



Economy G06



Safeclip SC32H



Safeloc 32NNSF



Safeloc 32NNSBS

## 32A FUSEHOLDERS FOR STAGGERED TAG FUSELINKS

| Part Number                                   | Description                             | Brand    | Origin | Rating | Voltage | Configuration           | Colour | Unit | Weight | Box Qty |
|-----------------------------------------------|-----------------------------------------|----------|--------|--------|---------|-------------------------|--------|------|--------|---------|
| <b>Economy G06 Fuseholders (AS/NZS 60269)</b> |                                         |          |        |        |         |                         |        |      |        |         |
| 540161                                        | 32A G06 EE/EE Fuseholder                | None     | China  | 32A    | 550V    | End Entry End Entry     | Black  | Each | 85g    | 5       |
| 540757                                        | 32A G06 BE/BE Fuseholder                | None     | China  | 32A    | 550V    | Back Entry Back Entry   | Black  | Each | 85g    | 5       |
| <b>Safeclip NSD Fuseholder (IEC 60269)</b>    |                                         |          |        |        |         |                         |        |      |        |         |
| 545031                                        | Bussmann GE SC32H Front Wired           | Bussmann | UK     | 32A    | 550V    | Front Wired Front Wired | Black  | Each | 95g    | 10      |
| <b>Safeloc NSD Fuseholders (IEC 60269)</b>    |                                         |          |        |        |         |                         |        |      |        |         |
| 545007                                        | Bussmann 32NNSF Front Wired             | Bussmann | India  | 32A    | 550V    | Front Wired Front Wired | Black  | Each | 85g    | 10      |
| 545015                                        | Bussmann 32NNSR Back Wired              | Bussmann | India  | 32A    | 550V    | Back Wired Back Wired   | Black  | Each | 85g    | 10      |
| 540803                                        | Bussmann 32NNSBS Back Stud              | Bussmann | India  | 32A    | 550V    | Back Stud Back Stud     | Black  | Each | 115g   | 10      |
| 545023                                        | Bussmann 32NNSFBS Front Wired Back Stud | Bussmann | India  | 32A    | 550V    | Front Wired Back Stud   | Black  | Each | 100g   | 10      |



G06



H07



NITD

## G06, H07 & NITD HRC FUSELINKS (CLASS gG)

| Part Number                    | Description   | Brand    | Origin | Amps | Volts | Break | Tags           | Unit | Box Qty |
|--------------------------------|---------------|----------|--------|------|-------|-------|----------------|------|---------|
| <b>G06 Staggered Fuselinks</b> |               |          |        |      |       |       |                |      |         |
| 644609                         | 2G06 (NSD2)   | Bussmann | India  | 2A   | 550V  | 80kA  | Staggered      | Each | 20      |
| 644617                         | 4G06 (NSD4)   | Bussmann | India  | 4A   | 550V  | 80kA  | Staggered      | Each | 20      |
| 644625                         | 6G06 (NSD6)   | Bussmann | India  | 6A   | 550V  | 80kA  | Staggered      | Each | 20      |
| 644633                         | 10G06 (NSD10) | Bussmann | India  | 10A  | 550V  | 80kA  | Staggered      | Each | 20      |
| 644641                         | 16G06 (NSD16) | Bussmann | India  | 16A  | 550V  | 80kA  | Staggered      | Each | 20      |
| 644668                         | 20G06 (NSD20) | Bussmann | India  | 20A  | 550V  | 80kA  | Staggered      | Each | 20      |
| 646881                         | 25G06 (NSD25) | Bussmann | India  | 25A  | 550V  | 80kA  | Staggered      | Each | 20      |
| 646903                         | 32G06 (NSD32) | Bussmann | India  | 32A  | 550V  | 80kA  | Staggered      | Each | 20      |
| <b>H07 Offset Fuselinks</b>    |               |          |        |      |       |       |                |      |         |
| 645303                         | 2H07 (AA02)   | Bussmann | India  | 2A   | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645311                         | 4H07 (AA04)   | Bussmann | India  | 4A   | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645338                         | 6H07 (AA06)   | Bussmann | India  | 6A   | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645346                         | 10H07 (AA010) | Bussmann | India  | 10A  | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645354                         | 16H07 (AA016) | Bussmann | India  | 16A  | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645362                         | 20H07 (AA020) | Bussmann | India  | 20A  | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645370                         | 25H07 (AA025) | Bussmann | India  | 25A  | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| 645389                         | 32H07 (AA032) | Bussmann | India  | 32A  | 550V  | 80kA  | Offset Bolted  | Each | 20      |
| <b>NITD Offset Fuselinks</b>   |               |          |        |      |       |       |                |      |         |
| 641332                         | NITD2         | Bussmann | India  | 2A   | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641340                         | NITD4         | Bussmann | India  | 4A   | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641359                         | NITD6         | Bussmann | India  | 6A   | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641367                         | NITD10        | Bussmann | India  | 10A  | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641375                         | NITD16        | Bussmann | India  | 16A  | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641383                         | NITD20        | Bussmann | India  | 20A  | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641391                         | NITD25        | Bussmann | India  | 25A  | 550V  | 80kA  | Offset Slotted | Each | 20      |
| 641405                         | NITD32        | Bussmann | India  | 32A  | 550V  | 80kA  | Offset Slotted | Each | 20      |



Red Spot Fuseholders now through NZI



Camaster CM63F



Red Spot RS63H

## 63A FUSEHOLDERS FOR OFFSET TAG FUSELINKS

| Part Number                                            | Description                                  | Brand    | Origin | Rating  | Voltage | Configuration           | Colour | Unit | Weight | Box Qty |
|--------------------------------------------------------|----------------------------------------------|----------|--------|---------|---------|-------------------------|--------|------|--------|---------|
| <b>Camaster 63A Cam Action Fuseholders (IEC 60269)</b> |                                              |          |        |         |         |                         |        |      |        |         |
| 692034                                                 | Bussmann Camaster CM63F Front Wired          | Bussmann | India  | 63A     | 690V    | Front Wired Front Wired | Black  | Each | 200g   | 5       |
| 692816                                                 | Bussmann Camaster CM63FW Front Wired White   | Bussmann | India  | 63A     | 690V    | Back Wired Back Wired   | White  | Each | 200g   | 5       |
| 692123                                                 | Bussmann 63/100BS Back Stud for Camaster 63A | Bussmann | India  | 63/100A | 690V    | Back Stud Accessory     | Black  | Each | 60g    | 5       |
| <b>Red Spot 63A Fuseholders (IEC 60269)</b>            |                                              |          |        |         |         |                         |        |      |        |         |
| 692824                                                 | Bussmann Red Spot RS63H Front Wired          | Bussmann | UK     | 63A     | 690V    | Front Wired Front Wired | Black  | Each | 310g   | 10      |
| 692859                                                 | Bussmann Red Spot RS63HWH Front Wired White  | Bussmann | UK     | 63A     | 690V    | Front Wired Front Wired | White  | Each | 310g   | 10      |
| 692832                                                 | Bussmann Red Spot RS63P Back Stud            | Bussmann | UK     | 63A     | 690V    | Back Stud Back Stud     | Black  | Each | 450g   | 10      |
| 692867                                                 | Bussmann Red Spot RS63PWH Back Stud White    | Bussmann | UK     | 63A     | 690V    | Back Stud Back Stud     | White  | Each | 450g   | 10      |
| 692840                                                 | Bussmann Red Spot RS63PH Front Wired BS      | Bussmann | UK     | 63A     | 690V    | Front Wired Back Stud   | Black  | Each | 380g   | 10      |



K07



L09



L14

## K07, L14 &amp; M14 HRC FUSELINKS (CLASS gG)

| Part Number                 | Description      | Brand    | Origin | Amps | Volts | Break | Tags   | Unit | Box Qty |
|-----------------------------|------------------|----------|--------|------|-------|-------|--------|------|---------|
| <b>K07 Offset Fuselinks</b> |                  |          |        |      |       |       |        |      |         |
| 645664                      | 40K07 (BA040)    | Bussmann | India  | 40A  | 550V  | 80kA  | Offset | Each | 20      |
| 645680                      | 50K07 (BA050)    | Bussmann | India  | 50A  | 550V  | 80kA  | Offset | Each | 20      |
| 645702                      | 63K07 (BA063)    | Bussmann | India  | 63A  | 550V  | 80kA  | Offset | Each | 20      |
| 692336                      | 80K07R (OSD80)   | Bussmann | India  | 80A  | 550V  | 80kA  | Offset | Each | 20      |
| 692344                      | 100K07R (OSD100) | Bussmann | India  | 100A | 550V  | 80kA  | Offset | Each | 20      |
| <b>L09 Offset Fuselinks</b> |                  |          |        |      |       |       |        |      |         |
| 646458                      | 80L09 (CD80)     | Bussmann | India  | 80A  | 550V  | 80kA  | Offset | Each | 10      |
| 646466                      | 100L09 (CD100)   | Bussmann | India  | 100A | 550V  | 80kA  | Offset | Each | 10      |
| <b>L14 Offset Fuselinks</b> |                  |          |        |      |       |       |        |      |         |
| 646512                      | 32L14 (CE032)    | Bussmann | India  | 32A  | 550V  | 80kA  | Offset | Each | 10      |
| 646520                      | 40L14 (CE040)    | Bussmann | India  | 40A  | 550V  | 80kA  | Offset | Each | 10      |
| 646539                      | 50L14 (CE050)    | Bussmann | India  | 50A  | 550V  | 80kA  | Offset | Each | 10      |
| 646547                      | 63L14 (CE063)    | Bussmann | India  | 63A  | 550V  | 80kA  | Offset | Each | 10      |
| 646555                      | 80L14 (CE080)    | Bussmann | India  | 80A  | 550V  | 80kA  | Offset | Each | 10      |
| 646563                      | 100L14 (CE0100)  | Bussmann | India  | 100A | 550V  | 80kA  | Offset | Each | 10      |



M14



M09



N09



P09

**M14, M09, N09 & P09 HRC FUSELINKS (CLASS gG)**

| Part Number                  | Description     | Brand    | Origin | Amps | Volts | Break | Tags    | Unit | Box Qty |
|------------------------------|-----------------|----------|--------|------|-------|-------|---------|------|---------|
| <b>M14 Offset Fuselinks</b>  |                 |          |        |      |       |       |         |      |         |
| 646636                       | 125M14 (DE0125) | Bussmann | India  | 125A | 415V  | 80kA  | Offset  | Each | 5       |
| 646652                       | 160M14 (DE0160) | Bussmann | India  | 160A | 415V  | 80kA  | Offset  | Each | 5       |
| 646660                       | 200M14 (DE0200) | Bussmann | India  | 200A | 415V  | 80kA  | Offset  | Each | 5       |
| <b>M09 Central Fuselinks</b> |                 |          |        |      |       |       |         |      |         |
| 646571                       | 125M09 (DD125)  | Bussmann | India  | 125A | 415V  | 80kA  | Central | Each | 5       |
| 646601                       | 160M09 (DD160)  | Bussmann | India  | 160A | 415V  | 80kA  | Central | Each | 5       |
| 646628                       | 200M09 (DD200)  | Bussmann | India  | 200A | 415V  | 80kA  | Central | Each | 5       |
| <b>N09 Central Fuselinks</b> |                 |          |        |      |       |       |         |      |         |
| 646709                       | 250N09 (ED250)  | Bussmann | India  | 250A | 415V  | 80kA  | Central | Each | 1       |
| 646717                       | 315N09 (ED315)  | Bussmann | India  | 315A | 415V  | 80kA  | Central | Each | 1       |
| <b>P09 Central Fuselinks</b> |                 |          |        |      |       |       |         |      |         |
| 646679                       | 355P09 (ED355)  | Bussmann | India  | 355A | 415V  | 80kA  | Central | Each | 1       |
| 646687                       | 400P09 (ED400)  | Bussmann | India  | 400A | 415V  | 80kA  | Central | Each | 1       |



N11



P11



R11

**N11, P11 & R11 HRC FUSELINKS (CLASS gG)**

| Part Number                  | Description     | Brand    | Origin | Amps | Volts | Break | Tags           | Unit | Box Qty |
|------------------------------|-----------------|----------|--------|------|-------|-------|----------------|------|---------|
| <b>N11 Central Fuselinks</b> |                 |          |        |      |       |       |                |      |         |
| 646768                       | 250N11 (EFS250) | Bussmann | India  | 250A | 415V  | 80kA  | Central        | Each | 1       |
| 646776                       | 315N11 (EFS315) | Bussmann | India  | 315A | 415V  | 80kA  | 4-Hole Central | Each | 1       |
| <b>P11 Central Fuselinks</b> |                 |          |        |      |       |       |                |      |         |
| 647942                       | 355P11 (EF355)  | Bussmann | India  | 355A | 415V  | 80kA  | 4-Hole Central | Each | 1       |
| 646644                       | 400P11 (EF400)  | Bussmann | India  | 400A | 415V  | 80kA  | 4-Hole Central | Each | 1       |
| <b>R11 Central Fuselinks</b> |                 |          |        |      |       |       |                |      |         |
| 646946                       | 450R11 (FF450)  | Bussmann | India  | 450A | 690V  | 80kA  | 4-Hole Central | Each | 1       |
| 646954                       | 500R11 (FF500)  | Bussmann | India  | 500A | 690V  | 80kA  | 4-Hole Central | Each | 1       |
| 646962                       | 560R11 (FF560)  | Bussmann | India  | 560A | 690V  | 80kA  | 4-Hole Central | Each | 1       |
| 646970                       | 630R11 (FF630)  | Bussmann | India  | 630A | 690V  | 80kA  | 4-Hole Central | Each | 1       |



NZI 100A



Red Spot RS100H



NZI 100A



Red Spot RS200H

## 100+A FUSEHOLDERS FOR OFFSET & CENTRAL TAG FUSELINKS

| Part Number                                             | Description                                   | Brand    | Origin | Rating  | Voltage | Configuration              | Colour | Unit | Weight | Box Qty |
|---------------------------------------------------------|-----------------------------------------------|----------|--------|---------|---------|----------------------------|--------|------|--------|---------|
| <b>NZI 100A L14 Fuseholder (BS88 Part2 1975)</b>        |                                               |          |        |         |         |                            |        |      |        |         |
| 678678                                                  | NZI L14 100A EE/EE Fuseholder                 | NZI      | NZ     | 100A    | 500V    | End Entry<br>End Entry     | Black  | Each | 870g   | 5       |
| <b>Camaster 100A Cam Action Fuseholders (IEC 60269)</b> |                                               |          |        |         |         |                            |        |      |        |         |
| 692042                                                  | Bussmann Camaster CM100F Front Wired          | Bussmann | India  | 100A    | 690V    | Front Wired<br>Front Wired | Black  | Each | 210g   | 5       |
| 692123                                                  | Bussmann 63/100BS Back Stud for Camaster 63A  | Bussmann | India  | 63/100A | 690V    | Back Stud<br>Accessory     | Black  | Each | 60g    | 5       |
| <b>Red Spot 100A Fuseholders (IEC 60269)</b>            |                                               |          |        |         |         |                            |        |      |        |         |
| 692905                                                  | Bussmann Red Spot RS100H Front Wired 100A     | Bussmann | UK     | 100A    | 690V    | Front Wired<br>Front Wired | Black  | Each | 850g   | 5       |
| 692875                                                  | Bussmann Red Spot RS100BW Back Wired 100A     | Bussmann | UK     | 100A    | 690V    | Back Wired<br>Back Wired   | Black  | Each | 795g   | 5       |
| 692913                                                  | Bussmann Red Spot RS100P Back Stud 100A       | Bussmann | UK     | 100A    | 690V    | Back Stud<br>Back Stud     | Black  | Each | 970g   | 5       |
| 692921                                                  | Bussmann Red Spot RS100PH Front Wired BS 100A | Bussmann | UK     | 100A    | 690V    | Front Wired<br>Back Stud   | Black  | Each | 915g   | 5       |
| <b>Red Spot 200A Fuseholders (IEC 60269)</b>            |                                               |          |        |         |         |                            |        |      |        |         |
| 692948                                                  | Bussmann Red Spot RS200H Front Wired 200A     | Bussmann | UK     | 200A    | 690V    | Front Wired<br>Front Wired | Black  | Each | 2.1kg  | 1       |
| <b>Red Spot 400A Fuseholders (IEC 60269)</b>            |                                               |          |        |         |         |                            |        |      |        |         |
| 692956                                                  | Bussmann Red Spot RS400H Front Wired 400A     | Bussmann | UK     | 400A    | 690V    | Front Wired<br>Front Wired | Black  | Each |        | 1       |



G06 Motor Circuit



H07 Motor Circuit



K07 Motor Circuit



P11 Motor Circuit

## MOTOR RATED HRC FUSELINKS (CLASS gG)

| Part Number                      | Description                 | Brand    | Origin | Amps    | Volts | Break | Tags      | Unit | Box Qty |
|----------------------------------|-----------------------------|----------|--------|---------|-------|-------|-----------|------|---------|
| <b>G06 Motor Circuit Fuses</b>   |                             |          |        |         |       |       |           |      |         |
| 649201                           | 20M25 G06 MC (NSD20M25)     | Bussmann | India  | 20M25   | 550V  | 80kA  | Staggered | Each | 20      |
| 649228                           | 20M32 G06 MC (NSD20M32)     | Bussmann | India  | 20M32   | 550V  | 80kA  | Staggered | Each | 20      |
| 649236                           | 32M40 G06 MC (NSD32M40)     | Bussmann | India  | 32M40   | 550V  | 80kA  | Staggered | Each | 20      |
| <b>H07 Motor Circuit Fuses</b>   |                             |          |        |         |       |       |           |      |         |
| 649368                           | 32M40 H07 MC (AAO32M40)     | Bussmann | India  | 32M40   | 550V  | 80kA  | Offset    | Each | 20      |
| 649384                           | 32M50 H07 MC (AAO32M50)     | Bussmann | India  | 32M50   | 550V  | 80kA  | Offset    | Each | 20      |
| 649392                           | 32M63 H07 MC (AAO32M63)     | Bussmann | India  | 32M63   | 550V  | 80kA  | Offset    | Each | 20      |
| <b>K07 Motor Circuit Fuses</b>   |                             |          |        |         |       |       |           |      |         |
| 649457                           | 63M80 K07 MC (BAO63M80)     | Bussmann | India  | 63M80   | 550V  | 80kA  | Offset    | Each | 20      |
| 649465                           | 63M100 K07 MC (BAO63M100)   | Bussmann | India  | 63M100  | 550V  | 80kA  | Offset    | Each | 20      |
| <b>Other Motor Circuit Fuses</b> |                             |          |        |         |       |       |           |      |         |
| 649651                           | 100M125 L09 MC (CD100M125)  | Bussmann | India  | 100M125 | 415V  | 80kA  | Central   | Each | 10      |
| 649597                           | 100M125 L14 MC (CEO100M125) | Bussmann | India  | 100M125 | 415V  | 80kA  | Offset    | Each | 10      |
| 649678                           | 100M160 L09 MC (CD100M160)  | Bussmann | India  | 100M160 | 415V  | 80kA  | Central   | Each | 10      |
| 649619                           | 100M160 L14 MC (CEO100M160) | Bussmann | India  | 100M160 | 415V  | 80kA  | Offset    | Each | 10      |
| 649627                           | 100M200 L14 MC (CEO100M200) | Bussmann | India  | 100M200 | 415V  | 80kA  | Offset    | Each | 10      |
| 649694                           | 200M250 M09 MC (DD200M250)  | Bussmann | India  | 200M250 | 415V  | 80kA  | Central   | Each | 5       |
| 649643                           | 200M250 M14 MC (DEO200M250) | Bussmann | India  | 200M250 | 415V  | 80kA  | Offset    | Each | 5       |
| 649724                           | 315M400 N09 MC (ED315M400)  | Bussmann | India  | 315M400 | 415V  | 80kA  | Central   | Each | 1       |
| 646695                           | 400M500 P09 MC (ED400M500)  | Bussmann | India  | 400M500 | 415V  | 80kA  | Central   | Each | 1       |
| 647950                           | 400M500 P11 MC (EF400M500)  | Bussmann | India  | 400M500 | 550V  | 80kA  | Central   | Each | 1       |



HSB22FW



Use BS fuselinks 22mm or 30mm diameter x 57mm long



Back Entry or End Entry

### HSB22 HOUSE SERVICE FUSEHOLDERS

| Part Number | Description                                          | Brand    | Origin | Amps | Volts | Material                    | Weight | Unit | Box Qty |
|-------------|------------------------------------------------------|----------|--------|------|-------|-----------------------------|--------|------|---------|
| 693251      | HSB22BW Bussmann Back Entry House Service Fuseholder | Bussmann | China  | 100A | 500V  | Thermoplastic/<br>Polyamide | 300g   | Each | 10      |
| 693243      | HSB22FW Bussmann End Entry House Service Fuseholder  | Bussmann | China  | 100A | 500V  | Thermoplastic/<br>Polyamide | 300g   | Each | 10      |

# BUSSMANN KR85 House Service Fuses



60KR85

## KR85 HOUSE SERVICE HRC FUSELINKS (CLASS gG TO BS1361)

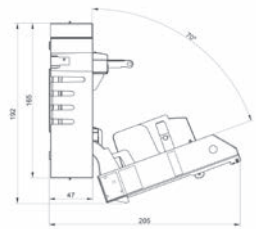
| Part Number              | Description    | Brand    | Origin | Amps | Volts | Break | Configuration   | Unit | Box Qty |
|--------------------------|----------------|----------|--------|------|-------|-------|-----------------|------|---------|
| KR85 House Service Fuses |                |          |        |      |       |       |                 |      |         |
| 647802                   | 5A (5KR85)     | Bussmann | India  | 5A   | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647810                   | 10A (10KR85)   | Bussmann | India  | 10A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647829                   | 15A (15KR85)   | Bussmann | India  | 15A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647837                   | 20A (20KR85)   | Bussmann | India  | 20A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647845                   | 25A (25KR85)   | Bussmann | India  | 25A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647853                   | 30A (30KR85)   | Bussmann | India  | 30A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647861                   | 40A (40KR85)   | Bussmann | India  | 40A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647888                   | 45A (45KR85)   | Bussmann | India  | 45A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647896                   | 50A (50KR85)   | Bussmann | India  | 50A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647918                   | 60A (60KR85)   | Bussmann | India  | 60A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647926                   | 80A (80KR85)   | Bussmann | India  | 80A  | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |
| 647934                   | 100A (100KR85) | Bussmann | India  | 100A | 415V  | 33kA  | 22x57mm Ferrule | Each | 20      |



NH00 3P3P



NH1 3P3P Open



NH00 3P3P Dimensions

## BUSSMANN DIN FUSE DISCONNECTS

| Part Number                            | Description         | Brand    | Origin | CB Code    | Amps | Poles | Phase  | Standard    | Unit | Box Qty |
|----------------------------------------|---------------------|----------|--------|------------|------|-------|--------|-------------|------|---------|
| <b>Base Only</b>                       |                     |          |        |            |      |       |        |             |      |         |
| 697001                                 | NH00 160A Base Only | Bussmann | Czech  | SD00-D     | 160A | 1     | Single | IEC 60269   | Each | 3       |
| 697028                                 | NH1 250A Base Only  | Bussmann | Czech  | SD1-D      | 250A | 1     | Single | IEC 60269   | Each | 3       |
| 697036                                 | NH2 400A Base Only  | Bussmann | Czech  | SD2-D      | 400A | 1     | Single | IEC 60269   | Each | 3       |
| <b>1 Pole (Single Phase)</b>           |                     |          |        |            |      |       |        |             |      |         |
| 697044                                 | NH00 160A Switch    | Bussmann | Czech  | BFH00-1A/F | 160A | 1     | Single | IEC 60947-1 | Each | 1       |
| 697052                                 | NH1 250A Switch     | Bussmann | Czech  | BFH1-1A/F  | 250A | 1     | Single | IEC 60947-1 | Each | 1       |
| 697060                                 | NH2 400A Switch     | Bussmann | Czech  | BFH2-1A/F  | 400A | 1     | Single | IEC 60947-1 | Each | 1       |
| <b>Horizontal 3 Pole (Three Phase)</b> |                     |          |        |            |      |       |        |             |      |         |
| 697079                                 | NH00 160A Switch    | Bussmann | Czech  | BFH00-3A/F | 160A | 3     | Three  | IEC 60947-1 | Each | 1       |
| 697087                                 | NH1 250A Switch     | Bussmann | Czech  | BFH1-3A/F  | 250A | 3     | Three  | IEC 60947-1 | Each | 1       |
| 697095                                 | NH2 400A Switch     | Bussmann | Czech  | BFH2-3A/F  | 400A | 3     | Three  | IEC 60947-1 | Each | 1       |
| 697109                                 | NH3 630A Switch     | Bussmann | Czech  | BFH3-3A/F  | 630A | 3     | Three  | IEC 60947-1 | Each | 1       |



Solid Link Blade



NH000

## DIN SOLID LINK &amp; NH000 HRC FUSES (CLASS gG)

| Part Number                | Description               | Brand    | Origin | Amps | Volts | Break | Configuration | Unit | Box Qty |
|----------------------------|---------------------------|----------|--------|------|-------|-------|---------------|------|---------|
| <b>Solid Link Blades</b>   |                           |          |        |      |       |       |               |      |         |
| 688983                     | 160A Solid Link 00 (SL00) | Bussmann | India  | 160A | 500V  | 120kA | Solid Link    | Each | 3       |
| 657115                     | 250A Solid Link 1 (SL1)   | Bussmann | India  | 250A | 500V  | 120kA | Solid Link    | Each | 3       |
| 689300                     | 400A Solid Link 2 (SL2)   | Bussmann | India  | 400A | 500V  | 120kA | Solid Link    | Each | 3       |
| 657131                     | 630A Solid Link 3 (SL3)   | Bussmann | India  | 630A | 500V  | 120kA | Solid Link    | Each | 3       |
| <b>NH000 DIN Fuselinks</b> |                           |          |        |      |       |       |               |      |         |
| 688584                     | 10A NH000 (10NHG000B)     | Bussmann | India  | 10A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 690317                     | 16A NH000 (16NHG000B)     | Bussmann | India  | 16A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689130                     | 20A NH000 (20NHG000B)     | Bussmann | India  | 20A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689149                     | 32A NH000 (32NHG000B)     | Bussmann | India  | 32A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689238                     | 40A NH000 (40NHG000B)     | Bussmann | India  | 40A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689165                     | 50A NH000 (50NHG000B)     | Bussmann | India  | 50A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689173                     | 63A NH000 (63NHG000B)     | Bussmann | India  | 63A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689181                     | 80A NH000 (80NHG000B)     | Bussmann | India  | 80A  | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689203                     | 100A NH000 (100NHG000B)   | Bussmann | India  | 100A | 500V  | 120kA | DIN Blade     | Each | 3       |



NH00



NHO

**DIN NH00 & NHO HRC FUSES (CLASS gG)**

| Part Number               | Description           | Brand    | Origin | Amps | Volts | Break | Configuration | Unit | Box Qty |
|---------------------------|-----------------------|----------|--------|------|-------|-------|---------------|------|---------|
| <b>NH00 DIN Fuselinks</b> |                       |          |        |      |       |       |               |      |         |
| 689211                    | 125A NH00 (125NHG00B) | Bussmann | India  | 125A | 500V  | 120kA | DIN Blade     | Each | 3       |
| 689491                    | 160A NH00 (160NHG00B) | Bussmann | India  | 160A | 500V  | 120kA | DIN Blade     | Each | 3       |
| <b>NHO DIN Fuselinks</b>  |                       |          |        |      |       |       |               |      |         |
| 665290                    | 10A NHO (16NHG00B)    | Bussmann | India  | 10A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689378                    | 16A NHO (16NHG00B)    | Bussmann | India  | 16A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689831                    | 20A NHO (20NHG00B)    | Bussmann | India  | 20A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 688576                    | 25A NHO (25NHG00B)    | Bussmann | India  | 25A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 693162                    | 32A NHO (32NHG00B)    | Bussmann | India  | 32A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689963                    | 40A NHO (40NHG00B)    | Bussmann | India  | 40A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689858                    | 50A NHO (50NHG00B)    | Bussmann | India  | 50A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689319                    | 63A NHO (63NHG00B)    | Bussmann | India  | 63A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689327                    | 80A NHO (80NHG00B)    | Bussmann | India  | 80A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689335                    | 100A NHO (100NHG00B)  | Bussmann | India  | 100A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689343                    | 125A NHO (125NHG00B)  | Bussmann | India  | 125A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689351                    | 160A NHO (160NHG00B)  | Bussmann | India  | 160A | 500V  | 120kA | Blade Type    | Each | 3       |



NH1



Top



Side

## DIN NH1 HRC FUSES (CLASS gG)

| Part Number       | Description          | Brand    | Origin | Amps | Volts | Break | Configuration | Unit | Box Qty |
|-------------------|----------------------|----------|--------|------|-------|-------|---------------|------|---------|
| NH1 DIN Fuselinks |                      |          |        |      |       |       |               |      |         |
| 689866            | 16A NH1 (16NHG01B)   | Bussmann | India  | 16A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689688            | 20A NH1 (20NHG01B)   | Bussmann | India  | 20A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689432            | 25A NH1 (25NHG01B)   | Bussmann | India  | 25A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 692530            | 32A NH1 (32NHG01B)   | Bussmann | India  | 32A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 686700            | 40A NH1 (40NHG01B)   | Bussmann | India  | 40A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689416            | 50A NH1 (50NHG01B)   | Bussmann | India  | 50A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689424            | 63A NH1 (63NHG01B)   | Bussmann | India  | 63A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689084            | 80A NH1 (80NHG01B)   | Bussmann | India  | 80A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689440            | 100A NH1 (100NHG01B) | Bussmann | India  | 100A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689459            | 125A NH1 (125NHG01B) | Bussmann | India  | 125A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689467            | 160A NH1 (160NHG01B) | Bussmann | India  | 160A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689475            | 200A NH1 (200NHG1B)  | Bussmann | India  | 200A | 500V  | 120kA | Blade Type    | Each | 3       |
| 661066            | 224A NH1 (224NHG1B)  | Bussmann | India  | 224A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689939            | 250A NH1 (250NHG1B)  | Bussmann | India  | 250A | 500V  | 120kA | Blade Type    | Each | 3       |



NH2



NH3

## DIN NH2 & NH3 HRC FUSES (CLASS gG)

| Part Number              | Description          | Brand    | Origin | Amps | Volts | Break | Configuration | Unit | Box Qty |
|--------------------------|----------------------|----------|--------|------|-------|-------|---------------|------|---------|
| <b>NH2 DIN Fuselinks</b> |                      |          |        |      |       |       |               |      |         |
| 686735                   | 50A NH2 (50NHG02B)   | Bussmann | India  | 50A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689548                   | 63A NH2 (63NHG02B)   | Bussmann | India  | 63A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689998                   | 80A NH2 (80NHG02B)   | Bussmann | India  | 80A  | 500V  | 120kA | Blade Type    | Each | 3       |
| 689882                   | 100A NH2 (100NHG02B) | Bussmann | India  | 100A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689564                   | 125A NH2 (125NHG02B) | Bussmann | India  | 125A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689572                   | 160A NH2 (160NHG02B) | Bussmann | India  | 160A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689580                   | 200A NH2 (200NHG02B) | Bussmann | India  | 200A | 500V  | 120kA | Blade Type    | Each | 3       |
| 685860                   | 224A NH2 (224NHG02B) | Bussmann | India  | 224A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689890                   | 250A NH2 (250NHG02B) | Bussmann | India  | 250A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689610                   | 315A NH2 (315NHG2B)  | Bussmann | India  | 315A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689629                   | 355A NH2 (355NHG2B)  | Bussmann | India  | 355A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689637                   | 400A NH2 (400NHG2B)  | Bussmann | India  | 400A | 500V  | 120kA | Blade Type    | Each | 3       |
| <b>NH3 DIN Fuselinks</b> |                      |          |        |      |       |       |               |      |         |
| 689645                   | 315A NH3 (315NHG03B) | Bussmann | India  | 315A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689556                   | 355A NH3 (355NHG03B) | Bussmann | India  | 355A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689599                   | 400A NH3 (400NHG03B) | Bussmann | India  | 400A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689696                   | 500A NH3 (500NHG3B)  | Bussmann | India  | 500A | 500V  | 120kA | Blade Type    | Each | 3       |
| 689718                   | 630A NH3 (630NHG3B)  | Bussmann | India  | 630A | 500V  | 120kA | Blade Type    | Each | 3       |



300-1



160MJ29

## 76mm J-TYPE FUSELINKS &amp; CARRIERS

| Part Number                   | Description                | Brand    | Origin | Amps | Volts  | Fixing Centre      | Standard    | Unit | Box Qty |         |
|-------------------------------|----------------------------|----------|--------|------|--------|--------------------|-------------|------|---------|---------|
| 76mm J-Type Fuselinks         |                            |          |        |      |        |                    |             |      |         |         |
| 647233                        | 63A 76mm (63MJ29-6)        | Bussmann | India  | 63A  | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| 647268                        | 100A 76mm (100MJ29-6)      | Bussmann | India  | 100A | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| 647276                        | 125A 76mm (125MJ29-6)      | Bussmann | India  | 125A | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| 647284                        | 160A 76mm (160MJ29-6)      | Bussmann | India  | 160A | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| 647292                        | 200A 76mm (200MJ29-6)      | Bussmann | India  | 200A | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| 647306                        | 250A 76mm (250MJ29-6)      | Bussmann | India  | 250A | 415V   | 76mm               | IEC 60269-1 | Each | 5       |         |
| Part Number                   | Description                | Brand    | Origin | Amps | Colour | Construction       | Standard    | Unit | Weight  | Box Qty |
| Carrier for J-Type 76mm Fuses |                            |          |        |      |        |                    |             |      |         |         |
| 468622                        | NZI 300-1 Shrouded Carrier | NZI      | NZ     | 200A | White  | Porcelain & ETPNFM | AS/NZS 3947 | Each | 600g    | 1       |



325-7



325 Shorting Link



325-5



200MJ30-7

## 82mm J-TYPE FUSELINKS & CARRIERS

| Part Number                  | Description           | Brand    | Origin | Amps | Volts | Fixing Centre | Standard    | Unit | Box Qty |
|------------------------------|-----------------------|----------|--------|------|-------|---------------|-------------|------|---------|
| <b>82mm J-Type Fuselinks</b> |                       |          |        |      |       |               |             |      |         |
| 647373                       | 32A 82mm (32MJ30-8)   | Bussmann | India  | 32A  | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647381                       | 40A 82mm (40MJ30-8)   | Bussmann | India  | 40A  | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647403                       | 63A 82mm (63MJ30-8)   | Bussmann | India  | 63A  | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647411                       | 80A 82mm (80MJ30-7)   | Bussmann | India  | 80A  | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647438                       | 100A 82mm (100MJ30-7) | Bussmann | India  | 100A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647446                       | 125A 82mm (125MJ30-7) | Bussmann | India  | 125A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647454                       | 160A 82mm (160MJ30-7) | Bussmann | India  | 160A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647462                       | 200A 82mm (200MJ30-7) | Bussmann | India  | 200A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647470                       | 250A 82mm (250MJ30-7) | Bussmann | India  | 250A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647489                       | 315A 82mm (315MJ30-7) | Bussmann | India  | 315A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647659                       | 355A 82mm (355PJ30-7) | Bussmann | India  | 355A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |
| 647667                       | 400A 82mm (400PJ30-7) | Bussmann | India  | 400A | 415V  | 82mm          | IEC 60269-1 | Each | 5       |

| Part Number                          | Description                   | Brand | Origin | Amps | Colour | Construction       | Standard    | Unit | Weight | Box Qty |
|--------------------------------------|-------------------------------|-------|--------|------|--------|--------------------|-------------|------|--------|---------|
| <b>Carrier for J-Type 82mm Fuses</b> |                               |       |        |      |        |                    |             |      |        |         |
| 468592                               | NZI 325-5 Unshrouded Carrier  | NZI   | NZ     | 400A | Grey   | Porcelain & ETPNFM | AS/NZS 3947 | Each | 900g   | 1       |
| 468614                               | NZI 325-7 Shrouded Carrier    | NZI   | NZ     | 400A | White  | Porcelain & ETPNFM | AS/NZS 3947 | Each | 1.1kg  | 1       |
| 469726                               | NZI 325 Slotted Shorting Link | NZI   | NZ     | 400A |        | Copper ETP         | AS/NZS 3947 | Each | 110g   | 1       |

# **BUSSMANN 92 J-TYPE Fuses & Carrier**



315MJ31-7



3625-7



3625-7 Top View

## **92mm J-TYPE FUSELINKS & CARRIERS**

| Part Number                   | Description                 | Brand    | Origin | Amps | Volts  | Fixing Centre      | Standard    | Unit | Box Qty |         |
|-------------------------------|-----------------------------|----------|--------|------|--------|--------------------|-------------|------|---------|---------|
| 92mm J-Type Fuselinks         |                             |          |        |      |        |                    |             |      |         |         |
| 658650                        | 32A 92mm (32MJ31-8)         | Bussmann | India  | 32A  | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647535                        | 40A 92mm (40MJ31-8)         | Bussmann | India  | 40A  | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647543                        | 63A 92mm (63MJ31-8)         | Bussmann | India  | 63A  | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647551                        | 80A 92mm (80MJ31-7)         | Bussmann | India  | 80A  | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647578                        | 100A 92mm (100MJ31-7)       | Bussmann | India  | 100A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647586                        | 125A 92mm (125MJ31-7)       | Bussmann | India  | 125A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647594                        | 160A 92mm (160MJ31-7)       | Bussmann | India  | 160A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647608                        | 200A 92mm (200MJ31-7)       | Bussmann | India  | 200A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647616                        | 250A 92mm (250MJ31-7)       | Bussmann | India  | 250A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647624                        | 315A 92mm (315MJ31-7)       | Bussmann | India  | 315A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647675                        | 355A 92mm (355PJ31-7)       | Bussmann | India  | 355A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647683                        | 400A 92mm (400PJ31-7)       | Bussmann | India  | 400A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 658782                        | 450A 92mm (450RJ31-7)       | Bussmann | India  | 450A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647756                        | 500A 92mm (500RJ31-7)       | Bussmann | India  | 500A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 658804                        | 560A 92mm (560SJ31-6)       | Bussmann | India  | 560A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| 647772                        | 630A 92mm (630SJ31-6)       | Bussmann | India  | 630A | 415V   | 92mm               | IEC 60269-1 | Each | 5       |         |
| Part Number                   | Description                 | Brand    | Origin | Amps | Colour | Construction       | Standard    | Unit | Weight  | Box Qty |
| Carrier for J-Type 92mm Fuses |                             |          |        |      |        |                    |             |      |         |         |
| 471011                        | NZI 3625-7 Shrouded Carrier | NZI      | NZ     | 600A | White  | Porcelain & ETPNFM | AS/NZS 3947 | Each | 1.5kg   | 1       |



C10G16 and C10G32 10x38

**CYLINDRICAL 10x38 FUSELINKS (CLASS gG)**

| Part Number                                         | Description             | Brand    | Origin | Amps | Volts | Break | Configuration    | Unit | Box Qty |
|-----------------------------------------------------|-------------------------|----------|--------|------|-------|-------|------------------|------|---------|
| <b>10x38 HRC Fuselinks</b>                          |                         |          |        |      |       |       |                  |      |         |
| 654574                                              | 1A 10x38 Fuse (C10G1)   | Bussmann | India  | 1A   | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654299                                              | 2A 10x38 Fuse (C10G2)   | Bussmann | India  | 2A   | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654388                                              | 4A 10x38 Fuse (C10G4)   | Bussmann | India  | 4A   | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654302                                              | 6A 10x38 Fuse (C10G6)   | Bussmann | India  | 6A   | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654310                                              | 10A 10x38 Fuse (C10G10) | Bussmann | India  | 10A  | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654329                                              | 16A 10x38 Fuse (C10G16) | Bussmann | India  | 16A  | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654337                                              | 20A 10x38 Fuse (C10G20) | Bussmann | India  | 20A  | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654353                                              | 25A 10x38 Fuse (C10G25) | Bussmann | India  | 25A  | 500V  | 120kA | 10x38mm Cylinder | Each | 10      |
| 654345                                              | 32A 10x38 Fuse (C10G32) | Bussmann | India  | 32A  | 400V  | 120kA | 10x38mm Cylinder | Each | 10      |
| <b>Fuseholder for 10x38 Fuses (IEC 60269/60947)</b> |                         |          |        |      |       |       |                  |      |         |
| 666858                                              | CHM1D Fuseholder        | Bussmann | China  | 32A  | 690V  | 120kA | 10x38mm Cylinder | Each | 12      |

## BUSSMANN LCT/LET/LMT High Speed Fuses



### BS88 'T' TYPE HIGH-SPEED 240V SEMI-CONDUCTOR HRC FUSELINKS

| Part Number                      | Description | Brand    | Origin | Amps | Volts AC | Volts DC | Fixing Centre | A2T    | Unit | Box Qty |
|----------------------------------|-------------|----------|--------|------|----------|----------|---------------|--------|------|---------|
| <b>240V LCT High Speed Fuses</b> |             |          |        |      |          |          |               |        |      |         |
| 684848                           | 6LCT        | Bussmann | India  | 6A   | 240V     | 150V     | 38mm          | 9      | Each | 20      |
| 684856                           | 10LCT       | Bussmann | India  | 10A  | 240V     | 150V     | 38mm          | 22     | Each | 20      |
| 684880                           | 12LCT       | Bussmann | India  | 12A  | 240V     | 150V     | 38mm          | 32     | Each | 20      |
| 684864                           | 16LCT       | Bussmann | India  | 16A  | 240V     | 150V     | 38mm          | 100    | Each | 20      |
| 684872                           | 20LCT       | Bussmann | India  | 20A  | 240V     | 150V     | 38mm          | 160    | Each | 20      |
| <b>240V LET High Speed Fuses</b> |             |          |        |      |          |          |               |        |      |         |
| 685003                           | 25LET       | Bussmann | India  | 25A  | 240V     | 150V     | 42mm          | 250    | Each | 10      |
| 685011                           | 32LET       | Bussmann | India  | 32A  | 240V     | 150V     | 42mm          | 450    | Each | 10      |
| 685038                           | 35LET       | Bussmann | India  | 35A  | 240V     | 150V     | 42mm          | 600    | Each | 10      |
| 684937                           | 50LET       | Bussmann | India  | 50A  | 240V     | 150V     | 42mm          | 1400   | Each | 10      |
| 685046                           | 63LET       | Bussmann | India  | 63A  | 240V     | 150V     | 42mm          | 2200   | Each | 10      |
| 685054                           | 80LET       | Bussmann | India  | 80A  | 240V     | 150V     | 42mm          | 3800   | Each | 10      |
| 685062                           | 100LET      | Bussmann | India  | 100A | 240V     | 150V     | 42mm          | 7500   | Each | 10      |
| 685070                           | 125LET      | Bussmann | India  | 125A | 240V     | 150V     | 42mm          | 7500   | Each | 10      |
| 685089                           | 160LET      | Bussmann | India  | 160A | 240V     | 150V     | 42mm          | 16000  | Each | 10      |
| 685097                           | 180LET      | Bussmann | India  | 180A | 240V     | 150V     | 42mm          | 29000  | Each | 10      |
| <b>240V LMT High Speed Fuses</b> |             |          |        |      |          |          |               |        |      |         |
| 685275                           | 160LMT      | Bussmann | India  | 160A | 240V     | 150V     | 59mm          | 16000  | Each | 1       |
| 685283                           | 200LMT      | Bussmann | India  | 200A | 240V     | 150V     | 59mm          | 20000  | Each | 1       |
| 685291                           | 250LMT      | Bussmann | India  | 250A | 240V     | 150V     | 59mm          | 40000  | Each | 1       |
| 685305                           | 315LMT      | Bussmann | India  | 315A | 240V     | 150V     | 59mm          | 75000  | Each | 1       |
| 685313                           | 355LMT      | Bussmann | India  | 355A | 240V     | 150V     | 59mm          | 100000 | Each | 1       |
| 685321                           | 400LMT      | Bussmann | India  | 400A | 240V     | 150V     | 59mm          | 160000 | Each | 1       |
| 685348                           | 450LMT      | Bussmann | India  | 450A | 240V     | 150V     | 59mm          | 220000 | Each | 1       |



## BS88 'T' TYPE HIGH-SPEED 690V SEMI-CONDUCTOR HRC FUSELINKS

| Part Number                      | Description | Brand    | Origin | Amps | Volts AC | Volts DC | Fixing Centre | A2T   | Unit | Box Qty |
|----------------------------------|-------------|----------|--------|------|----------|----------|---------------|-------|------|---------|
| <b>690V CT High Speed Fuses</b>  |             |          |        |      |          |          |               |       |      |         |
| 690686                           | 6CT         | Bussmann | India  | 6A   | 690V     | 500V     | 64mm          | 12    | Each | 20      |
| 690694                           | 10CT        | Bussmann | India  | 10A  | 690V     | 500V     | 64mm          | 48    | Each | 20      |
| 690708                           | 12CT        | Bussmann | India  | 12A  | 690V     | 500V     | 64mm          | 65    | Each | 20      |
| 690716                           | 16CT        | Bussmann | India  | 16A  | 690V     | 500V     | 64mm          | 110   | Each | 20      |
| 690724                           | 20CT        | Bussmann | India  | 20A  | 690V     | 500V     | 64mm          | 220   | Each | 20      |
| <b>690V FE High Speed Fuses</b>  |             |          |        |      |          |          |               |       |      |         |
| 690791                           | 35FE        | Bussmann | India  | 35A  | 690V     | 500V     | 64mm          | 200   | Each | 20      |
| 690805                           | 40FE        | Bussmann | India  | 40A  | 690V     | 500V     | 64mm          | 200   | Each | 20      |
| 690813                           | 45FE        | Bussmann | India  | 45A  | 690V     | 500V     | 64mm          | 200   | Each | 20      |
| 690821                           | 50FE        | Bussmann | India  | 50A  | 690V     | 500V     | 64mm          | 200   | Each | 20      |
| 690848                           | 63FE        | Bussmann | India  | 63A  | 690V     | 500V     | 64mm          | 200   | Each | 20      |
| <b>690V FEE High Speed Fuses</b> |             |          |        |      |          |          |               |       |      |         |
| 690899                           | 100FEE      | Bussmann | India  | 100A | 690V     | 500V     | 70mm          | 2400  | Each | 5       |
| 690902                           | 120FEE      | Bussmann | India  | 120A | 690V     | 500V     | 70mm          | 3100  | Each | 5       |
| 684503                           | 140FEE      | Bussmann | India  | 140A | 690V     | 500V     | 70mm          | 3800  | Each | 5       |
| 690910                           | 160FEE      | Bussmann | India  | 160A | 690V     | 500V     | 70mm          | 5700  | Each | 5       |
| 691003                           | 200FEE      | Bussmann | India  | 200A | 690V     | 500V     | 70mm          | 11400 | Each | 5       |
| <b>690V FM High Speed Fuses</b>  |             |          |        |      |          |          |               |       |      |         |
| 690937                           | 180FM       | Bussmann | India  | 180A | 690V     | 500V     | 85mm          | 13500 | Each | 1       |
| 690945                           | 200FM       | Bussmann | India  | 200A | 690V     | 500V     | 85mm          | 18500 | Each | 1       |
| 691801                           | 225FM       | Bussmann | India  | 225A | 690V     | 500V     | 85mm          | 26500 | Each | 1       |
| 690953                           | 250FM       | Bussmann | India  | 250A | 690V     | 500V     | 85mm          | 37500 | Each | 1       |
| 690961                           | 280FM       | Bussmann | India  | 280A | 690V     | 500V     | 85mm          | 55000 | Each | 1       |
| 690988                           | 315FM       | Bussmann | India  | 315A | 690V     | 500V     | 85mm          | 77000 | Each | 1       |

# BUSSMANN Neozed D01/D02 Bottle Fuses



2NZ01



4NZ01



25NZ02



35NZ02

## NEOZED DO HRC FUSELINKS (CLASS gG) TO AS/NZS 60269

| Part Number                    | Description | Brand    | Origin | Amps | Volts | Length | Width | Unit | Box Qty |
|--------------------------------|-------------|----------|--------|------|-------|--------|-------|------|---------|
| <b>Neozed D01 Bottle Fuses</b> |             |          |        |      |       |        |       |      |         |
| 687855                         | 2NZ01       | Bussmann | India  | 2A   | 440V  | 36mm   | 11mm  | Each | 10      |
| 687863                         | 4NZ01       | Bussmann | India  | 4A   | 440V  | 36mm   | 11mm  | Each | 10      |
| 687820                         | 6NZ01       | Bussmann | India  | 6A   | 440V  | 36mm   | 11mm  | Each | 10      |
| 687839                         | 10NZ01      | Bussmann | India  | 10A  | 440V  | 36mm   | 11mm  | Each | 10      |
| 687847                         | 16NZ01      | Bussmann | India  | 16A  | 440V  | 36mm   | 11mm  | Each | 10      |
| <b>Neozed D02 Bottle Fuses</b> |             |          |        |      |       |        |       |      |         |
| 687901                         | 20NZ02      | Bussmann | India  | 20A  | 440V  | 36mm   | 15mm  | Each | 10      |
| 687928                         | 25NZ02      | Bussmann | India  | 25A  | 440V  | 36mm   | 15mm  | Each | 10      |
| 687936                         | 35NZ02      | Bussmann | India  | 35A  | 440V  | 36mm   | 15mm  | Each | 10      |
| 687944                         | 50NZ02      | Bussmann | India  | 50A  | 440V  | 36mm   | 15mm  | Each | 10      |
| 687952                         | 63NZ02      | Bussmann | India  | 63A  | 440V  | 36mm   | 15mm  | Each | 10      |



6D16



25D16



4D27



25D27

## DIAZED ND HRC FUSELINKS (CLASS gG) TO AS/NZS 60269

| Part Number             | Description | Brand    | Origin | Amps | Volts | Length | Width  | Nib Diameter | Unit | Box Qty |
|-------------------------|-------------|----------|--------|------|-------|--------|--------|--------------|------|---------|
| Diazed D16 Bottle Fuses |             |          |        |      |       |        |        |              |      |         |
| 690597                  | 2D16        | Bussmann | India  | 2A   | 500V  | 50mm   | 13.2mm | 6mm          | Each | 5       |
| 690600                  | 4D16        | Bussmann | India  | 4A   | 500V  | 50mm   | 13.2mm | 6mm          | Each | 5       |
| 690619                  | 6D16        | Bussmann | India  | 6A   | 500V  | 50mm   | 13.2mm | 6mm          | Each | 5       |
| 690627                  | 10D16       | Bussmann | India  | 10A  | 500V  | 50mm   | 13.2mm | 8mm          | Each | 5       |
| 690635                  | 16D16       | Bussmann | India  | 16A  | 500V  | 50mm   | 13.2mm | 10mm         | Each | 5       |
| 690643                  | 20D16       | Bussmann | India  | 20A  | 500V  | 50mm   | 13.2mm | 12mm         | Each | 5       |
| 690651                  | 25D16       | Bussmann | India  | 25A  | 500V  | 50mm   | 13.2mm | 14mm         | Each | 5       |
| Diazed D27 Bottle Fuses |             |          |        |      |       |        |        |              |      |         |
| 688657                  | 2D27        | Bussmann | India  | 2A   | 500V  | 50mm   | 21.5mm | 6mm          | Each | 5       |
| 688665                  | 4D27        | Bussmann | India  | 4A   | 500V  | 50mm   | 21.5mm | 6mm          | Each | 5       |
| 688673                  | 6D27        | Bussmann | India  | 6A   | 500V  | 50mm   | 21.5mm | 6mm          | Each | 5       |
| 688681                  | 10D27       | Bussmann | India  | 10A  | 500V  | 50mm   | 21.5mm | 8mm          | Each | 5       |
| 688703                  | 16D27       | Bussmann | India  | 16A  | 500V  | 50mm   | 21.5mm | 10mm         | Each | 5       |
| 688711                  | 20D27       | Bussmann | India  | 20A  | 500V  | 50mm   | 21.5mm | 12mm         | Each | 5       |
| 688738                  | 25D27       | Bussmann | India  | 25A  | 500V  | 50mm   | 21.5mm | 14mm         | Each | 5       |



12kV MV Air

## WEATHER-SEALED MV HRC FUSELINKS FOR USE IN AIR

| Part Number                       | Description             | Brand    | Origin | Amps  | Volts | Break Capacity | Dimensions | Configuration | Unit | Box Qty |
|-----------------------------------|-------------------------|----------|--------|-------|-------|----------------|------------|---------------|------|---------|
| MV 12kV Fuselinks for use in Air* |                         |          |        |       |       |                |            |               |      |         |
| 671142                            | 6.3A Air (12BDGHA6.3)   | Bussmann | India  | 6.3A  | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 670154                            | 10A Air (12BDGHA10)     | Bussmann | India  | 10A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671150                            | 16A Air (12BDGHA16)     | Bussmann | India  | 16A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671169                            | 20A Air (12BDGHA20)     | Bussmann | India  | 20A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671371                            | 25A Air (12BDGHA25)     | Bussmann | India  | 25A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 670375                            | 31.5A Air (12BDGHA31.5) | Bussmann | India  | 31.5A | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671177                            | 40A Air (12BDGHA40)     | Bussmann | India  | 40A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671185                            | 50A Air (12BDGHA50)     | Bussmann | India  | 50A   | 12kV  | 40kA           | 359Lx51Dmm | Ferrule       | Each | 3       |
| 671398                            | 56A Air (12BFGHA56)     | Bussmann | India  | 56A   | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |
| 671401                            | 63A Air (12BFGHA63)     | Bussmann | India  | 63A   | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |
| 671193                            | 80A Air (12BFGHA80)     | Bussmann | India  | 80A   | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |
| 670685                            | 90A Air (12BFGHA90)     | Bussmann | India  | 90A   | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |
| 671207                            | 100A Air (12BFGHA100)   | Bussmann | India  | 100A  | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |
| 671215                            | 125A Air (12AKGHA125)   | Bussmann | India  | 125A  | 12kV  | 40kA           | 359Lx76Dmm | Ferrule       | Each | 3       |

Fuses on this page comply to BS 2692-1 Standard



12kV MV Oil

## MV HRC FUSELINKS FOR USE IN OIL SWITCHGEAR

| Part Number                             | Description             | Brand    | Origin | Amps  | Volts | Break Capacity | Dimensions   | Configuration | Unit | Box Qty |
|-----------------------------------------|-------------------------|----------|--------|-------|-------|----------------|--------------|---------------|------|---------|
| <b>MV 12kV Fuselinks for use in Oil</b> |                         |          |        |       |       |                |              |               |      |         |
| 670251                                  | 6.3A Oil (12OEFMA6.3)   | Bussmann | India  | 6.3A  | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670243                                  | 10A Oil (12OEFMA10)     | Bussmann | India  | 10A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670278                                  | 16A Oil (12OEFMA16)     | Bussmann | India  | 16A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670286                                  | 20A Oil (12OEFMA20)     | Bussmann | India  | 20A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670065                                  | 25A Oil (12OEFMA25)     | Bussmann | India  | 25A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670073                                  | 31.5A Oil (12OEFMA31.5) | Bussmann | India  | 31.5A | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670081                                  | 40A Oil (12OEFMA40)     | Bussmann | India  | 40A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670006                                  | 50A Oil (12OEFMA50)     | Bussmann | India  | 50A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670014                                  | 63A Oil (12OEFMA63)     | Bussmann | India  | 63A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670111                                  | 71A Oil (12OHFMA71)     | Bussmann | India  | 71A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670138                                  | 80A Oil (12OHFMA80)     | Bussmann | India  | 80A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 671118                                  | 90A Oil (12OHFMA90)     | Bussmann | India  | 90A   | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 670537                                  | 100A Oil (12OHFMA100)   | Bussmann | India  | 100A  | 12kV  | 40kA           | 254Lx63.5Dmm | Ferrule       | Each | 3       |
| 671126                                  | 125A Oil (12OLGMA125)   | Bussmann | India  | 125A  | 12kV  | 40kA           | 359Lx63.5Dmm | Ferrule       | Each | 3       |
| 671134                                  | 160A Oil (12OLGMA160)   | Bussmann | India  | 160A  | 12kV  | 40kA           | 359Lx63.5Dmm | Ferrule       | Each | 3       |

Fuses on this page comply to IEC 60282-1 & BS 2692-1 Standards



12kV MV Back Up

## WEATHER-SEALED MV HRC BACK UP FUSELINKS

| Part Number                 | Description                 | Brand    | Origin | Amps  | Volts | Break Capacity | Dimensions | Configuration | Unit | Box Qty |
|-----------------------------|-----------------------------|----------|--------|-------|-------|----------------|------------|---------------|------|---------|
| MV 12kV Fuselinks – Back Up |                             |          |        |       |       |                |            |               |      |         |
| 671223                      | 6.3A Back Up (12TDLEJ6.3)   | Bussmann | India  | 6.3A  | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671231                      | 10A Back Up (12TDLEJ10)     | Bussmann | India  | 10A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671258                      | 16A Back Up (12TDLEJ16)     | Bussmann | India  | 16A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671266                      | 20A Back Up (12TDLEJ20)     | Bussmann | India  | 20A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671274                      | 25A Back Up (12TDLEJ25)     | Bussmann | India  | 25A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671282                      | 31.5A Back Up (12TDLEJ31.5) | Bussmann | India  | 31.5A | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671290                      | 40A Back Up (12TDLEJ40)     | Bussmann | India  | 40A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671304                      | 50A Back Up (12TDLEJ50)     | Bussmann | India  | 50A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671312                      | 63A Back Up (12TDLEJ63)     | Bussmann | India  | 63A   | 12kV  | 63kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671320                      | 80A Back Up (12THLEJ80)     | Bussmann | India  | 80A   | 12kV  | 63kA           | 292Lx67Dmm | Ferrule       | Each | 3       |
| 671339                      | 100A Back Up (12THLEJ100)   | Bussmann | India  | 100A  | 12kV  | 63kA           | 292Lx67Dmm | Ferrule       | Each | 3       |
| 671347                      | 125A Back Up (12TKLEJ125)   | Bussmann | India  | 125A  | 12kV  | 63kA           | 292Lx76Dmm | Ferrule       | Each | 3       |
| 671355                      | 160A Back Up (12TXLEJ160)   | Bussmann | India  | 160A  | 12kV  | 63kA           | 292Lx88Dmm | Ferrule       | Each | 3       |
| 671363                      | 200A Back Up (12TXLEJ200)   | Bussmann | India  | 200A  | 12kV  | 63kA           | 292Lx88Dmm | Ferrule       | Each | 3       |

Fuses on this page comply to IEC 60282-4 &amp; DIN 43265 Standards



12kV MV Full Range

## MV HRC FULL RANGE FUSELINKS

| Part Number                           | Description                    | Brand    | Origin | Amps  | Volts | Break Capacity | Dimensions | Configuration | Unit | Box Qty |
|---------------------------------------|--------------------------------|----------|--------|-------|-------|----------------|------------|---------------|------|---------|
| <b>MV 12kV Fuselinks – Full Range</b> |                                |          |        |       |       |                |            |               |      |         |
| 670545                                | 6.3A Full Range (12FDLSJ6.3)   | Bussmann | UK     | 6.3A  | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 670553                                | 10A Full Range (12FDLSJ10)     | Bussmann | UK     | 10A   | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 670642                                | 16A Full Range (12FDLSJ16)     | Bussmann | UK     | 16A   | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 670502                                | 20A Full Range (12FDLSJ20)     | Bussmann | UK     | 20A   | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 671010                                | 25A Full Range (12FDLSJ25)     | Bussmann | UK     | 25A   | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 670499                                | 31.5A Full Range (12FDLSJ31.5) | Bussmann | UK     | 31.5A | 12kV  | 50kA           | 292Lx51Dmm | Ferrule       | Each | 3       |
| 670030                                | 40A Full Range (12FFLSJ40)     | Bussmann | UK     | 40A   | 12kV  | 50kA           | 292Lx76Dmm | Ferrule       | Each | 3       |
| 670510                                | 50A Full Range (12FFLSJ350)    | Bussmann | UK     | 50A   | 12kV  | 50kA           | 292Lx76Dmm | Ferrule       | Each | 3       |
| 670049                                | 63A Full Range (12FFLSJ63)     | Bussmann | UK     | 63A   | 12kV  | 50kA           | 292Lx76Dmm | Ferrule       | Each | 3       |
| 670057                                | 80A Full Range (12FXLSJ80)     | Bussmann | UK     | 80A   | 12kV  | 50kA           | 292Lx88Dmm | Ferrule       | Each | 3       |
| 670529                                | 100A Full Range (12FXLSJ100)   | Bussmann | UK     | 100A  | 12kV  | 50kA           | 292Lx88Dmm | Ferrule       | Each | 3       |

Fuses on this page comply to IEC 60282-4 & DIN 43265 Standards



## TYPE T EXPULSION FUSE

| Part Number | Description | Brand        | Amps | Volts | Unit | Bag Qty |
|-------------|-------------|--------------|------|-------|------|---------|
| 673358      | 15TBR1      | Bussmann/NZI | 1A   | 15kV  | 1    | 1       |
| 673366      | 15TBR2      | Bussmann/NZI | 2A   | 15kV  | 1    | 1       |
| 673374      | 15TBR3      | Bussmann/NZI | 3A   | 15kV  | 1    | 1       |
| 673382      | 15TBR5      | Bussmann/NZI | 5A   | 15kV  | 1    | 1       |
| 673390      | 15TBR6      | Bussmann/NZI | 6A   | 15kV  | 1    | 1       |
| 673498      | 15TBR8      | Bussmann/NZI | 8A   | 15kV  | 1    | 1       |
| 673501      | 15TBR10     | Bussmann/NZI | 10A  | 15kV  | 1    | 1       |
| 673528      | 15TBR12     | Bussmann/NZI | 12A  | 15kV  | 1    | 1       |
| 673536      | 15TBR15     | Bussmann/NZI | 15A  | 15kV  | 1    | 1       |
| 673544      | 15TBR20     | Bussmann/NZI | 20A  | 15kV  | 1    | 1       |
| 673552      | 15TBR25     | Bussmann/NZI | 25A  | 15kV  | 1    | 1       |
| 673560      | 15TBR30     | Bussmann/NZI | 30A  | 15kV  | 1    | 1       |
| 673579      | 15TBR40     | Bussmann/NZI | 40A  | 15kV  | 1    | 1       |
| 673587      | 15TBR50     | Bussmann/NZI | 50A  | 15kV  | 1    | 1       |
| 673595      | 15TBR60     | Bussmann/NZI | 60A  | 15kV  | 1    | 1       |
| 673609      | 15TBR65     | Bussmann/NZI | 65A  | 15kV  | 1    | 1       |
| 673617      | 15TBR75     | Bussmann/NZI | 75A  | 15kV  | 1    | 1       |
| 673625      | 15TBR80     | Bussmann/NZI | 80A  | 15kV  | 1    | 1       |
| 673633      | 15TBR100    | Bussmann/NZI | 100A | 15kV  | 1    | 1       |