----------------------------------------------------------------------------------------------------|-----|
|      |            | 1 Pole Switching | 3 Poles Switching |                                                                                                     |     |
| 1    | 250        | BFD1-31/LM       | BFD1-33/LM        | Pressed-in Nuts with M10 Screw                                                                      | 1   |
|      |            | BFD1-31/LW       | BFD1-33/LW        | V-shaped Clamps                                                                                     | 1   |
|      |            | BFD1-31/LL       | BFD1-33/LL        | Switch Disconnector for Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts | 1   |
| 2    | 400        | BFD2-31/LM       | BFD2-33/LW        | Pressed-in Nuts with M10 Screw                                                                      | 1   |
|      |            | BFD2-31/LW       | BFD2-33/LW        | V-Shaped Clamps                                                                                     | 1   |
|      |            | BFD2-31/LL       | BFD2-33/LL        | Switch Disconnector for Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts | 1   |
| 3    | 630        | BFD3-31/LM       | BFD3-33/LM        | Pressed-in Nuts with M12 Screw                                                                      | 1   |
|      |            | BFD3-31/LW       | BFD3-33/LW        | V-Shaped Clamps                                                                                     | 1   |
|      |            | BFD3-31/LL       | BFD3-33/LL        | Switch Disconnector for Busbar Systems<br>185mm Busbar Spacing<br>Connects to Busbar with M12 bolts | 1   |

\* UP = Unit Packing

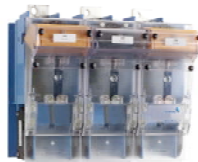
## NH Fuse Switch Disconnectors

### Horizontal Style

#### BFH

690V / 160 - 1600A

Sizes 000, 00, 1, 2, 3, 4A



#### Specifications

**Description:** Horizontal Switch disconnectors are designed to be used with NH Fuses. Enabling safe connection and disconnection operations. Main features are:

- Measuring holes in the fuse cover
- Possibility to lock the fuse cover
- Label for protected circuit identification
- Panel mounting with screws. On 35mm DIN Rail (only size 000)

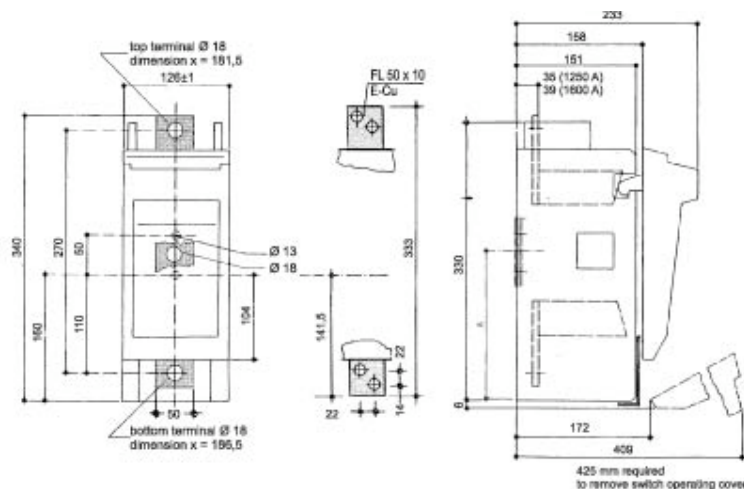
#### Ratings:

- Volts: - 690V ac / 250V dc (sizes 1,2,3) / 400V dc (size 000)
- Amps: - 160 - 1600A
- Utilization category
- 400V ac - AC23B
  - 500V ac - AC22B
  - 690V ac - AC21B
  - 250V dc - DC21B (sizes 1,2,3)
  - 250V dc - DC22B (sizes 000, 00)
  - 440V dc - DC20B

**Applications:** Industrial control panels, motor control panels

**Approvals:** CE, IEC EN 60947-1, IEC EN 60947-3

#### Dimensions:



#### Catalogue Numbers

| Size | Rating (A) | Catalogue Number |             | Terminals                                          | UP* |
|------|------------|------------------|-------------|----------------------------------------------------|-----|
|      |            | 1 Pole           | 3 Poles     |                                                    |     |
| 000  | 160        | BFH000-1A/T      | BFH000-3A/T | Terminal Clips for 1.5- to 50mm <sup>2</sup> cable | 1   |
| 00   | 160        | BFH00-1A/F       | BFH00-3A/F  | Terminal Screw M8                                  | 1   |
| 1    | 250        | BFH1-1A/F        | BFH1-3A/F   | Terminal Screws M10                                | 1   |
| 2    | 400        | BFH2-1A/F        | BFH2-3A/F   | Terminal Screws M10                                | 1   |
| 3    | 630        | BFH3-1A/F        | BFH3-3A/F   | Terminal Screws M12                                | 1   |
| 4A   | 1600       | LBS4/1           | LBS4/3      | Terminal Screws 2xM12                              | 1   |

\* UP = Unit Packing



## DO Fuses

**Class gG**  
**400V / 2 - 100A**

**Sizes D01, D02, D03**

### Specifications

**Description:** DO fuses, gG range, for industrial and domestic protection. All the fuses incorporate a visual display of fuse actuation. Additional range of fuse holders and accessories.

### Ratings:

Volts: - 690V ac  
Amps: - 160 - 1600A  
IR - 50kA - 400V ac

**Applications:** Protection of electrical distribution circuits, cables and electrical apparatus (with the exception of motors).

**Standards and Approvals:** IEC 60269, VDE 0636,

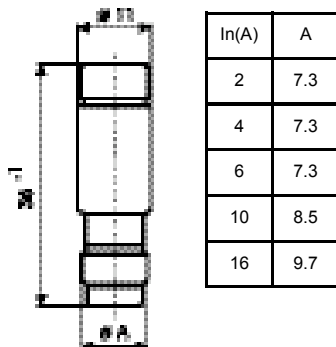
### Catalogue Numbers

| Size | Current (A) | Colour Code | Part Ref | Voltage (V) | Disconnection Power (kA) | Unit Packing |
|------|-------------|-------------|----------|-------------|--------------------------|--------------|
| D01  | 2           | Pink        | 2NZ01    | 400V        | 100kA                    | 10           |
|      | 4           | Brown       | 4NZ01    |             |                          |              |
|      | 6           | Green       | 6NZ01    |             |                          |              |
|      | 10          | Red         | 10NZ01   |             |                          |              |
|      | 16          | Grey        | 16NZ01   |             |                          |              |
| D02  | 20          | Blue        | 20NZ02   | 400V        | 100kA                    | 10           |
|      | 25          | Yellow      | 25NZ02   |             |                          |              |
|      | 35          | White       | 35NZ02   |             |                          |              |
|      | 50          | Black       | 50NZ02   |             |                          |              |
|      | 63          | Copper      | 63NZ02   |             |                          |              |
| D03  | 80          | Silver      | 80NZ03   | 400V        | 100kA                    | 10           |
|      | 100         | Red         | 100NZ03  |             |                          |              |

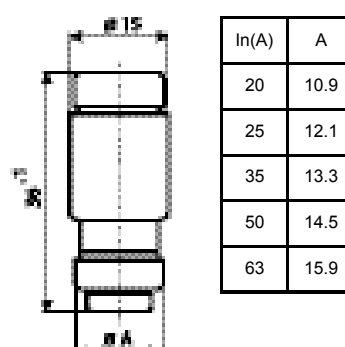


### Dimensions

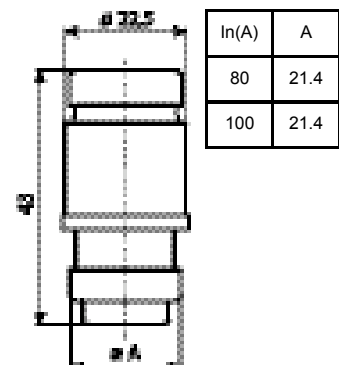
D01



D02



D03



## DO Fuseholders

**FN C , TFN C, FRN C, TFRN C**  
**400V / 16 - 100A**

**Sizes D01, D02, D03**



### Specifications

**Description:** DO fuse carriers in ceramic bodies with versions for securing to DIN rail or screw connection. Complete range of accessories.

### Ratings:

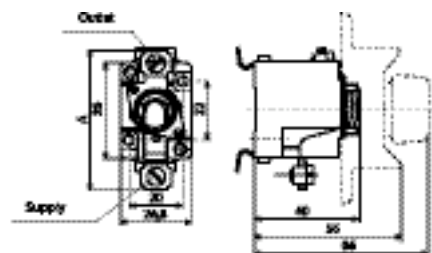
Volts: - 400V ac

Amps: - 16 - 100A

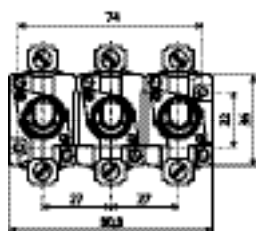
**Applications:** Protection of industrial circuits and electrical apparatus.

**Standards and Approvals:** IEC 60269, VDE 0636,

### Dimensions



| Size | A  |
|------|----|
| DO1  | 53 |
| DO2  | 57 |

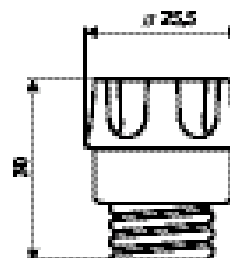
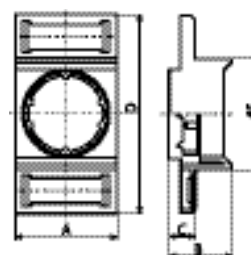


### Catalogue Numbers

| Size | Current (A) | Part Ref<br>Screw Connection |            | Part Ref<br>DIN Rail Connection |            | Unit<br>Packing   |
|------|-------------|------------------------------|------------|---------------------------------|------------|-------------------|
|      |             | Single Pole                  | Three Pole | Single Pole                     | Three Pole |                   |
| DO1  | 16A         | FN01C                        | TFN01C     | FRN01C                          | TFRN1C     | 15/5 (Three Pole) |
| DO2  | 63A         | FN02C                        | TFN02C     | FRN02C                          | TFRN2C     | 15/5 (Three Pole) |

### Accessories

| Accessories                   | Size       | Current (A)                | Fuse Base Type | References                                     | Unit Packing |
|-------------------------------|------------|----------------------------|----------------|------------------------------------------------|--------------|
| Fuse Carrier                  | DO1<br>DO2 | 16<br>63                   | E14<br>E18     | CN01<br>CN02                                   | 20           |
| Gauge/<br>Calibration<br>ring | DO1        | 2<br>4<br>6<br>10          | E14            | 2GN01<br>4GN01<br>6GN01<br>10GN01              | 50           |
|                               | DO2        | 16<br>20<br>25<br>35<br>50 | E18            | 16GN02<br>20GN02<br>25GN02<br>35GN02<br>50GN02 |              |
| Covers                        | DO1 1 pole | 16                         | E14            | SFPCDO1                                        | 50           |
|                               | DO2 1 pole | 63                         | E18            | SFPCDO2                                        |              |
|                               | DO1 3 pole | 16                         | E14            | TFPCDO1                                        | 30           |
|                               | DO2 3 pole | 63                         | E18            | TFPCDO2                                        |              |



## D Fuses

### Class gG 500V / 2 - 200A

#### Sizes: DI, DII, DIII, DIV, DV

#### Specifications

**Description:** D fuses, gG range, for industrial and domestic protection. All the fuses incorporate a visual display of fuse actuation. Additional range of fuse holders and accessories.

#### Ratings:

Volts: - 690V ac  
Amps: - 2 - 200A  
IR - 50kA - 500V ac

**Applications:** Protection of electrical distribution circuits, cables and electrical apparatus (with the exception of motors).

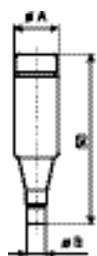
**Standards and Approvals:** IEC 60269, VDE 0636,

#### Dimensions

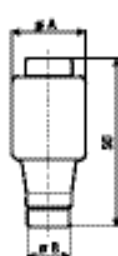


#### Catalogue Numbers

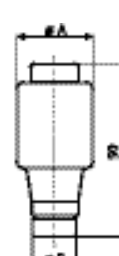
| Size | Current (A) | Colour Code | References | Voltage (V) | Disconnection Power (kA) | Unit Packing |
|------|-------------|-------------|------------|-------------|--------------------------|--------------|
| DI   | 2           | Pink        | 2D16       | 500V        | 100kA                    | 10           |
|      | 4           | Brown       | 4D16       |             |                          |              |
|      | 6           | Green       | 6D16       |             |                          |              |
|      | 10          | Red         | 10D16      |             |                          |              |
|      | 16          | Grey        | 16D16      |             |                          |              |
|      | 20          | Blue        | 20D16      |             |                          |              |
|      | 25          | Yellow      | 25D16      |             |                          |              |
| DII  | 2           | Pink        | 2D27       | 500V        | 100kA                    | 10           |
|      | 4           | Brown       | 4D27       |             |                          |              |
|      | 6           | Green       | 6D27       |             |                          |              |
|      | 10          | Red         | 10D27      |             |                          |              |
|      | 16          | Grey        | 16D27      |             |                          |              |
|      | 20          | Blue        | 20D27      |             |                          |              |
|      | 25          | Yellow      | 25D27      |             |                          |              |
| DIII | 35          | Black       | 35D33      | 500V        | 100kA                    | 10           |
|      | 50          | White       | 50D33      |             |                          |              |
|      | 63          | Copper      | 63D33      |             |                          |              |
| DIV  | 80          | Silver      | 80D125     | 500V        | 100kA                    | 10           |
|      | 100         | Red         | 100D125    |             |                          |              |



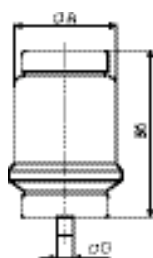
| Int (A) | A    | B  |
|---------|------|----|
| 2       | 13.2 | 6  |
| 4       |      | 6  |
| 6       |      | 6  |
| 10      |      | 8  |
| 16      |      | 10 |
| 20      |      | 12 |
| 25      |      | 14 |



| Int (A) | A    | B  |
|---------|------|----|
| 2       | 21.5 | 6  |
| 4       |      | 6  |
| 6       |      | 6  |
| 10      |      | 8  |
| 16      |      | 10 |
| 20      |      | 12 |
| 25      |      | 14 |



| Int (A) | A  | B  |
|---------|----|----|
| 35      | 27 | 16 |
| 50      | 27 | 16 |
| 63      | 27 | 18 |



| Int (A) | A  | B  |
|---------|----|----|
| 35      | 27 | 16 |
| 50      | 27 | 16 |

## D Fuseholders

**SFD, TFD, SFRD C , TFR**  
**500V / 25 - 63A**

**Sizes: DII, DIII**



### Specifications

**Description:** D fuse carriers in ceramic bodies with versions for securing to DIN rail or screw connection. Complete range of accessories.

### Ratings:

Volts: - 500V ac  
Amps: - 25 - 63A

**Applications:** Protection of industrial circuits and electrical apparatus.

**Standards and Approvals:** IEC 60269, VDE 0636,

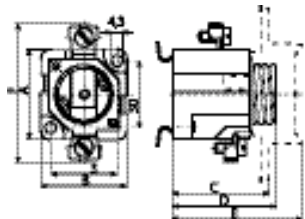
### Dimensions

### Catalogue Numbers

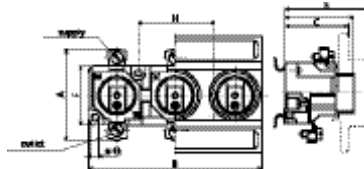
| Size | Current (A) | Part Ref<br>Screw Connection |            | Part Ref<br>DIN Rail Connection |            | Unit Packing          |
|------|-------------|------------------------------|------------|---------------------------------|------------|-----------------------|
|      |             | Single Pole                  | Three Pole | Single Pole                     | Three Pole |                       |
| DI   | 25A         | SFD27                        | TFD27      | SFRD27                          | TFRD27     | 15/4 (Three Terminal) |
| DIII | 63A         | SFD33                        | TFD33      | SFRD33                          | TFRD33     | 15/6 (Three Terminal) |

### Accessories

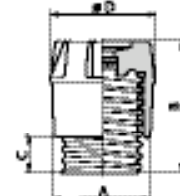
| Accessories             | Size        | Current (A) | Fuse Base Type | References | Unit Packing |
|-------------------------|-------------|-------------|----------------|------------|--------------|
| Fuse Carrier            | DII         | 25A         | E27            | CD27       | 50           |
|                         | DIII        | 63A         | E33            | CD33       | 30           |
| Gauge/ Calibration Ring | DII         | 2           | E27            | 2GD27      | 50           |
|                         |             | 4           |                | 4GD27      |              |
|                         |             | 6           |                | 6GD27      |              |
|                         |             | 10          |                | 10GD27     |              |
|                         |             | 16          |                | 16GD27     |              |
|                         |             | 20          |                | 20GD27     |              |
|                         |             | 25          |                | 25GD27     |              |
|                         | DIII        | 35          | E33            | 35GD33     | 50           |
|                         |             | 50          |                | 50GD33     |              |
|                         |             | 63          |                | 63GD33     |              |
| Covers                  | DII 1 pole  | 25          | E27            | SFPRD27    | 50           |
|                         | DIII 1 pole | 63          | E33            | SFPRD27    |              |
|                         | DII 3 pole  | 25          | E27            | TFPCD27    |              |
|                         | DIII 3 pole | 63          | E33            | TFPCD33    |              |



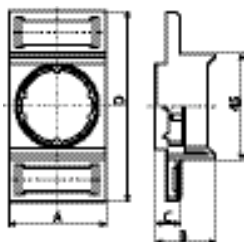
| Size | A  | B  | C  | D  | E  | F  |
|------|----|----|----|----|----|----|
| DII  | 41 | 39 | 44 | 47 | 60 | 62 |
| DIII | 43 | 47 | 44 | 47 | 56 | 79 |



| Size | A  | B   | C  | D  | E  | F  | G   | H  |
|------|----|-----|----|----|----|----|-----|----|
| DII  | 41 | 121 | 44 | 47 | 60 | 30 | 4.3 | 50 |
| DIII | 43 | 148 | 44 | 47 | 56 | 32 | 4.3 | 62 |



| Size | A | B  | C  | D  |
|------|---|----|----|----|
| DII  | E | 44 | 12 | 34 |
| DIII | E | 44 | 12 | 43 |



| 1 Pole | A  | B  | C    | D  |
|--------|----|----|------|----|
| DII    | 40 | 24 | 10.8 | 80 |
| DIII   | 49 | 21 | 9    | 80 |

| 3 Pole | A   | B  | C    | D  |
|--------|-----|----|------|----|
| DII    | 121 | 24 | 10.8 | 80 |
| DIII   | 148 | 21 | 9    | 80 |

### Other Low Voltage Fuse Ranges

---

#### North American Standard Fuses and Holders



##### Specifications

**Description:** Round fuses and holders in accordance with North American standards. Some ranges available with fuse actuation display.

Makes: CUBEFuse TM low-peak, Fusetron, Limitron, CC-Tron, Dura-LagTM, T-Tron, Optima.

Modular fuse holders (class CC, Midget and class J), fuse holders and isolator circuit-breakers.

##### Ratings:

Volts: - 125 to 600V ac  
Amps: - 100mA to 6000A  
IR - 300kA

**Applications:** General use for all types of protection and also motor protection.

**Standards and Approvals:** Classes UL and CSA certified (consult us for types)

**Dimensions:** Miniature, class CC, class RK5, class RK1, class J, class G, Midget, class L.

## Medium Voltage Fuses and Isolators

### Fuses for Voltage and Transformer Auxiliary Fuses



#### Specifications

**Description:** Medium Voltage fuses with low current values, which allow for the associated system to be isolated in the event of a fault in the transformer circuit.

#### Ratings:

Volts: - 1 to 36kV ac  
Amps: - 2 - 10A  
IR - 25 - 50kA

**Applications:** For use in the voltage transformer primary circuit and in transformer auxiliary elements, etc.

**Standards and Approvals:** BS2692-1, IEC 60282-1

**Dimensions:** Cylindrical body fuses with various length and diameter dimensions

### Other MV Fuses

#### DIN Fuses



#### Specifications

**Description:** Complete range of fuses (back-up, full range), and also motor protection.

#### Ratings:

Volts: - 12 to 36kV ac  
Amps: - 6.3 to 160A

**Dimensions:** DIN 43625, EN IEC 60782-1, VDE 0670-4

#### Oil Fuses



#### Specifications

**Description:** Fuses for use in oil-insulated isolators and circuit breakers. Fuses fitted with a pyrotechnic plunger.

#### Ratings:

Volts: - 3.6 to 24kV ac  
Amps: - 6.3 to 250A

**Dimensions:** BS 2692-1, ESI 12-8, EN IEC 60292-1

#### Starter Motor Fuses



#### Specifications

**Description:** Fuses to provide protection against short-circuit in motor and engine circuits.

#### Ratings:

Volts: - 3.6 to 7.2kV ac  
Amps: - 5 to 400A

**Dimensions:** Conform to British Standards, Standards UL and IEC DIN 43625

## Ultra Fast Fuses and Holders

### British Standard Fuses and Holders



#### Specifications

**Description:** Standard British ultra-fast fuses. Possibility of adapting side indicators and auxiliary micro-switch as accessories.

#### Ratings:

Volts: - 240 - 690V ac / 150 to 500V dc  
Amps: - 6 - 900A  
IR - 200ka RMS Sym

**Applications:** Protection of semiconductors, UPS (ASI), rectifiers, static relays, converters etc

**Standards and Approvals:** Conform to standards BS88-4, EN IEC 60269-5, UL recognized

**Dimensions:** Various fuses sizes in single or double cylindrical body

### North American Standard Fuses and Holders



#### Specifications

**Description:** Standard North American ultra-fast fuses. Fuse actuation display available on external and internal versions. Limited range of fuse bases

#### Ratings:

Volts: - 130 to 1000V ac / 130 to 800V dc  
Amps: - 1 to 4000A  
IR - 200kA RMS Sym

**Applications:** Protection of semiconductors, UPS (ASI), rectifiers, static relays, converters, etc.

**Standards and Approvals:** UL Recognised, CSA, Component Acceptance

**Dimensions:** There are no standard dimensions with these types of fuses.

## Ultra Fast Fuses and Holders

### Cylindrical Fuses and Holders



#### Specifications

**Description:** Ultra Fast cylindrical fuses. Standard ranges without fuses actuation indicator and ranges with fuse blown indicator. Modular fuse holders (type CH) for sizes 10x38, 14x51 and 22x58, with light display and ancillary elements. Fuse holders for size 22x58.

#### Ratings:

Volts: - 150 - 2000V ac / 150 to 1000V dc  
Amps: - 1 - 100A  
IR - 25 to 200kA RMS Sym

**Applications:** Protection of semi-conductors, UPS (ASI), rectifiers, static relays, converters.

**Standards and Approvals:** Conform to standards IEC 60269, UL Recognition, CSA Component Acceptance (consult us).

**Dimensions:** Variety of fuse sizes: from 6x32, 25x146

### Square Body Fuses and Holders



#### Specifications

**Description:** Ultra Fast square-body fuses, in versions with visual indicator and striker for use with auxiliary micro-switch. Fuses in formats DIN 43620, DIN 43653 (DIN 110 and DIN 80), French standard, North American standard.

Fuse bases to DIN 43620 and 43653.

#### Ratings:

Volts: - 690 to 3000V ac  
Amps: - 10 to 700A  
IR - 300kA RMS Sym

**Applications:** Protection of semiconductors, UPS (ASI), rectifiers, static relays, converters.

**Standards and Approvals:** Conform to standards IEC 60269-4, UL Recognition, CSA Component Acceptance (consult us).

**Dimensions:** Sizes 000, 00, 0, 1\*, 1, 2, 3, 4, 5



## Index

| Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page |
|------------------|------|------------------|------|------------------|------|------------------|------|
| 011-9127         | 18   | 100NHG01B-400    | 25   | 125NHG02BI       | 26   | 16NHG000B-690    | 27   |
| 011-9128         | 18   | 100NHG01BI       | 26   | 125NHG02BI-400   | 25   | 16NHG000BI       | 26   |
| 011-9129         | 18   | 100NHG01BI-400   | 25   | 125NHG0B         | 26   | 16NHG000BI-400   | 25   |
| 011-9483         | 18   | 100NHG02B        | 26   | 125NHG1B-690     | 27   | 16NHG000BI-690   | 27   |
| 011-9679         | 18   | 100NHG02B-400    | 25   | 125NHG1BI-690    | 27   | 16NHG01B         | 26   |
| 012-0140         | 18   | 100NHG02BI       | 26   | 125NHG1BS-690    | 30   | 16NHG01BI        | 26   |
| 012-0141         | 18   | 100NHG02BI-400   | 25   | 125NHG2B-690     | 27   | 16NHG0B          | 26   |
| 059-0067         | 18   | 100NHG0B         | 26   | 125NHG2BI-690    | 27   | 16NHG0B-690      | 27   |
| 059-0107         | 18   | 100NHG0B-690     | 27   | 125NHG2BS-690    | 30   | 16NHM000B-690    | 28   |
| 059-0108         | 18   | 100NHG1B-690     | 27   | 125NHM00B        | 28   | 16NHM000BI-690   | 28   |
| 059-0109         | 18   | 100NHG1BI-690    | 27   | 125NHM00BI       | 28   | 16NHM0B          | 28   |
| 059-0110         | 18   | 100NHG1BS-690    | 30   | 125NHM1B         | 28   | 16NZ01           | 35   |
| 059-0111         | 18   | 100NHG2B-690     | 27   | 125NHM1BI        | 28   | 200DF            | 19   |
| 059-0112         | 18   | 100NHG2BI-690    | 27   | 125NHM1BS-690    | 30   | 200M09-660       | 13   |
| 059-0113         | 18   | 100NHM00B        | 28   | 125NHM2B-690     | 28   | 200M13           | 14   |
| 059-0114         | 18   | 100NHM00BI       | 28   | 125NHM2BI-690    | 28   | 200M14-660       | 12   |
| 059-0115         | 18   | 100NHM0B         | 28   | 125NHM2BS-690    | 30   | 200M23           | 14   |
| 059-0116         | 18   | 100NHM1B         | 28   | 15KR85           | 16   | 200MJ25-6        | 16   |
| 059-0117         | 18   | 100NHM1BI        | 28   | 1600NH4AG        | 26   | 200MJ29-6        | 17   |
| 059-0118         | 18   | 100NHM1BS-690    | 30   | 160M09-660       | 13   | 200MJ30-7        | 17   |
| 059-0119         | 18   | 100NZ03          | 35   | 160M13           | 14   | 200MJ31-7        | 17   |
| 059-0120         | 18   | 10D16            | 37   | 160M14-660       | 12   | 200N11-660       | 13   |
| 059-0121         | 18   | 10D27            | 37   | 160M23           | 14   | 200N20           | 14   |
| 059-0122         | 18   | 10GD27           | 38   | 160MJ25-6        | 16   | 200NH1M          | 29   |
| 059-0123         | 18   | 10GN01           | 36   | 160MJ29-6        | 17   | 200NH2M          | 29   |
| 059-0124         | 18   | 10H07-660        | 12   | 160MJ30-7        | 17   | 200NHG02B        | 26   |
| 059-0125         | 18   | 10HS07           | 11   | 160MJ31-7        | 17   | 200NHG02B-400    | 25   |
| 059-0126         | 18   | 10K08-660        | 13   | 160N11-660       | 13   | 200NHG02BI       | 26   |
| 059-0127         | 18   | 10K09-660        | 13   | 160N20           | 14   | 200NHG02BI-400   | 25   |
| 059-0128         | 18   | 10KR85           | 16   | 160NH00M         | 29   | 200NHG1B         | 26   |
| 059-0129         | 18   | 10KS09           | 11   | 160NH0M          | 29   | 200NHG1B-400     | 25   |
| 059-0140         | 18   | 10NHC00M         | 29   | 160NH1M          | 29   | 200NHG1B-690     | 27   |
| 059-0141         | 18   | 10NHG000B        | 26   | 160NH2M          | 29   | 200NHG1BI        | 26   |
| 059-0142         | 18   | 10NHG000B-400    | 25   | 160NHG00B        | 26   | 200NHG1BI-400    | 25   |
| 059-0143         | 18   | 10NHG000B-690    | 27   | 160NHG00B-400    | 25   | 200NHG1BI-690    | 27   |
| 059-0144         | 18   | 10NHG000BI       | 26   | 160NHG00BI       | 26   | 200NHG1BS-690    | 30   |
| 059-0145         | 18   | 10NHG000BI-400   | 25   | 160NHG00BI-400   | 25   | 200NHG2B-690     | 27   |
| 059-0146         | 18   | 10NHG000BI-690   | 27   | 160NHG01B        | 26   | 200NHG2BI-690    | 27   |
| 059-0147         | 18   | 10NHG01B         | 26   | 160NHG01B-400    | 25   | 200NHG2BS-690    | 30   |
| 059-0148         | 18   | 10NHG01BI        | 26   | 160NHG01BI       | 26   | 200NHM1B         | 28   |
| 059-0149         | 18   | 10NHG0B          | 26   | 160NHG01BI-400   | 25   | 200NHM1BI        | 28   |
| 059-0150         | 18   | 10NHG0B-690      | 27   | 160NHG02B        | 26   | 200NHM1BS-690    | 30   |
| 059-0151         | 18   | 10NHM000B-690    | 28   | 160NHG02B-400    | 25   | 200NHM2B-690     | 28   |
| 059-0152         | 18   | 10NHM000BI-690   | 28   | 160NHG02BI       | 26   | 200NHM2BI-690    | 28   |
| 059-0153         | 18   | 10NHM0B          | 28   | 160NHG02BI-400   | 25   | 200NHM2BS-690    | 30   |
| 059-0154         | 18   | 10NZ01           | 35   | 160NHG0B         | 26   | 20D16            | 37   |
| 059-0155         | 18   | 1250NH4AG        | 26   | 160NHG1B-690     | 27   | 20D27            | 37   |
| 059-9925         | 18   | 1250NH4G-S       | 30   | 160NHG1BI-690    | 27   | 20GD27           | 38   |
| 059-9926         | 18   | 1250NHG4G        | 26   | 160NHG1BS-690    | 30   | 20GN02           | 36   |
| 1000NH4AG        | 26   | 125M09-660       | 13   | 160NHG2B-690     | 27   | 20H07-660        | 12   |
| 1000NH4G-S       | 30   | 125M13           | 14   | 160NHG2BI-690    | 27   | 20HS07           | 11   |
| 1000NHG4G        | 26   | 125M14-660       | 12   | 160NHG2BS-690    | 30   | 20K08-660        | 13   |
| 100D125          | 37   | 125M23           | 14   | 160NHM00B        | 28   | 20K09-660        | 13   |
| 100KR85          | 16   | 125MJ25-6        | 16   | 160NHM00BI       | 28   | 20KR85           | 16   |
| 100L09-660       | 13   | 125MJ30-7        | 17   | 160NHM1B         | 28   | 20KS09           | 11   |
| 100L14-660       | 12   | 125MJ31-7        | 17   | 160NHM1BI        | 28   | 20MJ25-6         | 16   |
| 100LR85          | 16   | 125N11-660       | 13   | 160NHM1BS-690    | 30   | 20MJ31-8         | 17   |
| 100MJ25-6        | 16   | 125N20           | 14   | 160NHM2B-690     | 28   | 20NHC00M         | 29   |
| 100MJ29-6        | 17   | 125NH00M         | 29   | 160NHM2BI-690    | 28   | 20NHG000B        | 26   |
| 100MJ30-7        | 17   | 125NH0M          | 29   | 160NHM2BS-690    | 30   | 20NHG000B-400    | 25   |
| 100MJ31-7        | 17   | 125NH1M          | 29   | 16D16            | 37   | 20NHG000B-690    | 27   |
| 100NH00M         | 29   | 125NH2M          | 29   | 16D27            | 37   | 20NHG000BI       | 26   |
| 100NH0M          | 29   | 125NHG00B        | 26   | 16GD27           | 38   | 20NHG000BI-400   | 25   |
| 100NH1M          | 29   | 125NHG00B-400    | 25   | 16GN02           | 36   | 20NHG000BI-690   | 27   |
| 100NH2M          | 29   | 125NHG00BI       | 26   | 16H07-660        | 12   | 20NHG01B         | 26   |
| 100NHG000B       | 26   | 125NHG00BI-400   | 25   | 16HS07           | 11   | 20NHG01BI        | 26   |
| 100NHG000B-400   | 25   | 125NHG01B        | 26   | 16K08-660        | 13   | 20NHG0B          | 26   |
| 100NHG000BI      | 26   | 125NHG01B-400    | 25   | 16K09-660        | 13   | 20NHG0B-690      | 27   |
| 100NHG000BI-400  | 25   | 125NHG01BI       | 26   | 16KS09           | 11   | 20NHM000B-690    | 28   |
| 100NHG00B-690    | 27   | 125NHG01BI-400   | 25   | 16NHC00M         | 29   | 20NHM000BI-690   | 28   |
| 100NHG00BI-690   | 27   | 125NHG02B        | 26   | 16NHG000B        | 26   | 20NHM0B          | 28   |
| 100NHG01B        | 26   | 125NHG02B-400    | 25   | 16NHG000B-400    | 25   | 20NZ02           | 35   |

## Index

| Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page |
|------------------|------|------------------|------|------------------|------|------------------|------|
| 224NHG02B        | 26   | 25NHG01B         | 26   | 32NHG000B-400    | 25   | 400NHG2BI        | 26   |
| 224NHG02B-400    | 25   | 25NHG01BI        | 26   | 32NHG000B-690    | 27   | 400NHG2BI-400    | 25   |
| 224NHG02BI       | 26   | 25NHG0B          | 26   | 32NHG000BI       | 26   | 400NHG3B-690     | 27   |
| 224NHG02BI-400   | 25   | 25NHG0B-690      | 27   | 32NHG000BI-400   | 25   | 400NHG3BI-690    | 27   |
| 224NHG1B         | 26   | 25NHM000B-690    | 28   | 32NHG000BI-690   | 27   | 400NHG3BS-690    | 30   |
| 224NHG1B-400     | 25   | 25NHM000BI-690   | 28   | 32NHG01B         | 26   | 400NHM2B         | 28   |
| 224NHG1B-690     | 27   | 25NHM0B          | 28   | 32NHG01BI        | 26   | 400NHM2BI        | 28   |
| 224NHG1BI        | 26   | 25NZ02           | 35   | 32NHG0B          | 26   | 400NHM2BS-690    | 30   |
| 224NHG1BI-400    | 25   | 2D16             | 37   | 32NHG0B-690      | 27   | 400NHM3B-690     | 28   |
| 224NHG1BI-690    | 27   | 2D27             | 37   | 32NHM000B-690    | 28   | 400NHM3BI-690    | 28   |
| 224NHG2B-690     | 27   | 2GD27            | 38   | 32NHM000BI-690   | 28   | 400NHM3BS-690    | 30   |
| 224NHG2BI-690    | 27   | 2GN01            | 36   | 32NHM0B          | 28   | 400P09-660       | 13   |
| 224NHG2BS-690    | 30   | 2H07-660         | 12   | 32NNL            | 20   | 400P11-660       | 13   |
| 224NHM1B         | 28   | 2K08-660         | 13   | 32NNSBS          | 20   | 400P12-660       | 13   |
| 224NHM1BI        | 28   | 2K09-660         | 13   | 32NNSF           | 20   | 400P20           | 14   |
| 224NHM1BS-690    | 30   | 2NHC00M          | 29   | 32NNSFBS         | 20   | 400P35           | 14   |
| 224NHM2B-690     | 28   | 2NHG000B         | 26   | 355NH2M          | 29   | 400PJ30-7        | 17   |
| 224NHM2BI-690    | 28   | 2NHG000B-400     | 25   | 355NHG03B        | 26   | 400PJ31-7        | 17   |
| 224NHM2BS-690    | 30   | 2NHG000B-690     | 27   | 355NHG03B-400    | 25   | 40K07-660        | 12   |
| 250M13           | 14   | 2NHG000BI        | 26   | 355NHG03BI       | 26   | 40K08-660        | 13   |
| 250MJ25-6        | 16   | 2NHG000BI-400    | 25   | 355NHG03BI-400   | 25   | 40K09-660        | 13   |
| 250MJ29-6        | 17   | 2NHG000BI-690    | 27   | 355NHG2B         | 26   | 40KR85           | 16   |
| 250MJ30-7        | 17   | 2NZ01            | 35   | 355NHG2B-400     | 25   | 40KS07           | 11   |
| 250MJ31-7        | 17   | 30KR85           | 16   | 355NHG2BI        | 26   | 40KS08           | 11   |
| 250N09-600       | 13   | 30LR85           | 16   | 355NHG2BI-400    | 25   | 40KS09           | 11   |
| 250N11-660       | 13   | 30NH00AD         | 23   | 355NHG3B-690     | 27   | 40LR85           | 16   |
| 250N15           | 14   | 315M13           | 14   | 355NHG3BI-690    | 27   | 40MJ25-6         | 16   |
| 250N20           | 14   | 315MJ30-7        | 17   | 355NHG3BS-690    | 30   | 40MJ30-8         | 17   |
| 250N34           | 14   | 315MJ31-7        | 17   | 355NHM2B-690     | 28   | 40MJ31-8         | 17   |
| 250NH1M          | 29   | 315N09-660       | 13   | 355NHM2BI-690    | 28   | 40NH1M           | 29   |
| 250NH2M          | 29   | 315N11-660       | 13   | 355NHM2BS-690    | 30   | 40NHC00M         | 29   |
| 250NHG02B        | 26   | 315N15           | 14   | 355NHM3B-690     | 28   | 40NHG000B        | 26   |
| 250NHG02B-400    | 25   | 315N20           | 14   | 355NHM3BI-690    | 28   | 40NHG000B-400    | 25   |
| 250NHG02BI       | 26   | 315N34           | 14   | 355P09-660       | 13   | 40NHG000B-690    | 27   |
| 250NHG02BI-400   | 25   | 315NH2M          | 29   | 355P11-660       | 13   | 40NHG000BI       | 26   |
| 250NHG03B        | 26   | 315NH3M          | 29   | 355P12-660       | 13   | 40NHG000BI-400   | 25   |
| 250NHG03BI-400   | 25   | 315NHG03B        | 26   | 355P20           | 14   | 40NHG000BI-690   | 27   |
| 250NHG03BI       | 26   | 315NHG03B-400    | 25   | 355P35           | 14   | 40NHG01B         | 26   |
| 250NHG03BI-400   | 25   | 315NHG03BI       | 26   | 355PJ30-7        | 17   | 40NHG01B-400     | 25   |
| 250NHG1B         | 26   | 315NHG03BI-400   | 25   | 355PJ31-7        | 17   | 40NHG01BI        | 26   |
| 250NHG1B-400     | 25   | 315NHG2B         | 26   | 35D33            | 37   | 40NHG01BI-400    | 25   |
| 250NHG1BI        | 26   | 315NHG2B-400     | 25   | 35GD33           | 38   | 40NHG02B         | 26   |
| 250NHG1BI-400    | 25   | 315NHG2B-690     | 27   | 35GN02           | 36   | 40NHG02B-400     | 25   |
| 250NHG1BI-690    | 27   | 315NHG2BI        | 26   | 35NHG000B        | 26   | 40NHG02BI        | 26   |
| 250NHG2B-690     | 27   | 315NHG2BI-400    | 25   | 35NHG000B-400    | 25   | 40NHG02BI-400    | 25   |
| 250NHG2BI-690    | 27   | 315NHG2BI-690    | 27   | 35NHG000B-690    | 27   | 40NHG0B          | 26   |
| 250NHG2BS-690    | 30   | 315NHG2BS-690    | 30   | 35NHG000BI       | 26   | 40NHG0B-690      | 27   |
| 250NHG3B-690     | 27   | 315NHG3B-690     | 27   | 35NHG000BI-400   | 25   | 40NHM000B-690    | 28   |
| 250NHG3BI-690    | 27   | 315NHG3BI-690    | 27   | 35NHG000BI-690   | 27   | 40NHM000BI-690   | 28   |
| 250NHM1B         | 28   | 315NHG3BS-690    | 30   | 35NHG01B         | 26   | 40NHM0B          | 28   |
| 250NHM1BI        | 28   | 315NHM2B-690     | 28   | 35NHG01B-400     | 25   | 450R11-660       | 13   |
| 250NHM1BS-690    | 30   | 315NHM2BI-690    | 28   | 35NHG01BI        | 26   | 450R12-660       | 13   |
| 250NHM2B-690     | 28   | 315NHM2BS-690    | 30   | 35NHG01BI-400    | 25   | 450R20           | 14   |
| 250NHM2BI-690    | 28   | 315NHM3B-690     | 28   | 35NHG02B         | 26   | 450R40           | 14   |
| 250NHM2BS-690    | 30   | 315NHM3BI-690    | 28   | 35NHG02B-400     | 25   | 450RJ31-7        | 17   |
| 25D16            | 37   | 32BS             | 19   | 35NHG02BI        | 26   | 45KR85           | 16   |
| 25D27            | 37   | 32BSC            | 19   | 35NHG02BI-400    | 25   | 45NH00AD         | 23   |
| 25GD27           | 38   | 32CML            | 19   | 35NHG0B          | 26   | 4D16             | 37   |
| 25GN02           | 36   | 32CMLC           | 19   | 35NHG0B-690      | 27   | 4D27             | 37   |
| 25H07-660        | 12   | 32H07-660        | 12   | 35NHM000B-690    | 28   | 4GD27            | 38   |
| 25HS07           | 11   | 32HS07           | 11   | 35NHM000BI-690   | 28   | 4GN01            | 36   |
| 25KR85           | 16   | 32K08-660        | 13   | 35NHM0B          | 28   | 4H07-660         | 12   |
| 25KS09           | 11   | 32K09-660        | 13   | 35NZ02           | 35   | 4K08-660         | 13   |
| 25MJ31-8         | 17   | 32KS09           | 11   | 400EF            | 19   | 4K09-660         | 13   |
| 25NHC00M         | 29   | 32LSC            | 19   | 400NH2M          | 29   | 4NHC00M          | 29   |
| 25NHG000B        | 26   | 32LSCC           | 19   | 400NH3M          | 29   | 4NHG000B         | 26   |
| 25NHG000B-400    | 25   | 32MJ25-6         | 16   | 400NHG03B        | 26   | 4NHG000B-400     | 25   |
| 25NHG000B-690    | 27   | 32MJ30-8         | 17   | 400NHG03B-400    | 25   | 4NHG000B-690     | 27   |
| 25NHG000BI       | 26   | 32MJ31-8         | 17   | 400NHG03BI       | 26   | 4NHG000BI        | 26   |
| 25NHG000BI-400   | 25   | 32NH0M           | 29   | 400NHG03BI-400   | 25   | 4NHG000BI-400    | 25   |
| 25NHG000BI-690   | 27   | 32NHC00M         | 29   | 400NHG2B         | 26   | 4NHG000BI-690    | 27   |
|                  |      | 32NHG000B        | 26   | 400NHG2B-400     | 25   | 4NZ01            | 35   |

## Index

| Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page |
|------------------|------|------------------|------|------------------|------|------------------|------|
| 500NH3M          | 29   | 630NHG3BI        | 26   | 6NHG0B-690       | 27   | AC4              | 8    |
| 500NH4G-S        | 30   | 630NHG3BI-400    | 25   | 6NHM000B-690     | 28   | AC6              | 8    |
| 500NHG3B         | 26   | 630NHG3BS-690    | 30   | 6NHM000BI-690    | 28   | AD10             | 8    |
| 500NHG3B-400     | 25   | 630NHG4G         | 26   | 6NHM0B           | 28   | AD16             | 8    |
| 500NHG3B-690     | 27   | 630NHM3B         | 28   | 6NZ01            | 35   | AD2              | 8    |
| 500NHG3BI        | 26   | 630NHM3BI        | 28   | 70KR85           | 16   | AD20             | 8    |
| 500NHG3BI-400    | 25   | 630NHM3BS-690    | 30   | 710S20           | 14   | AD25             | 8    |
| 500NHG3BI-690    | 27   | 630R11-660       | 13   | 800NH4AG         | 26   | AD32             | 8    |
| 500NHG3BS-690    | 30   | 630R12-660       | 13   | 800NH4G-S        | 30   | AD4              | 8    |
| 500NHG4G         | 26   | 630R20           | 14   | 800NHG4G         | 26   | AD6              | 8    |
| 500NHM3B-690     | 28   | 630SJ31-6        | 17   | 800S20           | 14   | BAO35            | 6    |
| 500NHM3BI-690    | 28   | 63D33            | 37   | 800SJ28          | 17   | BAO40            | 6    |
| 500NHM3BS-690    | 30   | 63ENL            | 20   | 80D125           | 37   | BAO50            | 6    |
| 500R11-660       | 13   | 63ENSBS          | 20   | 80KR85           | 16   | BAO63            | 6    |
| 500R12-660       | 13   | 63ENSF           | 20   | 80L09-660        | 13   | BAO63M100        | 6    |
| 500R20           | 14   | 63ENSFBS         | 20   | 80L14-660        | 12   | BAO63M80         | 6    |
| 500R40           | 14   | 63GD33           | 38   | 80LR85           | 16   | BC0              | 32   |
| 500RJ31-7        | 17   | 63K07-660        | 12   | 80MJ25-6         | 16   | BC00             | 32   |
| 50D33            | 37   | 63K08-660        | 13   | 80MJ29-6         | 17   | BC1-2            | 32   |
| 50GD33           | 38   | 63K09-660        | 13   | 80MJ30-7         | 17   | BC3              | 32   |
| 50GN02           | 36   | 63KS07           | 11   | 80MJ31-7         | 17   | BC40             | 8    |
| 50K07-660        | 12   | 63KS08           | 11   | 80NH00M          | 29   | BC50             | 8    |
| 50K08-660        | 13   | 63KS09           | 11   | 80NH0M           | 29   | BC63             | 8    |
| 50K09-660        | 13   | 63MJ25-6         | 16   | 80NH1M           | 29   | BC63M100         | 8    |
| 50KR85           | 16   | 63MJ29-6         | 17   | 80NHG000B        | 26   | BC63M80          | 8    |
| 50KS07           | 11   | 63MJ30-8         | 17   | 80NHG000BI-400   | 25   | BD40             | 8    |
| 50KS08           | 11   | 63MJ31-8         | 17   | 80NHG000BI       | 26   | BD50             | 8    |
| 50KS09           | 11   | 63NH00M          | 29   | 80NHG000BI-400   | 25   | BD63             | 8    |
| 50LR85           | 16   | 63NH0M           | 29   | 80NHG00B-690     | 27   | BFD1-31/LL       | 40   |
| 50MJ30-8         | 17   | 63NH1M           | 29   | 80NHG00BI-690    | 27   | BFD1-31/LM       | 40   |
| 50MJ31-8         | 17   | 63NHG000B        | 26   | 80NHG01B         | 26   | BFD1-31/LW       | 40   |
| 50NH0M           | 29   | 63NHG000B-400    | 25   | 80NHG01B-40      | 25   | BFD1-33/LL       | 40   |
| 50NH1M           | 29   | 63NHG000BI       | 26   | 80NHG01BI        | 26   | BFD1-33/LM       | 40   |
| 50NHC00M         | 29   | 63NHG000BI-400   | 25   | 80NHG01BI-400    | 25   | BFD1-33/LW       | 40   |
| 50NHG000B        | 26   | 63NHG00B-690     | 27   | 80NHG02B         | 26   | BFD2-31/LL       | 40   |
| 50NHG000B-400    | 25   | 63NHG00BI-690    | 27   | 80NHG02B-400     | 25   | BFD2-31/LM       | 40   |
| 50NHG000BI       | 26   | 63NHG01B         | 26   | 80NHG02BI        | 26   | BFD2-31/LW       | 40   |
| 50NHG000BI-400   | 25   | 63NHG01B-400     | 25   | 80NHG02BI-400    | 25   | BFD2-33/LL       | 40   |
| 50NHG00B-690     | 27   | 63NHG01BI        | 26   | 80NHG0B          | 26   | BFD2-33/LM       | 40   |
| 50NHG00BI-690    | 27   | 63NHG01BI-400    | 25   | 80NHG0B-690      | 27   | BFD2-33/LW       | 40   |
| 50NHG01B         | 26   | 63NHG02B         | 26   | 80NHG1B-690      | 27   | BFD3-31/LL       | 40   |
| 50NHG01B-400     | 25   | 63NHG02B-400     | 25   | 80NHG1BI-690     | 27   | BFD3-31/LM       | 40   |
| 50NHG01BI        | 26   | 63NHG02BI        | 26   | 80NHG1BS-690     | 30   | BFD3-31/LW       | 40   |
| 50NHG01BI-400    | 25   | 63NHG02BI-400    | 25   | 80NHG2B-690      | 27   | BFD3-33/LL       | 40   |
| 50NHG02B         | 26   | 63NHG0B          | 26   | 80NHG2BI-690     | 27   | BFD3-33/LM       | 40   |
| 50NHG02B-400     | 25   | 63NHG0B-690      | 27   | 80NHM00B         | 28   | BFD3-33/LW       | 40   |
| 50NHG02BI        | 26   | 63NHG1B-690      | 27   | 80NHM00BI        | 28   | BFH000-1A/T      | 41   |
| 50NHG02BI-400    | 25   | 63NHG1BI-690     | 27   | 80NHM0B          | 28   | BFH000-3A/T      | 41   |
| 50NHG0B          | 26   | 63NHG1BS-690     | 30   | 80NHM1B          | 28   | BFH00-1A/F       | 41   |
| 50NHG0B-690      | 27   | 63NHG2B-690      | 27   | 80NHM1BI         | 28   | BFH00-3A/F       | 41   |
| 50NHG1B-690      | 27   | 63NHG2BI-690     | 27   | 80NHM1BS-690     | 30   | BFH1-1A/F        | 41   |
| 50NHG1BI-690     | 27   | 63NHM00B         | 28   | 80NZ03           | 35   | BFH1-3A/F        | 41   |
| 50NHM00B         | 28   | 63NHM00BI        | 28   | 900NH4AG         | 26   | BFH2-1A/F        | 41   |
| 50NHM00BI        | 28   | 63NHM0B          | 28   | 90KR85           | 16   | BFH2-3A/F        | 41   |
| 50NHM0B          | 28   | 63NHM1B-690      | 28   | 90NH00AD         | 23   | BFH3-1A/F        | 41   |
| 50NZ02           | 35   | 63NHM1BI-690     | 28   | AAO10            | 5    | BFH3-3A/F        | 41   |
| 560R11-660       | 13   | 63NHM1BS-690     | 30   | AAO16            | 5    | BFR1-3K/LL       | 39   |
| 560R12-660       | 13   | 63NZ02           | 35   | AAO2             | 5    | BFR1-3K/LM/C     | 39   |
| 560R20           | 14   | 6D16             | 37   | AAO20            | 5    | BFR1-3K/LW       | 39   |
| 560SJ31-6        | 17   | 6D27             | 37   | AAO25            | 5    | BFR2-3K/LL       | 39   |
| 5KR85            | 16   | 6GD27            | 38   | AAO32            | 5    | BFR2-3K/LM/C     | 39   |
| 60KR85           | 16   | 6GN01            | 36   | AAO32M40         | 5    | BFR2-3K/LW       | 39   |
| 60LR85           | 16   | 6H07-660         | 12   | AAO32M50         | 5    | BFR3-3K/LL       | 39   |
| 60NH00AD         | 23   | 6K08-660         | 13   | AAO32M63         | 5    | BFR3-3K/LM/C     | 39   |
| 63/100BS         | 19   | 6K09-660         | 13   | AAO4             | 5    | BFR3-3K/LW       | 39   |
| 63/100CML        | 19   | 6NHC00M          | 29   | AAO6             | 5    | C08G0.5          | 21   |
| 63/100LSC        | 19   | 6NHG000B         | 26   | AC10             | 8    | C08G1            | 21   |
| 630NH3M          | 29   | 6NHG000B-400     | 25   | AC16             | 8    | C08G10           | 21   |
| 630NH4AG         | 26   | 6NHG000B-690     | 27   | AC2              | 8    | C08G10I          | 21   |
| 630NH4G-S        | 30   | 6NHG000BI        | 26   | AC20             | 8    | C08G12           | 21   |
| 630NHG3B         | 26   | 6NHG000BI-400    | 25   | AC25             | 8    | C08G12I          | 21   |
| 630NHG3B-400     | 25   | 6NHG000BI-690    | 27   | AC32             | 8    | C08G16           | 21   |

## Index

| Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page |
|------------------|------|------------------|------|------------------|------|------------------|------|
| C08G16I          | 21   | C14G20I          | 21   | C180-2A          | 4    | C22M32           | 22   |
| C08G2            | 21   | C14G20S          | 21   | C180-3A          | 4    | C22M32I          | 22   |
| C08G20           | 21   | C14G25           | 21   | C180-5A          | 4    | C22M32S          | 22   |
| C08G20I          | 21   | C14G25I          | 21   | C180-7A          | 4    | C22M4            | 22   |
| C08G25           | 21   | C14G25S          | 21   | C22G10           | 21   | C22M40           | 22   |
| C08G25I          | 21   | C14G2I           | 21   | C22G100          | 21   | C22M40I          | 22   |
| C08G2I           | 21   | C14G2S           | 21   | C22G100I         | 21   | C22M40S          | 22   |
| C08G4            | 21   | C14G32           | 21   | C22G100S         | 21   | C22M4I           | 22   |
| C08G4I           | 21   | C14G32I          | 21   | C22G10I          | 21   | C22M50           | 22   |
| C08G6            | 21   | C14G32S          | 21   | C22G10S          | 21   | C22M50I          | 22   |
| C08G6I           | 21   | C14G4            | 21   | C22G12           | 21   | C22M50S          | 22   |
| C08G8            | 21   | C14G40           | 21   | C22G125          | 21   | C22M6            | 22   |
| C08G8I           | 21   | C14G40I          | 21   | C22G125I         | 21   | C22M63           | 22   |
| C10G0.5          | 21   | C14G40S          | 21   | C22G125S         | 21   | C22M63I          | 22   |
| C10G1            | 21   | C14G45S          | 21   | C22G12I          | 21   | C22M63S          | 22   |
| C10G10           | 21   | C14G4I           | 21   | C22G12S          | 21   | C22M6I           | 22   |
| C10G10I          | 21   | C14G4S           | 21   | C22G16           | 21   | C22M8            | 22   |
| C10G12           | 21   | C14G50           | 21   | C22G16I          | 21   | C22M80           | 22   |
| C10G12I          | 21   | C14G50I          | 21   | C22G16S          | 21   | C22M80I          | 22   |
| C10G16           | 21   | C14G50S          | 21   | C22G2            | 21   | C22M80S          | 22   |
| C10G16I          | 21   | C14G6            | 21   | C22G20           | 21   | C22M8I           | 22   |
| C10G2            | 21   | C14G6I           | 21   | C22G20I          | 21   | C22NL            | 22   |
| C10G20           | 21   | C14G6S           | 21   | C22G20S          | 21   | C3030            | 4    |
| C10G20I          | 21   | C14G8            | 21   | C22G25           | 21   | C4545            | 4    |
| C10G25           | 21   | C14G8I           | 21   | C22G25I          | 21   | C55              | 4    |
| C10G25I          | 21   | C14G8S           | 21   | C22G25S          | 21   | C8M10            | 22   |
| C10G2I           | 21   | C14M0.25         | 22   | C22G2I           | 21   | C8M10I           | 22   |
| C10G32           | 21   | C14M0.50         | 22   | C22G32           | 21   | C8M12            | 22   |
| C10G32I          | 21   | C14M1            | 22   | C22G32I          | 21   | C8M12I           | 22   |
| C10G4            | 21   | C14M10           | 22   | C22G32S          | 21   | C8M16            | 22   |
| C10G4I           | 21   | C14M10I          | 22   | C22G4            | 21   | C8M16I           | 22   |
| C10G6            | 21   | C14M10S          | 22   | C22G40           | 21   | C8M2             | 22   |
| C10G6I           | 21   | C14M12           | 22   | C22G40I          | 21   | C8M20            | 22   |
| C10G8            | 21   | C14M12I          | 22   | C22G40S          | 21   | C8M20I           | 22   |
| C10G8I           | 21   | C14M12S          | 22   | C22G4I           | 21   | C8M25            | 22   |
| C10M0.16         | 22   | C14M16           | 22   | C22G4S           | 21   | C8M2I            | 22   |
| C10M0.25         | 22   | C14M16I          | 22   | C22G50           | 21   | C8M4             | 22   |
| C10M0.5          | 22   | C14M16S          | 22   | C22G50I          | 21   | C8M4I            | 22   |
| C10M1            | 22   | C14M1I           | 22   | C22G50S          | 21   | C8M6             | 22   |
| C10M10           | 22   | C14M2            | 22   | C22G6            | 21   | C8M6I            | 22   |
| C10M10I          | 22   | C14M20           | 22   | C22G63           | 21   | C8M8             | 22   |
| C10M12           | 22   | C14M20I          | 22   | C22G63I          | 21   | C8NL             | 22   |
| C10M12I          | 22   | C14M20S          | 22   | C22G63S          | 21   | CA10D15          | 23   |
| C10M16           | 22   | C14M25           | 22   | C22G6I           | 21   | CA14D30          | 23   |
| C10M16I          | 22   | C14M25I          | 22   | C22G6S           | 21   | CA22D15          | 23   |
| C10M1I           | 22   | C14M25S          | 22   | C22G8            | 21   | CA22D30          | 23   |
| C10M2            | 22   | C14M2I           | 22   | C22G80           | 21   | CA22D45          | 23   |
| C10M20           | 22   | C14M2S           | 22   | C22G80I          | 21   | CA22D60          | 23   |
| C10M20I          | 22   | C14M32           | 22   | C22G80S          | 21   | CD0623G2         | 22   |
| C10M25           | 22   | C14M32I          | 22   | C22G8I           | 21   | CD0623G4         | 22   |
| C10M25I          | 22   | C14M32S          | 22   | C22G8S           | 21   | CD0623G6         | 22   |
| C10M2I           | 22   | C14M4            | 22   | C22M10           | 22   | CD0823G10        | 22   |
| C10M32           | 22   | C14M40           | 22   | C22M100          | 22   | CD0823G10I       | 22   |
| C10M32I          | 22   | C14M40I          | 22   | C22M100I         | 22   | CD0823G16        | 22   |
| C10M4            | 22   | C14M40S          | 22   | C22M100S         | 22   | CD0823G16I       | 22   |
| C10M4I           | 22   | C14M4I           | 22   | C22M10I          | 22   | CD0823G2         | 22   |
| C10M6            | 22   | C14M4S           | 22   | C22M12           | 22   | CD0823G2I        | 22   |
| C10M6I           | 22   | C14M50           | 22   | C22M125          | 22   | CD0823G4         | 22   |
| C10M8            | 22   | C14M50I          | 22   | C22M125I         | 22   | CD0823G4I        | 22   |
| C10M8I           | 22   | C14M50S          | 22   | C22M125S         | 22   | CD0823G6         | 22   |
| C10NL            | 22   | C14M6            | 22   | C22M12I          | 22   | CD0823G6I        | 22   |
| C14G10           | 21   | C14M6I           | 22   | C22M16           | 22   | CD0831G0.5       | 22   |
| C14G10I          | 21   | C14M6S           | 22   | C22M16I          | 22   | CD0831G1         | 22   |
| C14G10S          | 21   | C14M8            | 22   | C22M16S          | 22   | CD0831G10        | 22   |
| C14G12           | 21   | C14M8I           | 22   | C22M2            | 22   | CD0831G10I       | 22   |
| C14G12I          | 21   | C14M8S           | 22   | C22M20           | 22   | CD0831G12        | 22   |
| C14G12S          | 21   | C14NL            | 22   | C22M20I          | 22   | CD0831G12I       | 22   |
| C14G16           | 21   | C1515            | 4    | C22M20S          | 22   | CD0831G16        | 22   |
| C14G16I          | 21   | C1520            | 4    | C22M25           | 22   | CD0831G2         | 22   |
| c14G16S          | 21   | C180-10A         | 4    | C22M25I          | 22   | CD0831G20        | 22   |
| C14G2            | 21   | C180-13A         | 4    | C22M25S          | 22   | CD0831G20I       | 22   |
| C14G20           | 21   | C180-1A          | 4    | C22M2I           | 22   | CD0831G25        | 22   |

## Index

| Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page | Catalogue Number | Page |
|------------------|------|------------------|------|------------------|------|------------------|------|
| CD0831G25I       | 22   | CH141DI          | 24   | ED250            | 8    | M-CEO100         | 11   |
| CD0831G2I        | 22   | CH141DMS         | 24   | ED315            | 8    | M-CEO80          | 11   |
| CD0831G4         | 22   | CH141DMS-F       | 24   | ED315M400        | 8    | M-CM100F         | 11   |
| CD0831G4I        | 22   | CH141DN          | 24   | ED355            | 8    | M-CM20F          | 11   |
| CD0831G6         | 22   | CH141DNI         | 24   | ED400            | 8    | M-CM32F          | 11   |
| CD0831G6I        | 22   | CH141DNX         | 24   | ED400M500        | 8    | M-CM32FC         | 11   |
| CD0831G8         | 22   | CH142D           | 24   | EF355            | 9    | M-CM63F          | 11   |
| CD0836G10        | 22   | CH142DI          | 24   | EF400            | 9    | M-NITD10         | 11   |
| CD0836G10I       | 22   | CH143D           | 24   | EF400M500        | 9    | M-NITD16         | 11   |
| CD0836G16        | 22   | CH143DI          | 24   | EFS125           | 9    | M-NITD2          | 11   |
| CD0836G16I       | 22   | CH143DMS         | 24   | EFS160           | 9    | M-NITD20         | 11   |
| CD0836G2         | 22   | CH143DMS-F       | 24   | EFS200           | 9    | M-NITD32         | 11   |
| CD0836G20        | 22   | CH143DN          | 24   | EFS250           | 9    | M-NITD6          | 11   |
| CD0836G20I       | 22   | CH143DNI         | 24   | EFS315           | 9    | M-NSD10          | 11   |
| CD0836G25        | 22   | CH143DNMS        | 24   | ESD10            | 10   | M-NSD16          | 11   |
| CD0836G25I       | 22   | CH143DNMS-F      | 24   | ESD16            | 10   | M-NSD20          | 11   |
| CD0836G2I        | 22   | CH144D           | 24   | ESD2             | 10   | M-NSD32          | 11   |
| CD0836G32        | 22   | CH144DI          | 24   | ESD20            | 10   | M-NSD4           | 11   |
| CD0836G32I       | 22   | CH14-HP          | 24   | ESD32            | 10   | M-NSD6           | 11   |
| CD0836G4         | 22   | CH14MS-1D        | 24   | ESD4             | 10   | M-STD10          | 11   |
| CD0836G4I        | 22   | CH14MS-3D        | 24   | ESD40            | 10   | M-STD6           | 11   |
| CD0836G6         | 22   | CH221D           | 24   | ESD50            | 10   | NI               | 19   |
| CD0836G6I        | 22   | CH221DMS         | 24   | ESD6             | 10   | NITD10           | 5    |
| CD100            | 8    | CH221DN          | 24   | ESD63            | 10   | NITD16           | 5    |
| CD100M125        | 8    | CH221DNX         | 24   | ESD63M100        | 10   | NITD2            | 5    |
| CD100M160        | 8    | CH222D           | 24   | ESD63M80         | 10   | NITD20           | 5    |
| CD100M200        | 8    | CH223D           | 24   | FC0              | 32   | NITD20M25        | 5    |
| CD1025G10        | 22   | CH223DMS         | 24   | FC00             | 32   | NITD20M32        | 5    |
| CD1025G10I       | 22   | CH223DN          | 24   | FC1              | 32   | NITD25           | 5    |
| CD1025G16        | 22   | CH224D           | 24   | FC2              | 32   | NITD32           | 5    |
| CD1025G16I       | 22   | CH22MDNMS        | 24   | FC3              | 32   | NITD32M40        | 5    |
| CD1025G6         | 22   | CH810-HP         | 23   | FEH              | 32   | NITD32M50        | 5    |
| CD1025G6I        | 22   | CHM1D            | 23   | FF400            | 9    | NITD32M63        | 5    |
| CD1031G16        | 22   | CHM1DI           | 23   | FF500            | 9    | NITD4            | 5    |
| CD1031G16I       | 22   | CHM1DN           | 23   | FF560            | 9    | NITD6            | 5    |
| CD1031G20        | 22   | CHM1DNI          | 23   | FF630            | 9    | NSD10            | 10   |
| CD1031G20I       | 22   | CHM1DNS          | 23   | FG450            | 9    | NSD16            | 10   |
| CD1031G25        | 22   | CHM1DNSI         | 23   | FG500            | 9    | NSD2             | 10   |
| CD1031G25I       | 22   | CHM2D            | 23   | FG560            | 9    | NSD20            | 10   |
| CD1038G25        | 22   | CHM2DI           | 23   | FG630            | 9    | NSD20M25         | 10   |
| CD1038G25I       | 22   | CHM3D            | 23   | FN01C            | 36   | NSD20M32         | 10   |
| CD1038G32        | 22   | CHM3DI           | 23   | FN02C            | 36   | NSD20M36         | 10   |
| CD1038G32I       | 22   | CHM3DN           | 23   | FRN01C           | 36   | NSD32            | 10   |
| CD27             | 38   | CHM3DNI          | 23   | FRN02C           | 36   | NSD32M36         | 10   |
| CD33             | 38   | CHM3DNS          | 23   | GF1000           | 9    | NSD32M40         | 10   |
| CD80             | 8    | CHM3DNSI         | 23   | GF1250           | 9    | NSD32M50         | 10   |
| CEO100           | 6    | CHM4D            | 23   | GF710            | 9    | NSD32M63         | 10   |
| CEO100M125       | 6    | CHM4DI           | 23   | GF800            | 9    | NSD4             | 10   |
| CEO100M160       | 6    | CHMDNX           | 23   | GG1000           | 9    | NSD6             | 10   |
| CEO100M200       | 6    | CM100F           | 19   | GG1250           | 9    | OSD100           | 7    |
| CEO32            | 6    | CM20F            | 19   | GG710            | 9    | OSD100M125       | 7    |
| CEO40            | 6    | CM32F            | 19   | GG800            | 9    | OSD100M160       | 7    |
| CEO50            | 6    | CM32FC           | 19   | GH1000           | 9    | OSD80            | 7    |
| CEO63            | 6    | CM63F            | 19   | GH1250           | 9    | SB00-D           | 32   |
| CEO80            | 6    | CMSC             | 19   | GH710            | 9    | SB0-D            | 32   |
| CH081D           | 23   | CN01             | 36   | GH800            | 9    | SB0-DMS          | 32   |
| CH081DI          | 23   | CN02             | 36   | GLP              | 19   | SB1-D            | 32   |
| CH081DN          | 23   | CS0              | 32   | LBS4/1           | 41   | SB1-DMS          | 32   |
| CH081DNI         | 23   | CS00             | 32   | LBS4/3           | 41   | SB2-D            | 32   |
| CH081DNS         | 23   | CS1              | 32   | M-32NNSF         | 11   | SB2-DMS          | 32   |
| CH081DNSI        | 23   | CS2              | 32   | M-63ENSF         | 11   | SB3-D            | 32   |
| CH082D           | 23   | CS3              | 32   | M-AAO10          | 11   | SB3-DMS          | 32   |
| CH082DI          | 23   | DD125            | 8    | M-AAO16          | 11   | SB4-DMS          | 32   |
| CH083D           | 23   | DD160            | 8    | M-AAO20          | 11   | SB4-S            | 32   |
| CH083DI          | 23   | DD200            | 8    | M-AAO25          | 11   | SFD27            | 38   |
| CH083DN          | 23   | DD200M250        | 8    | M-BAO40          | 11   | SFD33            | 38   |
| CH083DNI         | 23   | DD200M315        | 8    | M-BAO50          | 11   | SFPCDO1          | 36   |
| CH083DNS         | 23   | DEO125           | 7    | M-BAO63          | 11   | SFPCDO2          | 36   |
| CH083DNSI        | 23   | DEO160           | 7    | M-C180-13A       | 11   | SFPRD27          | 38   |
| CH084D           | 23   | DEO200           | 7    | M-C180-3A        | 11   | SFPRD33          | 38   |
| CH084DI          | 23   | DEO200M250       | 7    | M-C180-5A        | 11   | SFRD27           | 38   |
| CH141D           | 24   | DEO200M315       | 7    | M-CD100          | 11   | SFRD33           | 38   |





# Cooper Bussmann® Products and Technical Support Delivered Worldwide

## Customer Assistance

### Customer Satisfaction Team

The Cooper Bussmann® Customer Satisfaction Team is available to answer questions regarding Cooper Bussmann® products and services.

Contact should be made between:  
Monday to Friday: 7:30am to 5:30pm GMT

#### The Customer Satisfaction Team can be reached via:

- Phone: 00 44 (0) 1509 882 600
- Fax: 00 44 (0) 1509 882 786
- Email: [sales@cooperbussmann.co.uk](mailto:sales@cooperbussmann.co.uk)

### Application Engineering

Application Engineering assistance is available to all customers. The Application Engineering team is staffed by degreed electrical engineers and available by phone with technical and application support Monday to Friday: 7:30am to 5:30pm GMT.

#### Application Engineering can be reached via:

- Phone: 00 44 (0) 1509 882 699
- Fax: 00 44 (0) 1509 882 794
- Email: [technical@cooperbussmann.co.uk](mailto:technical@cooperbussmann.co.uk)

## Web Services

### [www.cooperbussmann.com](http://www.cooperbussmann.com)

The Cooper Bussmann® website makes available free information and other resources that include:

- Product Data Sheets for complete technical information on Cooper Bussmann® products
- Online catalogue for the latest United States and European catalogues
- Safety BASCIS™ for the essentials of electrical safety
- Training modules for increasing skill levels of customers and end users
- Fuse Cross-reference to find the correct Cooper Bussmann® replacement for a competitive fuse
- Arc-Flash calculator to determine the incident energy level and flash protection boundary along with the recommendations the level of Personal Protective Equipment (PPE)

---

Your authorised Cooper Bussmann® Distributor is:



Cooper Bussmann (UK) Ltd • Burton-on-the-Wolds, Loughborough •  
Leicestershire LE12 5TH, UK  
Tel: 00 44 (0) 1509 882 600 • Fax: 00 44 (0) 1509 882 786  
Email: [sales@cooperbussmann.co.uk](mailto:sales@cooperbussmann.co.uk) • Website: [www.cooperbussmann.com](http://www.cooperbussmann.com)



Reorder: LV-2007



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.