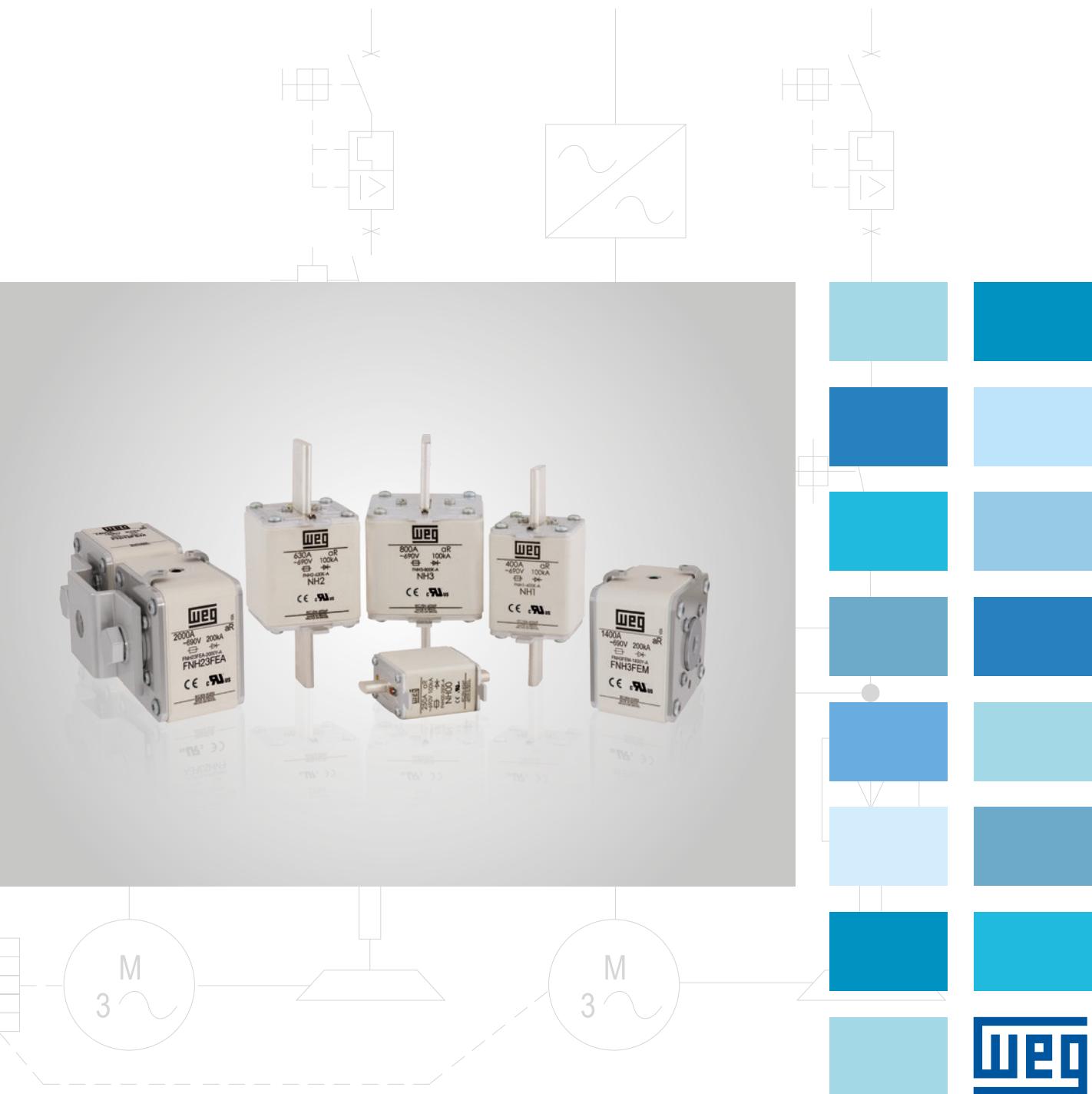


# Automation

## aR NH Blade Contact and NH Flush-End Fuses





# aR NH Blade Contact and NH Flush-End Fuses

## Summary

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## aR Fuses

WEG fuses are manufactured and tested according to international standards at currents from 20 to 2,000 A. They are available with the following construction and protection characteristics:

### aR Class High Speed Fuses, NH Blade Contact Type and NH Flush-End Type

- For protection against short-circuit in semiconductors/electronic equipment up to 690 V ac.

#### General Data

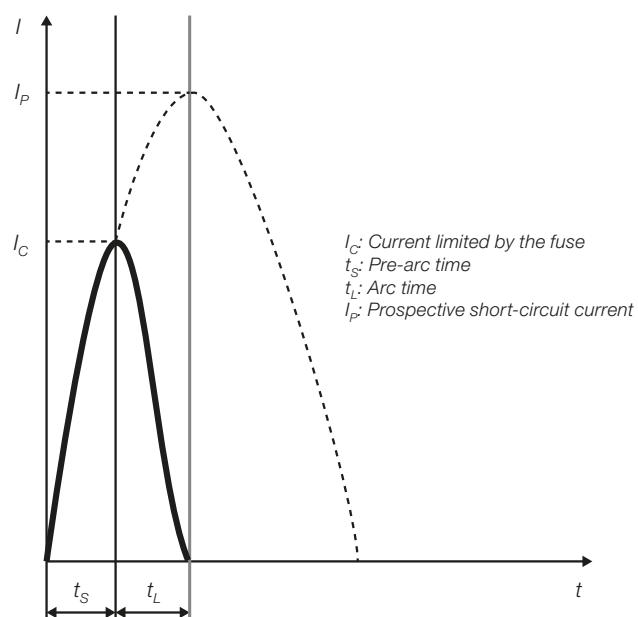
| Fuse type                             | Maximum operating voltage | Breaking capacity | Current ( $I_n$ ) | Sizes               | Compliance standards     |
|---------------------------------------|---------------------------|-------------------|-------------------|---------------------|--------------------------|
| aR class high speed NH blade contact  | 690 V ac                  | 100 kA / 690 V ac | 20 to 1,000 A     | 000, 00, 1, 2 and 3 | IEC 60269-4<br>UL 248-13 |
| aR class high speed NH flush-end type | 690 V ac                  | 200 kA / 690 V ac | 450 to 2,000 A    | 3 and 23            | IEC 60269-4<br>UL 248-13 |



### Fuse Operation

Under short-circuit or overload, the fuse element melts, breaking the electrical circuit, interrupting the passage of current.

During the short-circuit, the prospective short-circuit current will be limited according to the figure below:



## aR Class Fuses - High Speed

### Overview

The aR high speed fuses are intended for short-circuit protection of semiconductors found in low-voltage electronic devices, such as frequency inverters and soft-starters. Manufactured and tested according to IEC 60269-4 and UL 248-13 standards, with square or rectangular ceramic housings, the high speed fuses come in two types of construction:

### With Blade Contact Connection Type



Available in models:

- FNH00 - size 00
- FNH000 - size 000
- FNH1 - size 1
- FNH2 - size 2
- FNH3 - size 3

### With Thread Connection Type (Flush-End)



Available in models:

- FNH3FEM
- FNH23FEA
- (2 fuses in parallel)

### Short-Circuit Protection in AC Circuits

As the high speed fuses are aR class, they do not have overload protection.

They cannot operate above their rated current as indicated in the time x current curve. Otherwise, the fuse will be subjected to a thermal overload that will reduce its breaking capacity and its service life.

Therefore, an additional overload protection device must be used to fully protect the equipment.

### Current Limiter

The fuse acts quickly for higher multiples of current values, breaking the circuit and preventing the prospective short-circuit current IP to be reached.

## aR Class Fuses - NH Blade Contact Type

### Technical Characteristics

The aR high speed NH blade contact type fuses are assembled in a high-quality ceramic housing, filled with impregnated quartz sand, having a pure silver fuse element and silver-plated copper blade/terminals.

Such construction provides excellent electrical insulation, mechanical robustness, resistance against thermal shocks during the fuse operation and lower  $I^2t$  values.

### FNH000

| Size | Description | Characteristics          |                        |                   |                                   |  |                                |          |
|------|-------------|--------------------------|------------------------|-------------------|-----------------------------------|--|--------------------------------|----------|
|      |             | Operating voltage (V ac) | Breaking capacity (kA) | Current range (A) | $I^2t$ pre-arc (A <sup>2</sup> s) | $I^2t$ arc at 690 V (A <sup>2</sup> s) | Dissipated power (W) 0.8 ln(1) | Code     |
| 000  | FNH000      | 690                      | 100                    | 20                | 32                                | 175                                    | 2.8                            | 13735555 |
|      |             |                          |                        | 25                | 46                                | 330                                    | 3.5                            | 13735656 |
|      |             |                          |                        | 35                | 56                                | 400                                    | 6.2                            | 13737105 |
|      |             |                          |                        | 40                | 110                               | 670                                    | 6.2                            | 13737107 |
|      |             |                          |                        | 50                | 250                               | 1,550                                  | 6.5                            | 13737128 |
|      |             |                          |                        | 63                | 410                               | 2,200                                  | 8                              | 13737129 |
|      |             |                          |                        | 80                | 570                               | 3,200                                  | 12                             | 13737130 |
|      |             |                          |                        | 100               | 980                               | 6,200                                  | 14                             | 13737131 |
|      |             |                          |                        | 125               | 1,400                             | 8,100                                  | 20.5                           | 13737132 |

# aR Fuses - NH Blade Contact Type

## Technical Characteristics

**100 kA / 690 V ac**

| Reference   | Size | Technical characteristics |                             |                    | Dissipated power (W)<br>$0.8I_n$ | Code     |
|-------------|------|---------------------------|-----------------------------|--------------------|----------------------------------|----------|
|             |      | Current (A)               | $I^2t$ - pre-arc            | $I^2t$ total - arc |                                  |          |
|             |      |                           | 690 V ac (A <sup>2</sup> s) |                    |                                  |          |
| FNH00-20K-A | 00   | 20                        | 16                          | 240                | 3.2                              | 10687494 |
|             |      | 25                        | 19                          | 255                | 3.5                              | 10701722 |
|             |      | 35                        | 23                          | 430                | 5                                | 10701721 |
|             |      | 40                        | 56                          | 580                | 7                                | 10702117 |
|             |      | 50                        | 130                         | 1,430              | 9                                | 10701718 |
|             |      | 63                        | 180                         | 2,170              | 10.5                             | 10705764 |
|             |      | 80                        | 270                         | 2,710              | 13.5                             | 10705995 |
|             |      | 100                       | 400                         | 4,530              | 14                               | 10707110 |
|             |      | 125                       | 810                         | 6,350              | 16.5                             | 10707231 |
|             |      | 160                       | 2,100                       | 15,270             | 22.5                             | 10701724 |
|             |      | 200                       | 2,900                       | 25,870             | 26.5                             | 10710732 |
|             |      | 250                       | 6,200                       | 43,980             | 30.5                             | 10711445 |
| FNH1-63K-A  | 1    | 63                        | 63                          | 770                | 15                               | 10806688 |
|             |      | 80                        | 175                         | 1,610              | 19                               | 10807549 |
|             |      | 100                       | 320                         | 3,050              | 21                               | 10807553 |
|             |      | 125                       | 695                         | 6,360              | 25                               | 10807554 |
|             |      | 160                       | 1,460                       | 13,090             | 29.5                             | 10808545 |
|             |      | 200                       | 2,420                       | 16,380             | 34.5                             | 10809133 |
|             |      | 250                       | 4,920                       | 29,810             | 40.5                             | 10809489 |
|             |      | 315                       | 7,310                       | 39,590             | 48                               | 10809575 |
|             |      | 350                       | 11,430                      | 64,870             | 52                               | 10814896 |
|             |      | 400                       | 16,950                      | 98,860             | 59                               | 10815073 |
| FNH2-250K-A | 2    | 250                       | 3,390                       | 24,370             | 45.5                             | 10823581 |
|             |      | 315                       | 4,760                       | 32,780             | 57.5                             | 10823936 |
|             |      | 350                       | 7,990                       | 60,150             | 66.5                             | 10823996 |
|             |      | 400                       | 14,850                      | 92,060             | 77                               | 10824053 |
|             |      | 450                       | 18,420                      | 132,990            | 91                               | 10824055 |
|             |      | 500                       | 23,040                      | 146,250            | 103                              | 10824109 |
|             |      | 630                       | 49,130                      | 298,820            | 127                              | 10824110 |
|             |      | 710                       | 57,910                      | 378,450            | 137.5                            | 11393547 |
| FNH3-400K-A | 3    | 400                       | 6,520                       | 66,830             | 70                               | 10831217 |
|             |      | 450                       | 15,090                      | 105,220            | 74.5                             | 10832962 |
|             |      | 500                       | 18,770                      | 107,200            | 79.5                             | 10833056 |
|             |      | 630                       | 32,500                      | 222,540            | 94                               | 10833101 |
|             |      | 710                       | 56,620                      | 308,900            | 105                              | 10833591 |
|             |      | 800                       | 87,390                      | 420,500            | 117                              | 10833726 |
|             |      | 900                       | 129,380                     | 636,150            | 130                              | 11393564 |
|             |      | 1,000                     | 197,890                     | 893,350            | 150                              | 11393565 |

Note: to install the fuse on a BNH base and FSW/RFW switch-disconnector, see the current reduction factor table on page 15.

| Reduction factor for $I^2t$ at voltages below 690 V ac |  |                      |
|--|--|----------------------|
| Voltage V ac   |  | Factor to be applied |
| 127  |  | 0.43                 |
| 220  |  | 0.43                 |
| 254  |  | 0.45                 |
| 266  |  | 0.46                 |
| 277  |  | 0.48                 |
| 300  |  | 0.50                 |
| 345  |  | 0.53                 |
| 400  |  | 0.58                 |
| 440  |  | 0.62                 |
| 460  |  | 0.64                 |
| 480  |  | 0.68                 |

Note: for other voltage values, use the " $I^2t$  variation x applied voltage" curve on page 14.

## aR Class Fuses - NH Blade Contact Type

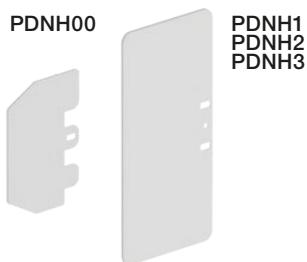
### Accessories

#### Fixing Base of NH Fuse Blade Contact (aR)



| Reference | Fuse size  | Code     |
|-----------|------------|----------|
| BNH00-160 | 000 and 00 | 10409904 |
| BNH1-250  | 1          | 10409905 |
| BNH2-400  | 2          | 10185938 |
| BNH3-630  | 3          | 10185939 |

#### Partition Wall

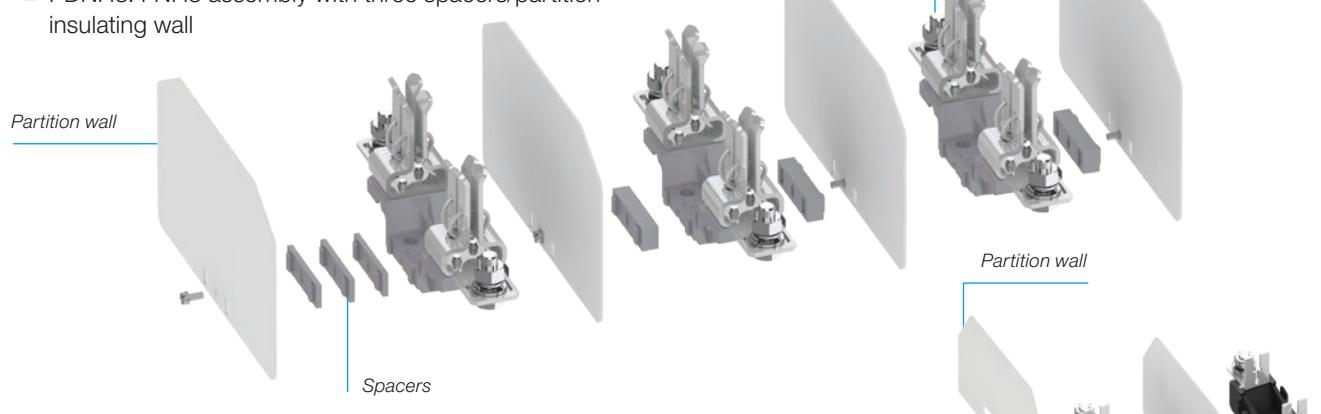


| Reference | Fuse size  | Code     |
|-----------|------------|----------|
| PDNH00    | 000 and 00 | 10185940 |
| PDNH1     | 1          | 10185941 |
| PDNH2     | 2          | 10185942 |
| PDNH3     | 3          | 10185943 |

#### Bases Assembly Partition Walls

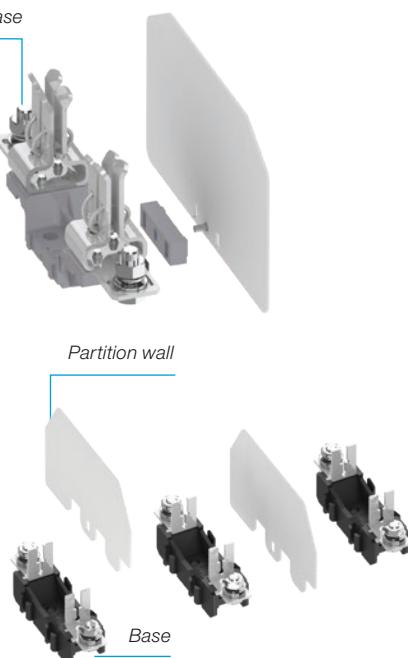
##### FNH1 / FNH2 / FNH3

- PDNH1: FNH1 mounting without spacer
- PDNH2: FNH2 assembly with one spacer
- PDNH3: FNH3 assembly with three spacers/partition insulating wall



##### FNH000 / FNH00

The BNH00 bases must be integrated only when the PDNH00 partition walls are used. In both assembly types, it is essential to keep always 25 mm between the live parts of the fuse and adjacent equipment.



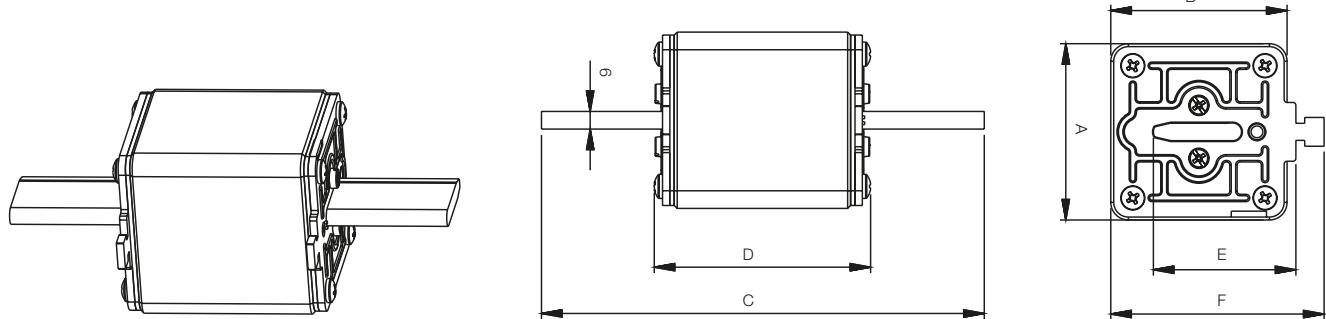
## Accessories

### NH Fuse Handle



| Reference | Code     |
|-----------|----------|
| PSFNH     | 10185944 |

## Dimensions



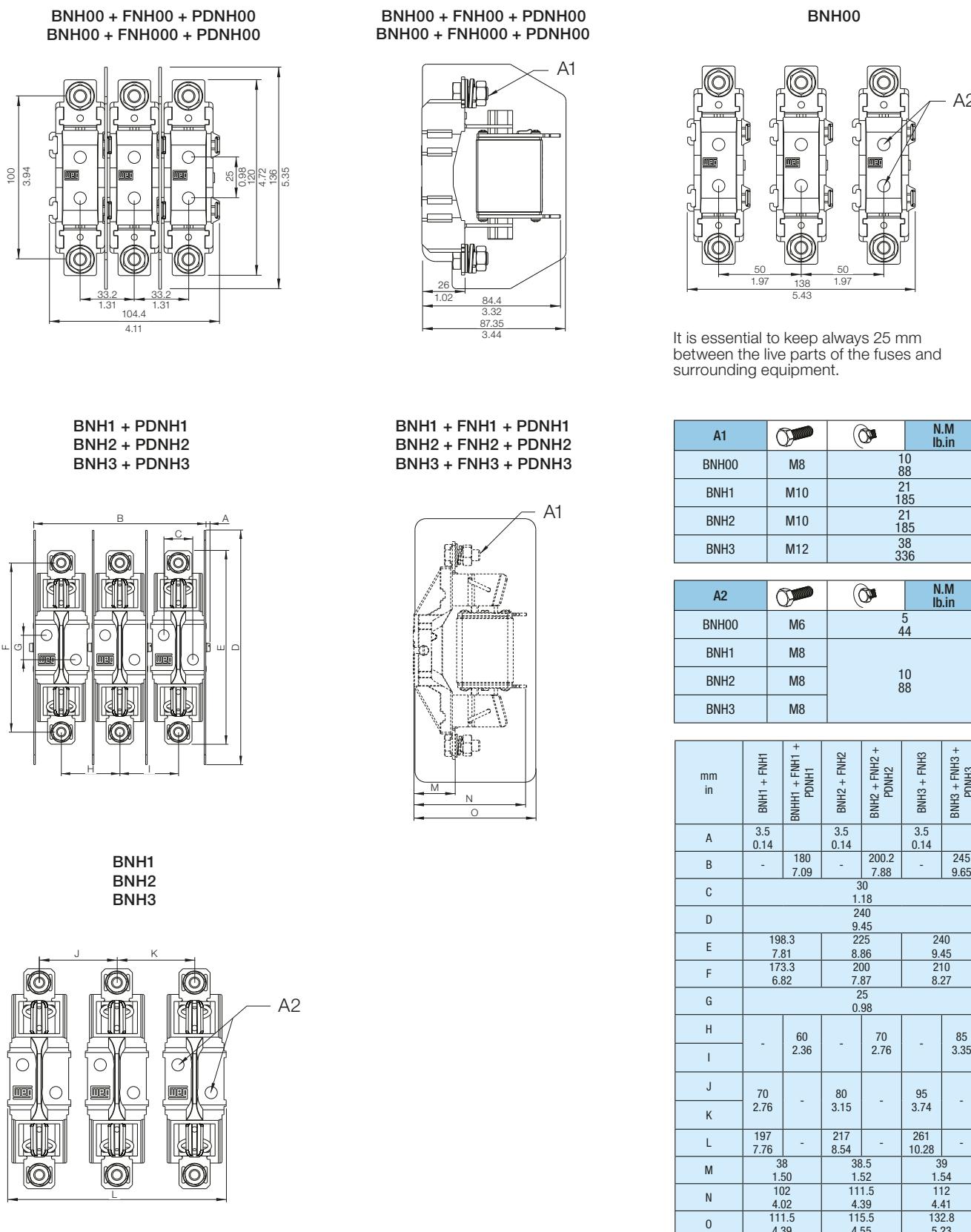
| Class | Size | Current range (A) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|-------|------|-------------------|--------|--------|--------|--------|--------|--------|
| aR    | 000  | 20 to 125         | 20.5   | 40     | 78.5   | 54     | 35     | 51     |
|       | 00   | 20 to 250         | 29.5   | 47.5   | 78.5   | 54     | 35     | 59.5   |
|       | 1    | 63 to 400         | 51.5   | 51.5   | 135    | 73     | 40     | 63.5   |
|       | 2    | 250 to 710        | 60     | 60     | 150    | 73     | 48     | 72.5   |
|       | 3    | 400 to 1,000      | 73.60  | 73.60  | 150    | 73     | 60     | 87.5   |



## aR Class Fuses - NH Blade Contact Type

### Dimensions

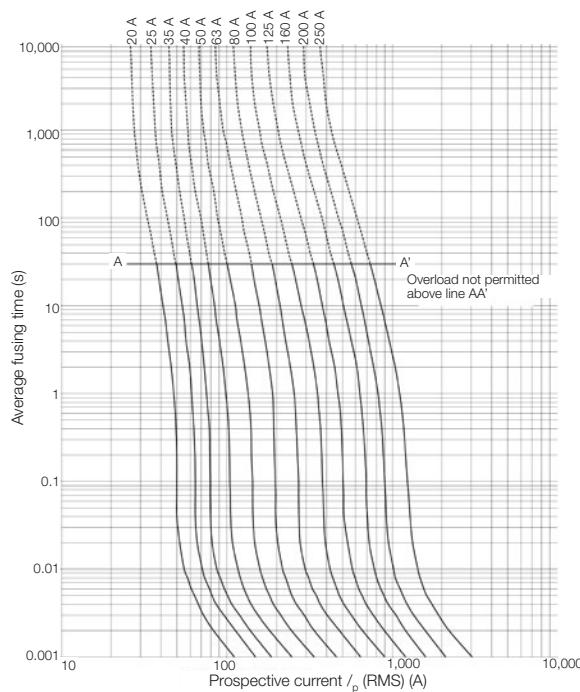
#### Base for BNH Fuse and PDNH Partition Walls



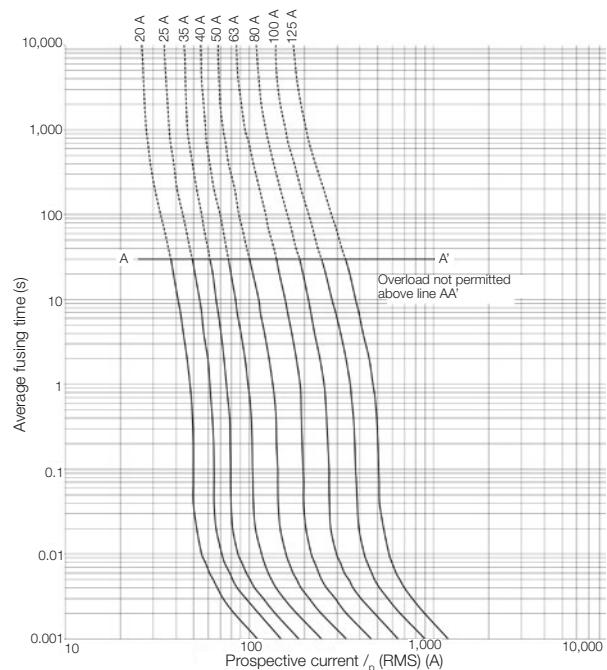
### Time x Current Curves

The time x current curves provide a graphical representation of the average fusing time of the fuse elements at ambient temperature, also called pre-arc time, in relation to the rms prospective current  $I_p$ . The FNH aR fuses with blade contact cannot operate above the 30-second time represented by line AA'. In order to protect the fuse against exposure to a condition above the line AA', an overload protection device must be used.

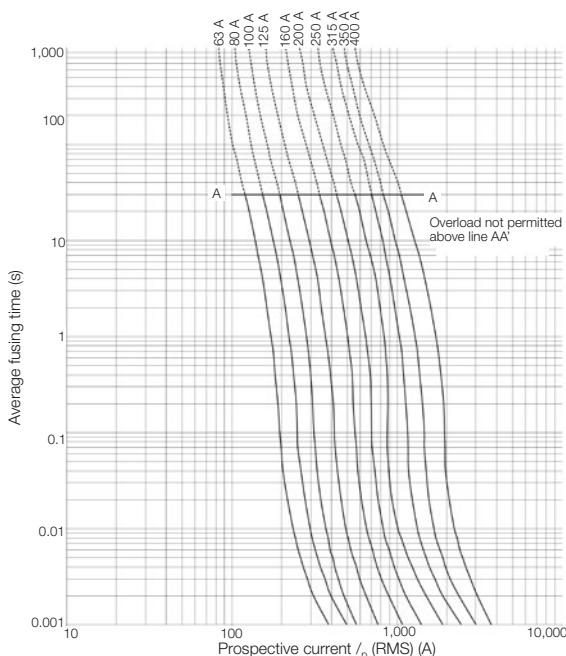
### FNH00 aR Fuses



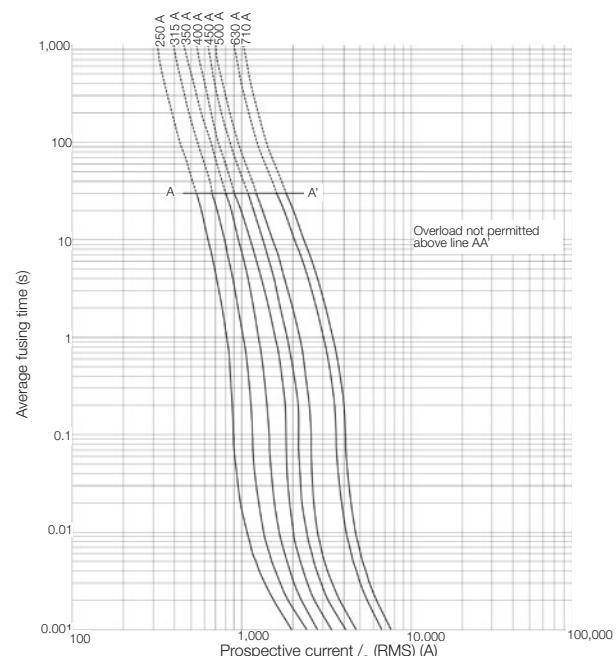
### FNH000 aR Fuses



### FNH1 aR Fuses



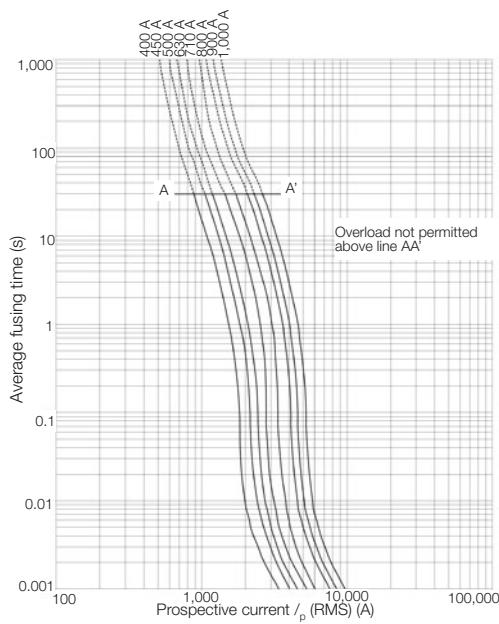
### FNH2 aR Fuses



# aR Class Fuses - NH Blade Contact Type

## Time x Current Curves

### FNH3 aR Fuses



## Current Limitation Curve

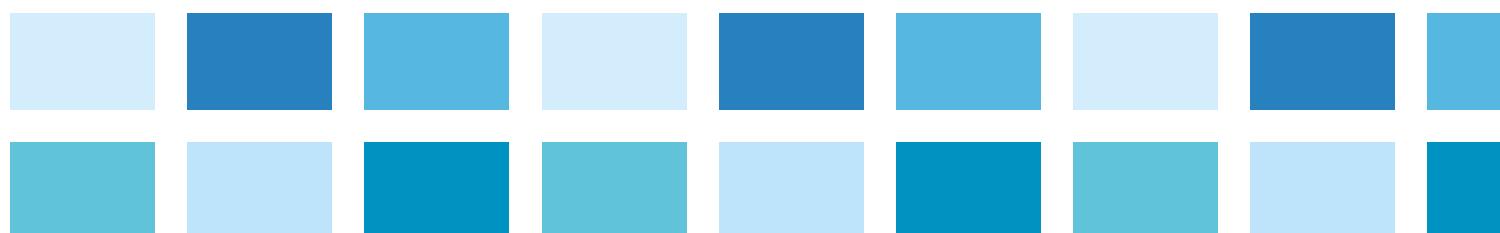
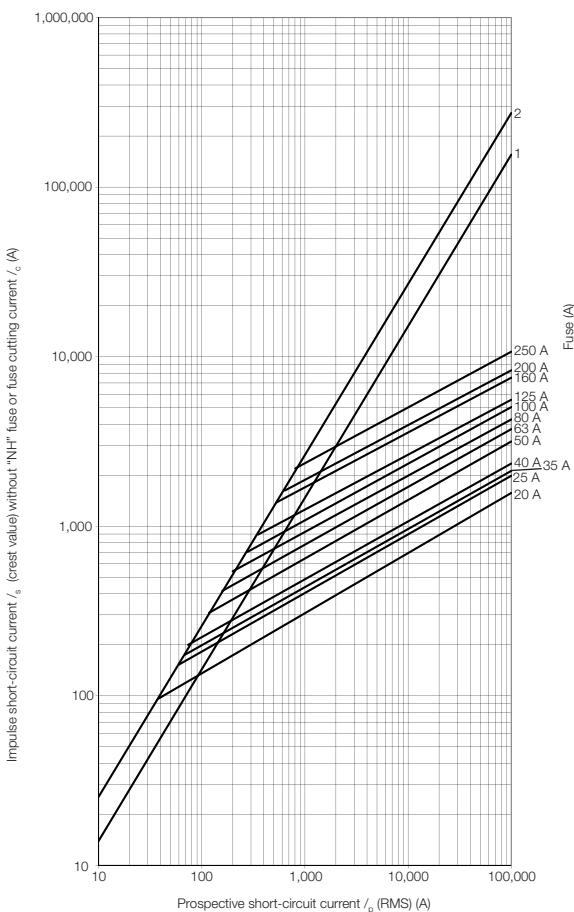
The current limitation curves show the maximum current peak during a short-circuit in relation to the RMS value of the prospective short-circuit current.

### FNH00 aR Fuses

- 1 - Symmetric short-circuit current
- 2 - Asymmetric short-circuit current

$$I_c = \sqrt{2} I_p$$

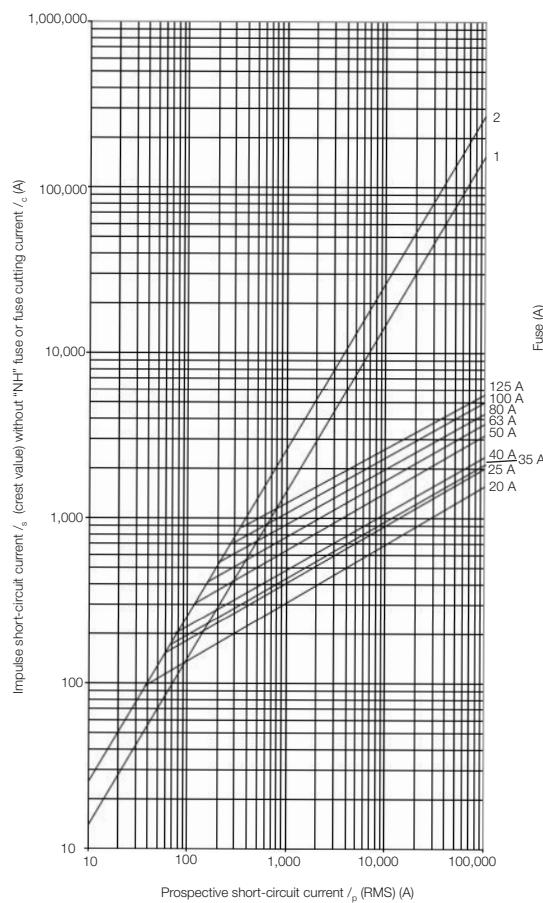
$$I_c = 2,5 I_p$$



## Current Limitation Curve

### FNH000 aR Fuses

- 1 - Symmetric short-circuit current
- 2 - Asymmetric short-circuit current

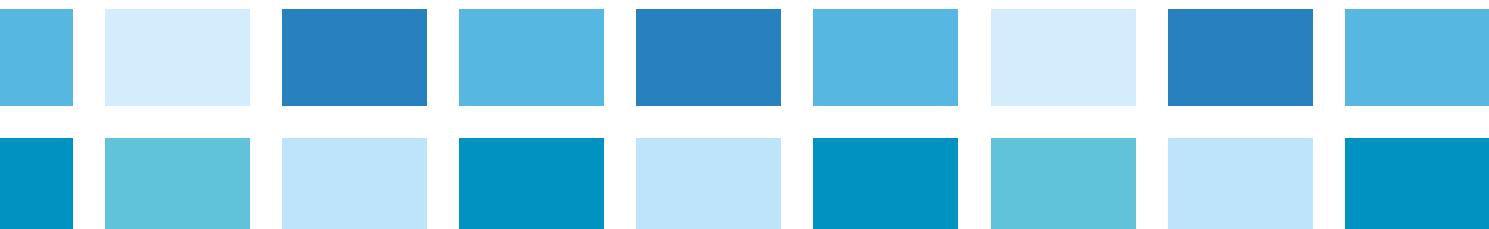
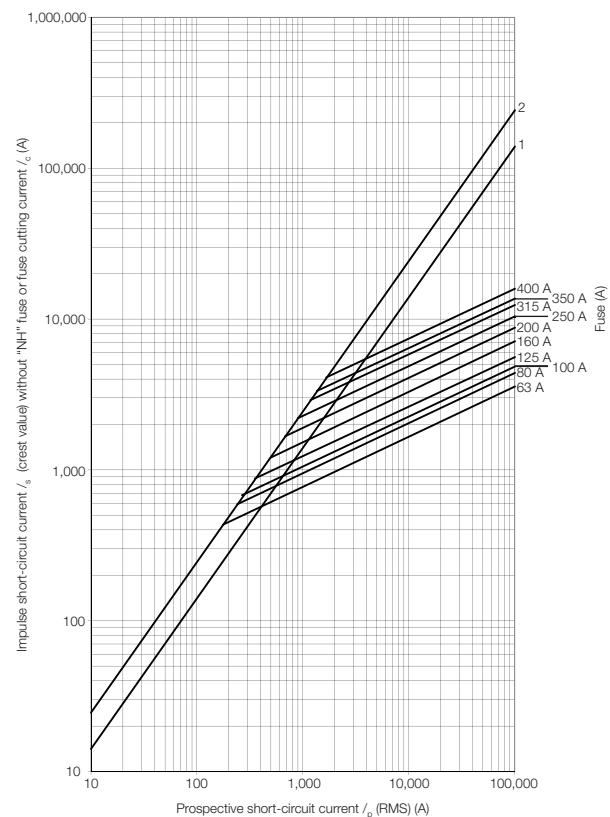


### FNH1 aR Fuse

- 1 - Symmetric short-circuit current
- 2 - Asymmetric short-circuit current

$$I_c = \sqrt{2} I_p$$

$$I_c = 2,5 I_p$$



# aR Class Fuses - NH Blade Contact Type

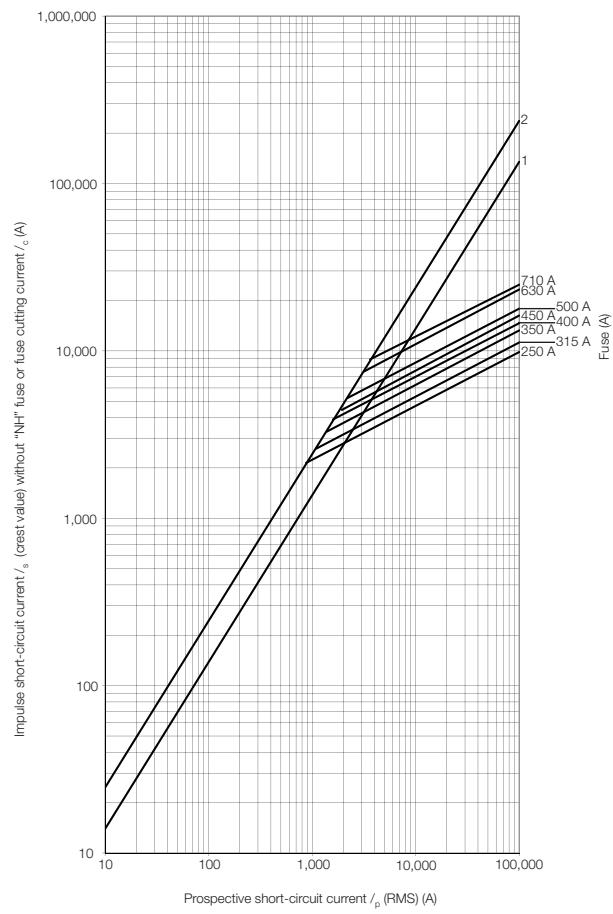
## Current Limitation Curve

### FNH2 aR Fuse

- 1 - Symmetric short-circuit current
- 2 - Asymmetric short-circuit current

$$I_c = \sqrt{2} I_p$$

$$I_c = 2,5 I_p$$

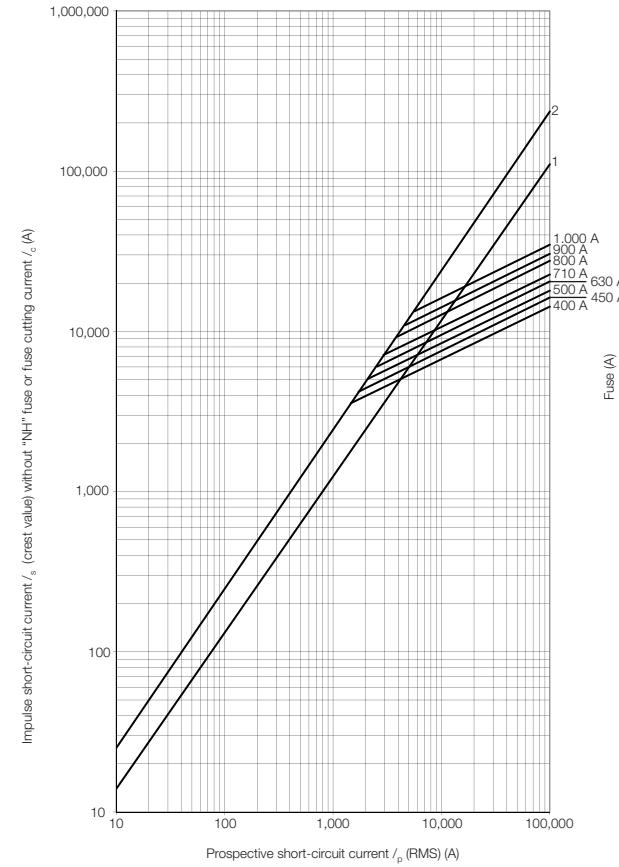


### FNH3 aR Fuse

- 1 - Symmetric short-circuit current
- 2 - Asymmetric short-circuit current

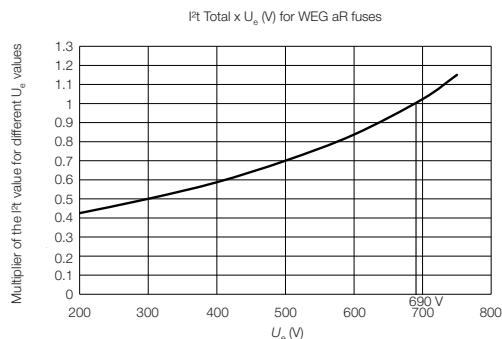
$$I_c = \sqrt{2} I_p$$

$$I_c = 2,5 I_p$$



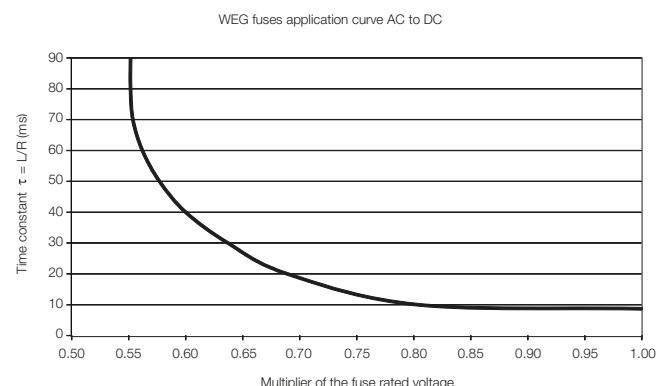
### Total I<sup>2</sup>t Variation x Applied Voltage

The presented I<sup>2</sup>t values refer to 690 V ac. For other voltages, the I<sup>2</sup>t varies according to the chart below.



### Application in DC Voltage - Definition of the DC Fuse Voltage

The curve indicates the rated voltage multiplier factor V ac of the fuse in order to obtain the maximum value of V dc voltage for different values of time constants L/R (rms) of the circuit.



New I<sup>2</sup>t total according to the applied voltage  
= multiplier x I<sup>2</sup>t total of the fuse

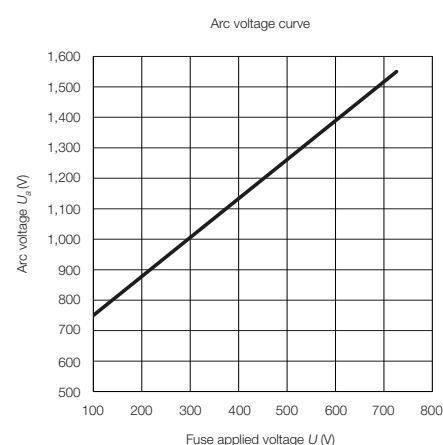
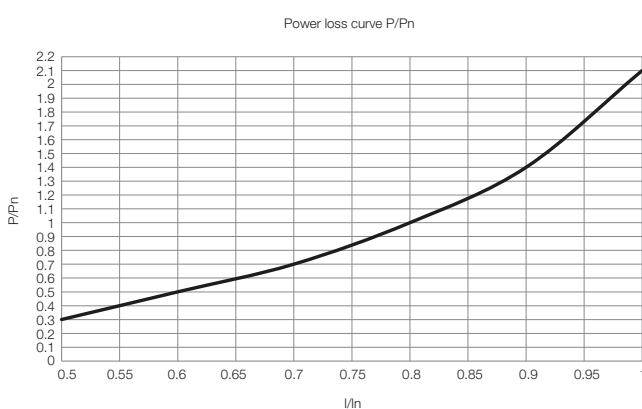
V dc = "multiplier" x 690 V ac

### Coefficient for Power Loss

The curve determines the multiplier factor to calculate the power loss of the fuse for different multiples of the rated current.

### Arc Voltage Curve

During the fault current breaking, an electric arc is formed on each strangulation of the fuse element, thus generating an arc voltage. This arc voltage varies according to the applied voltage on the fuse.



## aR Class Fuses - NH Blade Contact Type

### Current Deratings for Installation of NH aR Fuses with Blade Contact on BNH Fuse Base or FSW and RFW Switch-Disconnectors

Due to the high power dissipated by aR fuses, you must use the derating that determines the maximum allowable current for WEG FNH aR fuses with blade contacts installed on individual fixing bases or on the switch-disconnector.

| Current deratings for installation of NH aR fuses with blade contact on BNH fuse base or FSW and RFW switch-disconnectors |           |                                 |                                     |                         |  |                        |              |                        |
|---|-----------|---------------------------------|-------------------------------------|-------------------------|--|------------------------|--------------|------------------------|
| aR fuse reference   | Fuse size | aR fuse rated current $I_n$ (A) | Reduction factor                    |                         |  |                        |              |                        |
|   |           |                                 | For installation in fuse base - BNH |                         | For installation in FSW or RFW switch-disconnector |                        |              |                        |
|   |           |                                 | Reduction factor                    | Fuse base reference     | Factor (FSW)                                       | Reference FSW          | Factor (RFW) | Reference RFW          |
| FNH000-20K-A  | 000       | 20                              | 1.00                                | BNH00-160<br>(10409904) | 1.00   | FSW100-3<br>11884107   | 1.00         | RFW100-3<br>11884098   |
| FNH000-25K-A  |           | 25                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH000-35K-A  |           | 35                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH000-40K-A  |           | 40                              | 1.00                                |                         | 1.00   |                        | 0.90         |                        |
| FNH000-50K-A  |           | 50                              | 1.00                                |                         | 0.90   |                        | 0.80         |                        |
| FNH000-63K-A  |           | 63                              | 1.00                                |                         | 0.85   |                        | 0.75         |                        |
| FNH000-80K-A  |           | 80                              | 0.90                                |                         | 0.70   |                        | 0.60         |                        |
| FNH000-100K-A   |           | 100                             | 0.85                                |                         | 0.70   |                        | 0.60         |                        |
| FNH000-125K-A   |           | 125                             | 0.80                                |                         | 0.65   |                        | 0.55         |                        |
| FNH00-20K-A   | 00        | 20                              | 1.00                                | BNH00-160<br>(10409904) | 1.00   | FSW160-3<br>(11884182) | 1.00         | RFW160-3<br>(11884099) |
| FNH00-25K-A   |           | 25                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH00-35K-A   |           | 35                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH00-40K-A   |           | 40                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH00-50K-A   |           | 50                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH00-63K-A   |           | 63                              | 1.00                                |                         | 1.00   |                        | 1.00         |                        |
| FNH00-80K-A   |           | 80                              | 1.00                                |                         | 0.95   |                        | 0.95         |                        |
| FNH00-100K-A  |           | 100                             | 1.00                                |                         | 0.90   |                        | 0.90         |                        |
| FNH00-125K-A  |           | 125                             | 1.00                                |                         | 0.85   |                        | 0.85         |                        |
| FNH00-160K-A  |           | 160                             | 0.90                                |                         | 0.75   |                        | 0.75         |                        |
| FNH00-200K-A  |           | 200                             | 0.85                                |                         | 0.70   |                        | 0.70         |                        |
| FNH00-250K-A  |           | 250                             | 0.80                                |                         | 0.60   |                        | 0.60         |                        |
| FNH1-63K-A  | 1         | 63                              | 1.00                                | BNH1-250<br>(10409905)  | 0.95   | FSW250-3<br>(11884179) | 0.95         | RFW250-3<br>(11884100) |
| FNH1-80K-A  |           | 80                              | 0.95                                |                         | 0.85   |                        | 0.85         |                        |
| FNH1-100K-A   |           | 100                             | 0.95                                |                         | 0.85   |                        | 0.85         |                        |
| FNH1-125K-A   |           | 125                             | 0.90                                |                         | 0.80   |                        | 0.80         |                        |
| FNH1-160K-A   |           | 160                             | 0.85                                |                         | 0.75   |                        | 0.75         |                        |
| FNH1-200K-A   |           | 200                             | 0.80                                |                         | 0.70   |                        | 0.70         |                        |
| FNH1-250K-A   |           | 250                             | 0.75                                |                         | 0.70   |                        | 0.70         |                        |
| FNH1-315K-A   |           | 315                             | 0.75                                |                         | 0.65   |                        | 0.65         |                        |
| FNH1-350K-A   |           | 350                             | 0.70                                |                         | 0.65   |                        | 0.65         |                        |
| FNH1-400K-A   |           | 400                             | 0.70                                |                         | 0.60   |                        | 0.60         |                        |
| FNH2-250K-A   | 2         | 250                             | 0.90                                | BNH2-400<br>(10185938)  | 0.80   | FSW400-3<br>(11884180) | 0.80         | RFW400-3<br>(11884101) |
| FNH2-315K-A   |           | 315                             | 0.90                                |                         | 0.80   |                        | 0.80         |                        |
| FNH2-350K-A   |           | 350                             | 0.85                                |                         | 0.75   |                        | 0.75         |                        |
| FNH2-400K-A   |           | 400                             | 0.80                                |                         | 0.70   |                        | 0.70         |                        |
| FNH2-450K-A   |           | 450                             | 0.80                                |                         | 0.70   |                        | 0.70         |                        |
| FNH2-500K-A   |           | 500                             | 0.75                                |                         | 0.65   |                        | 0.65         |                        |
| FNH2-630K-A   |           | 630                             | 0.70                                |                         | 0.60   |                        | 0.60         |                        |
| FNH2-710K-A   |           | 710                             | 0.70                                |                         | 0.55   |                        | 0.55         |                        |
| FNH3-400K-A   | 3         | 400                             | 0.80                                | BNH3-630<br>(10185939)  | 0.75   | FSW630-3<br>(11884181) | 0.75         | RFW630-3<br>(11884103) |
| FNH3-450K-A   |           | 450                             | 0.80                                |                         | 0.75   |                        | 0.75         |                        |
| FNH3-500K-A   |           | 500                             | 0.75                                |                         | 0.70   |                        | 0.70         |                        |
| FNH3-630K-A   |           | 630                             | 0.75                                |                         | 0.65   |                        | 0.65         |                        |
| FNH3-710K-A   |           | 710                             | 0.75                                |                         | 0.65   |                        | 0.65         |                        |
| FNH3-800K-A   |           | 800                             | 0.75                                |                         | 0.60   |                        | 0.60         |                        |
| FNH3-900K-A   |           | 900                             | 0.70                                |                         | 0.55   |                        | 0.55         |                        |
| FNH3-1000K-A  |           | 1,000                           | 0.70                                |                         | 0.55   |                        | 0.55         |                        |

Examples: How to calculate the maximum load current (continuous operation) for the fuse:

Considering that the dimensioned fuse is FNH2-630K-A (630 A, size 2). Option 1 – installed on BNH2-400.

The maximum continuous operation current the fuse withstands will be  $630 \text{ A} \times 0.7 = 441 \text{ A}$ . Option 2 – installed on FSW400-3 switch-disconnector.

The maximum continuous operation current the fuse withstands will be  $630 \text{ A} \times 0.6 = 378 \text{ A}$ . Option 3 – installed on rotary switch-disconnector-fuse.

The maximum continuous operation current the fuse withstands will be  $630 \text{ A} \times 0.6 = 378 \text{ A}$ .



## aR Class Fuses - NH Flush-End Type

### Technical Characteristics

The aR high speed NH flush-end fuses are mounted in high-quality ceramic housings. They have impregnated quartz sand filling, fuse elements of pure silver, and silver plated copper connections, providing excellent electric insulation, mechanical strength, resistance against thermal shocks during the fuse actuation and reduced  $I^2t$  values. Its structure is prepared for direct fixation to the copper bar, not requiring individual fixation bases or switch-disconnectors.

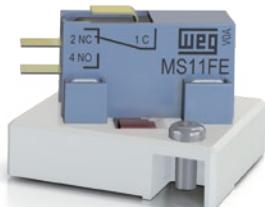
### 200 kA / 690 V ac

| Reference                   | Size | Technical characteristics of the aR FNH flush-end fuses |                                   |                               |                                     |          |
|-----------------------------|------|---|-----------------------------------|-------------------------------|-------------------------------------|----------|
|                             |      | Current $I_n$ (A)                                       | $I^2t$ pre-arc (A <sup>2</sup> s) | $I^2t$ arc (A <sup>2</sup> s) | Dissipated power (W) $1 \times I_n$ | Code     |
| 660 V ac (A <sup>2</sup> s) |      |   |                                   |                               |                                     |          |
| FNH3FEM-450Y-A              | 3    | 450   | 32,000                            | 94,500                        | 115                                 | 12644962 |
| FNH3FEM-500Y-A              |      | 500   | 40,000                            | 129,000                       | 115                                 | 12645317 |
| FNH3FEM-550Y-A              |      | 550   | 66,500                            | 177,000                       | 120                                 | 12660187 |
| FNH3FEM-630Y-A              |      | 630   | 84,000                            | 227,000                       | 120                                 | 12660583 |
| FNH3FEM-700Y-A              |      | 700   | 100,000                           | 309,000                       | 125                                 | 12660657 |
| FNH3FEM-800Y-A              |      | 800   | 140,500                           | 470,000                       | 135                                 | 12661660 |
| FNH3FEM-900Y-A              |      | 900   | 180,000                           | 650,000                       | 135                                 | 12661662 |
| FNH3FEM-1000Y-A             |      | 1,000   | 239,500                           | 890,000                       | 145                                 | 12661663 |
| NH3FEM-1100Y-A              |      | 1,100   | 292,000                           | 1,340,000                     | 150                                 | 12661664 |
| FNH3FEM-1250Y-A             |      | 1,250   | 385,000                           | 1,970,000                     | 155                                 | 12661665 |
| FNH3FEM-1400Y-A             |      | 1,400   | 500,000                           | 2,680,000                     | 215                                 | 12661666 |
| FNH23FEA-1000Y-A            | 23   | 1,000   | 151,000                           | 446,000                       | 230                                 | 12644745 |
| FNH23FEA-1250Y-A            |      | 1,250   | 213,000                           | 822,000                       | 250                                 | 12661667 |
| FNH23FEA-1400Y-A            |      | 1,400   | 279,000                           | 1,050,000                     | 270                                 | 12661688 |
| FNH23FEA-1600Y-A            |      | 1,600   | 360,000                           | 1,760,000                     | 295                                 | 12661689 |
| FNH23FEA-1800Y-A            |      | 1,800   | 529,000                           | 2,430,000                     | 320                                 | 12661690 |
| FNH23FEA-2000Y-A            |      | 2,000   | 710,000                           | 3,170,000                     | 365                                 | 12661692 |

# aR Class Fuses - NH Flush-End Type

## Accessories

### Auxiliary Contact for Flush-End Fuse



| Reference | Description                          | Code     |
|-----------|--------------------------------------|----------|
| MS11FE    | Microswitch fusible Flush-End MS11FE | 12626734 |

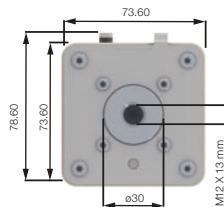


| Technical characteristics MS11FE                      |                                     |                     |
|---|-------------------------------------|---------------------|
| Auxiliary contacts                                    |                                     | 1NC and 1NO         |
| Rated voltage ( $U_e$ )                               |                                     | 250 V ac            |
| Rated current ( $I_e$ )                               |                                     | 15 A                |
| WEG MS11FE microswitch technical data                 |                                     |                     |
| Breaking capacity                                     | Resistive load                      | 250 V ac @ 50/60 Hz |
|   |                                     | 8 V dc              |
|   |                                     | 30 V dc             |
|   |                                     | 125 V dc            |
|   | Inductive load <sup>1)</sup>        | 250 V dc            |
|   |                                     | 250 V ac @ 50/60 Hz |
|   |                                     | 8 V dc              |
|   |                                     | 30 V dc             |
|   |                                     | 125 V dc            |
| Dielectric withstand                                  | Between non-continuous terminals    | 1,000 V ac          |
| -   | Between terminals and power circuit | 1,500 V ac          |
| Minimum voltage / permissible current - IEC 60947-5-4 |                                     | 20 V / 50 mA        |
| Degree of protection according to IEC 60529           |                                     | IP00                |
| Flammability according to                             |                                     | UL 94               |
| Terminals   |                                     | Faston #187         |

Note: 1) Power factor 0.4 min. (V ac) and time constant of 7ms max. (V dc).

## Dimensions

### FNH3FEM

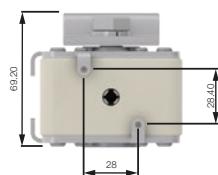
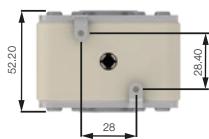
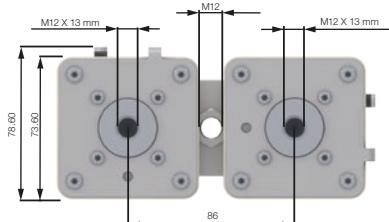


Mass: 820 g

### FNH23FEA



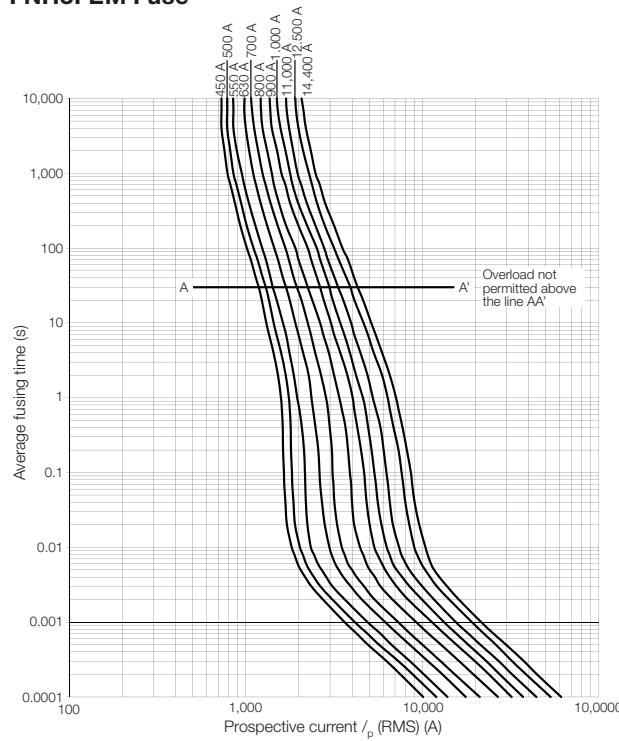
Mass: 1,970 g



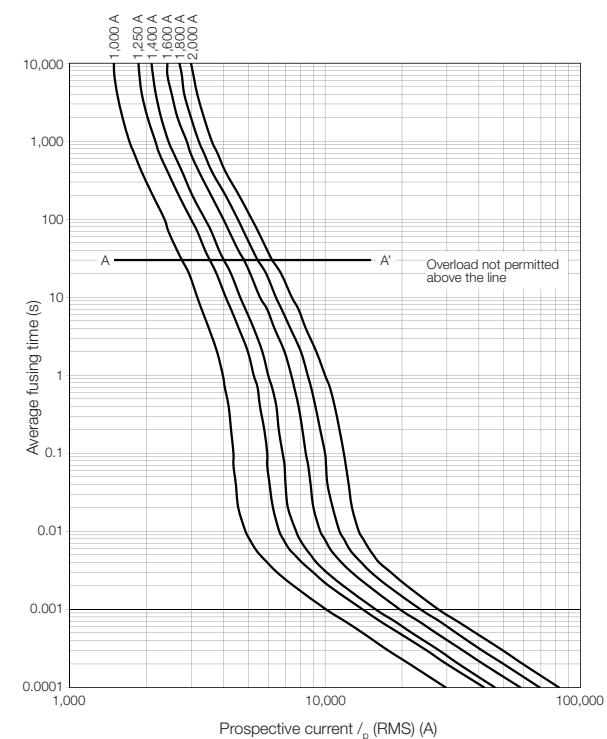
## Time x Current Curves

The time x current curves provide a graphical representation of the average fusing time of the fuse elements at ambient temperature, also called pre-arc time, in relation to the rms prospective current  $I_p$ . The FNH flush-end fuses cannot operate above the 30-second time represented by line AA'. In order to protect the fuse against exposure to a condition above the line AA', an overload protection device must be used.

### FNH3FEM Fuse



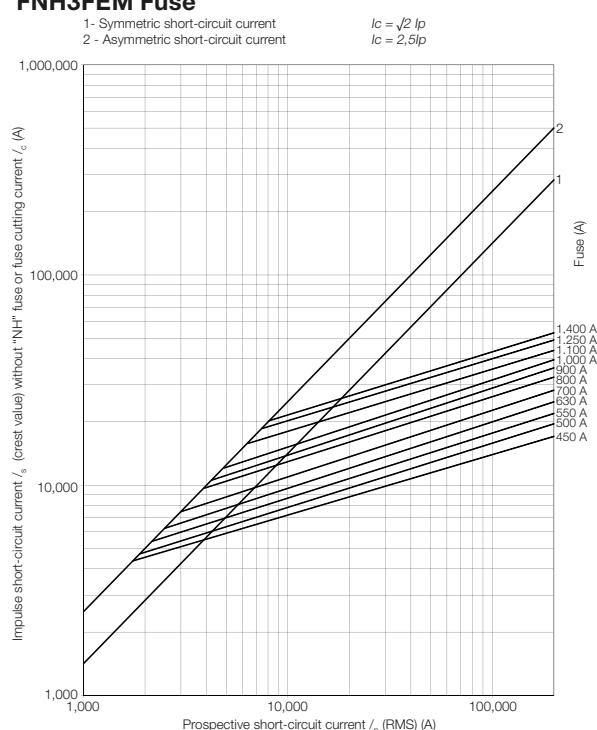
### FNH23FEA Fuse



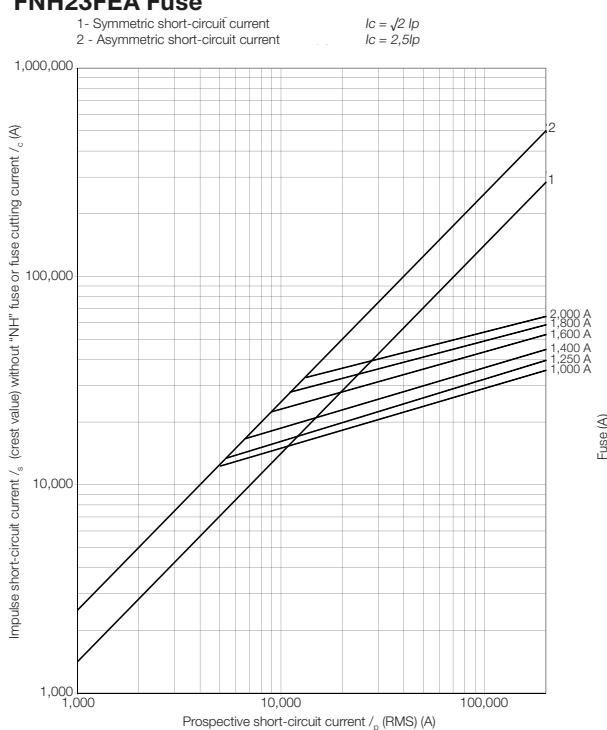
## Current Limitation Curves

The current limitation curves show the maximum current peak during a short-circuit in relation to the RMS value of the prospective short-circuit current.

### FNH3FEM Fuse



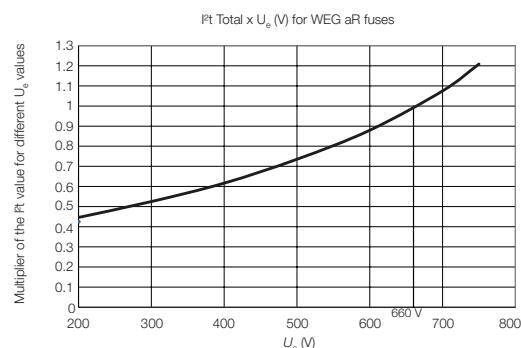
### FNH23FEA Fuse



## aR Class Fuses - NH Flush-End Type

### Total $I^2t$ Variation x Applied Voltage

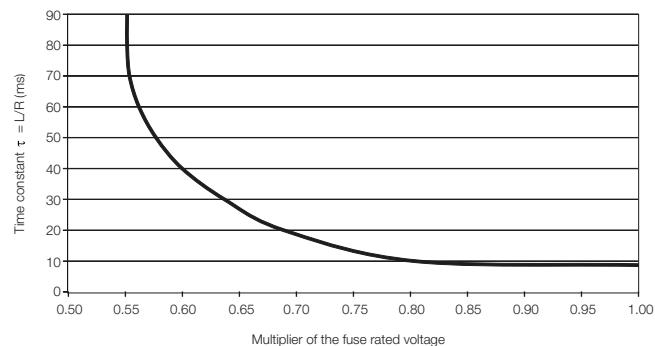
The presented  $I^2t$  values refer to 690 V ac. For other voltages, the  $I^2t$  reduces according to the chart below.



### Application in DC Voltage - Definition of the DC Fuse Voltage

The curve indicates the rated voltage multiplier factor  $V$  ac of the fuse in order to obtain the maximum value of  $V$  dc voltage for different values of time constants  $L/R$  (rms) of the circuit.  
 $V$  dc = "multiplier" x 690 V ac

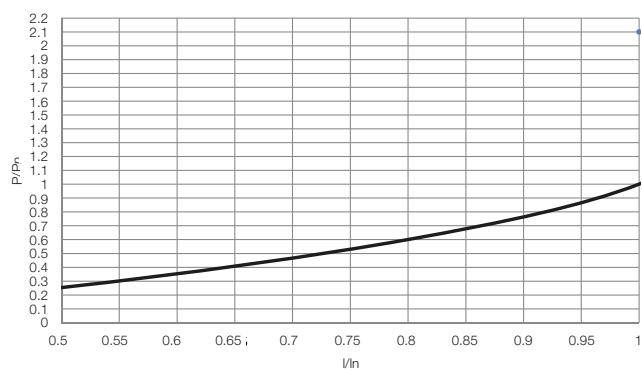
### WEG Fuses Application Curve AC to DC



### Coefficient for Power Loss

The curve determines the multiplier factor to calculate the power loss of the fuse for different multiples of the rated current.

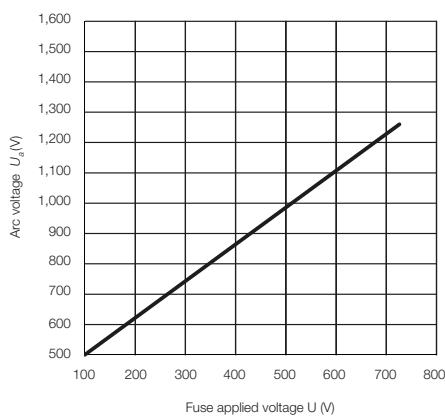
### Power Loss Curve P/Pn



### Arc Voltage Curve

During the fault current breaking, an electric arc is formed on each strangulation of the fuse element, thus generating an arc voltage. This arc voltage varies with the applied voltage on the fuse.

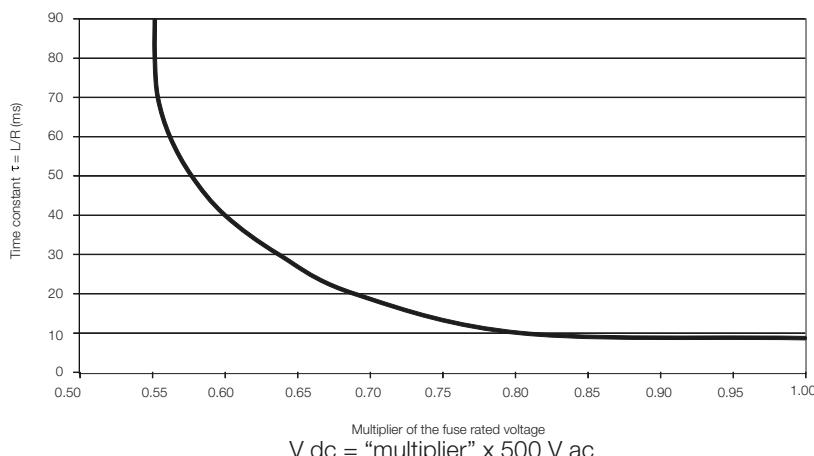
### Arc Voltage Curve



### Application in DC Voltage - Definition of the DC Fuse Voltage

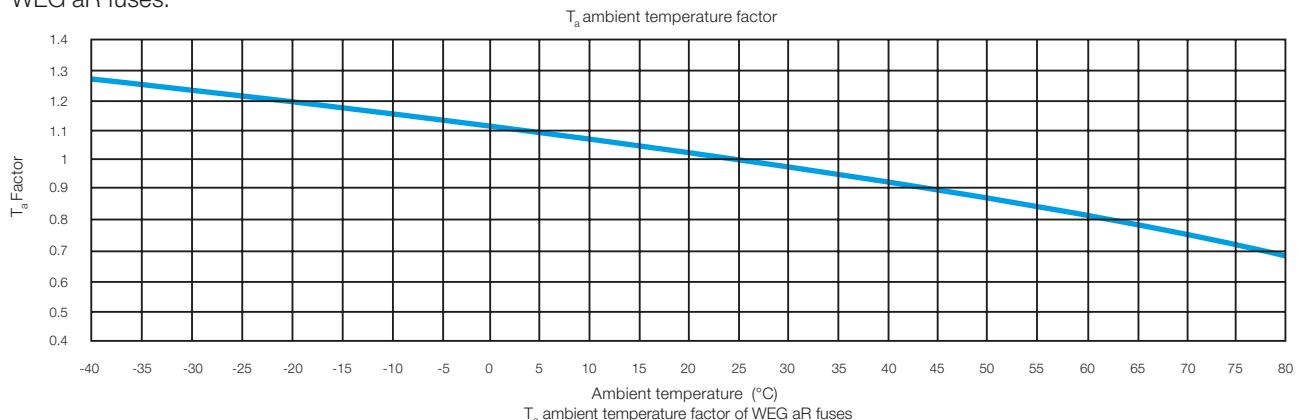
The curve indicates the fuse V ac rated voltage multiplier to obtain the maximum V dc voltage, considering different time constants L/R (rms) of the circuit.

#### WEG Fuses Application Curve AC to DC



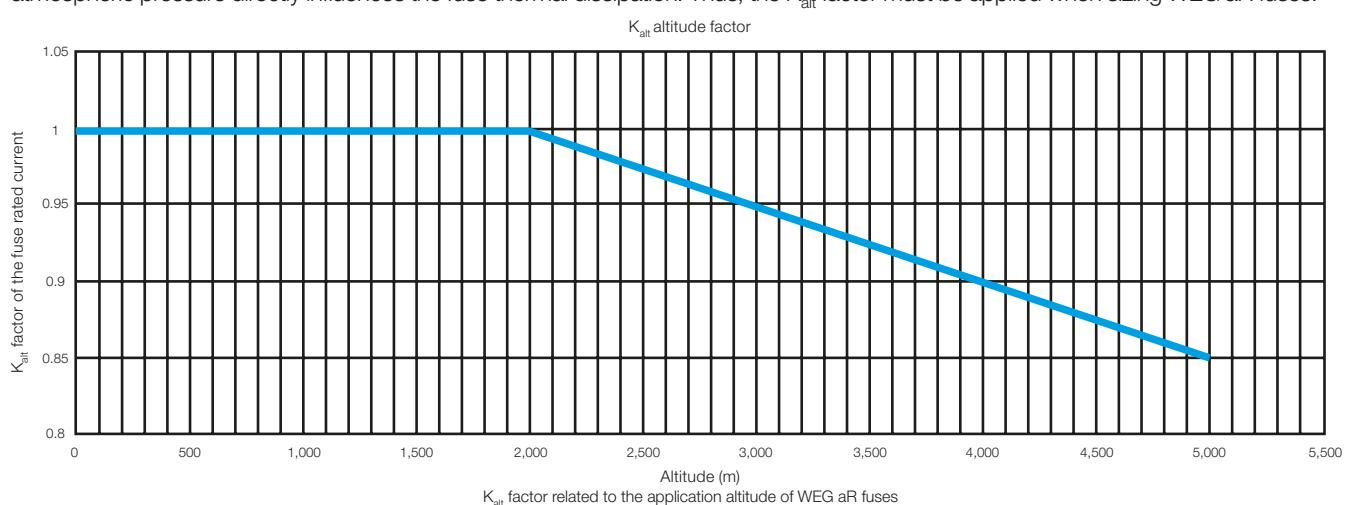
#### Ambient Temperature

WEG aR fuses are sized to operate in environments at  $25 \pm 5^\circ\text{C}$ . Fuses installed in environments with different temperatures have different heat dissipation rates, reducing or increasing their rated current. Thus, the  $T_a$  factor must be applied when sizing WEG aR fuses.



#### Altitude

The installation of WEG aR fuses must not exceed 2,000 meters above sea level, according to IEC 60269. Above such altitude, the low atmospheric pressure directly influences the fuse thermal dissipation. Thus, the  $K_{alt}$  factor must be applied when sizing WEG aR fuses.



# Appendix 1: Sizing Criteria for High Speed aR Fuses with Blade Contact and Flush-End

## 1. Conceptualization

aR class fuses, according to IEC 60269, feature low values of  $I^2t$  and are used for short-circuit protection in semiconductor applications. Due to this fact, they should not be used in situations of small overloads, since under such conditions the fuse may undergo thermal overloads, causing their improper operation and reduction of their breaking capacity. Therefore, aR WEG high-speed fuses use a load constant  $A = 0.8$ . In other words, the fuse rated current must be at least 20% higher than the rated current of the circuit.

## 2. Sizing

Several conditions influence the current carrying capacity of a fuse, for example, ambient temperature, forced ventilation and the cross section of bars or cables. It is important to notice that cyclic overload events are the most critical condition which may cause the premature melting of the fuse element. Devices with built-in semiconductors and consequently high-speed fuses often undergo repeated or cyclical overloads. Under such conditions, the fuse element temperature rises, which may cause its melting or fatigue, resulting in improper operation. In order to avoid the consequences of cyclical overloads, WEG aR fuses must be sized so that their fusion current is preferably greater than the overload current for the same period, according to Table 1 below.

| aR fuse connection type | Model    | Fusion current multiples that the fuse must be greater than the overload current for the same period |
|-------------------------|----------|--|
| Blade contact           | FNH00    | 2.0  |
|                         | FNH1     | 2.5  |
|                         | FNH2     |  |
|                         | FNH3     |  |
| Flush end               | FNH3FEM  | 2 <sup>1)</sup>  |
|                         | FNH23FEA |  |

Note: 1) Use 1.6 factor for WEG SSW line of soft-starters.

Table 1 - Fusion current multiples that WEG aR fuse must be above the overload current for the same period.

Example: for a rated current of  $I_n = 150$  A, which often has overloads of 450 A with 5-second durations, it is necessary to size the fuse for a fusion current of at least 900 A for 5s considering the size 00, or a current of 1,125 A for 5s for sizes 1, 2 or 3.

In general, the following points should be checked for the proper sizing of aR fuses:

- **Circuit current type - AC or DC.** For DC circuits, the maximum voltage on the fuse must respect the DC application characteristic curve of WEG fuses - see "aR and gL/gG Fuses" catalog.
- **$I^2t$  of the fuse must be smaller than the  $I^2t$  value of the semiconductor.** This analysis must consider the fuse  $I^2t$  value in relation to the voltage applied to the fuse - see the "aR and gL/gG Fuses" catalogs and the value recommended by the semiconductor manufacturer.
- **The fuse rated current.** The rated current of the WEG aR fuse must be at least 20% greater than the load rated current for the conditions without any cyclical overload. In such cases, the current reduction values must also be observed for the fuses installed on individual bases and/or switch-disconnectors. For cyclical conditions, such as application of soft-starters and frequency inverters, the sizing of WEG aR fuses must respect the specifications of table 1 above.
- **Installation of aR fuses on BNH bases or SFW fuse switch-disconnectors.** The electric current value during constant operation applied to aR NH-type fuses must not exceed the "reduced" values for use on fuse bases and fuse switch-disconnectors - see the "Current reduction factors for installation of aR fuses on BNH fuse bases and SFW switch-disconnectors" in the "aR and gL/gG Fuses" catalog.
- **Association of fuses in parallel.** For this condition, in addition to complying with the specifications described in the previous topics, the fuses in parallel must have the same characteristics, that is, they must have the same size and rated current range to avoid unbalanced load. The bars or cables must have the same length to equalize all circuit impedances.

The  $I^2t$  value of fuses connected in parallel is calculated by:

$$I^2t_{\text{parallel}} = I^2t \times n^2, \text{ where:}$$

$I^2t_{\text{parallel}}$  - is the value of  $I^2t$  of the equal fuse set connected in parallel.

$I^2t$  - is the value of  $I^2t$  of the individual fuse, sized according to the circuit voltage.

$n$  - is the number of equal fuses connected in parallel.

### 3. Sizing Examples

#### 3.1 - SSW06 Soft-Starte (220 to 690 V ac) 130 A

Sizing a WEG aR fuse to protect a SSW06 soft-starter 130 A and its three-phase load with the following characteristics:

- Maximum  $I^2t$  of the fuse to protect the SSW06 130 A: 63,000 A<sup>2</sup>s
- Supply voltage: Y 690 V ac
- Load rated current in continuous operation:  $I_n = 100$  A
- Starting current:  $I_p = 3xI_n = 300$  A
- Acceleration time: 30s

#### 3.2 - Rated Current of the Fuse

The rated current of the fuse for continuous operation must be sized according to the equation below, considering:

- Rated current of the load = load IRMS = 100 A
- For constant load,  $A_1 = 0.8$

$$\text{Thus: } I_n \geq \frac{I_{\text{RMS of the load}}}{A_1} = \frac{100}{0.8} = 125 \text{ A}$$

Therefore, considering only the constant load operation, a WEG fuse size 00 of **125 A** should be used for each phase, presenting  $I^2t = 6,350$  A<sup>2</sup>s at 690 V and derating factor of  $1xI_n$ , and  $0.85xI_n$  when assembled on individual base and switch-disconnector respectively. However, as cyclic overloads of 300 A are present during the load starting, such fuse would operate improperly.

#### 3.3 - Analysis of Cyclic Overload

The dimensioned fuse must observe Table 1 so as to avoid improper operation during the cyclic starting current of the load.

Thus, in case a WEG aR fuse size 00 is used, the fusion current in 30s must be at least 600 A (300 x 2). For WEG aR fuses sizes 1, 2 and 3, the fuse fusion current in 30 s must be at least 750 A (300 x 2.5). Through the time x current curves of the WEG aR fuse contained in the "aR and gL/gG Fuses" catalog, the conclusion is that the fuse for this application is **WEG aR FNH00 250 A** (which acts in 30 seconds with approximately 700 A).

#### 3.4 - $I^2t$ of the Fuse

This fuse has  $I^2t$  of 43,980 at 690 V. As the power supply is in star connection, the fuse voltage is the phase voltage and not the line voltage of 690 V. Thus:

$$V_F = \frac{V_L}{\sqrt{3}} = \frac{690}{\sqrt{3}} = 398.3 \text{ V}$$

On the graphic "Variation of total  $I^2t$  x operating voltage" of the "aR and gL/gG Fuses" catalog, we observe that the  $I^2t$  value of WEG aR FNH00 250 A is reduced to 58% of the value at 690 V, resulting in 25,509 A<sup>2</sup>s (0.58x43,980).

Specified fuse = FNH00-250K-A

For use on a SFW160-3 fuse switch-disconnector, we must check the maximum capacity of the switch with this fuse (see derating in the catalog). That is, the load current must not exceed the current limited by the fuse + switch-disconnector. In this case, the derating = 0.6.

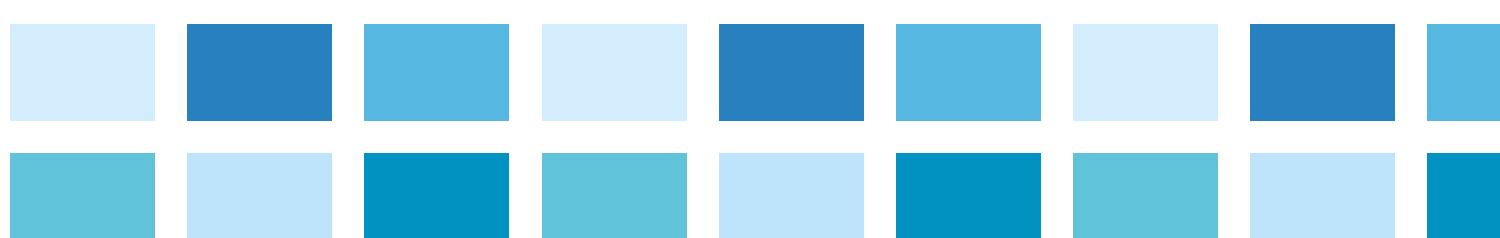
The maximum allowed current in continuous operation is  $250 \times 0.6 = 150$  A. As 150 A is greater than the load current (125 A), there is no limitation for the use of the **SFW160-3 + FNH00-250K-A**.

## Appendix 2: aR Fuses Sizing Tables to Protect SSW Soft-Starters and CFW Inverters

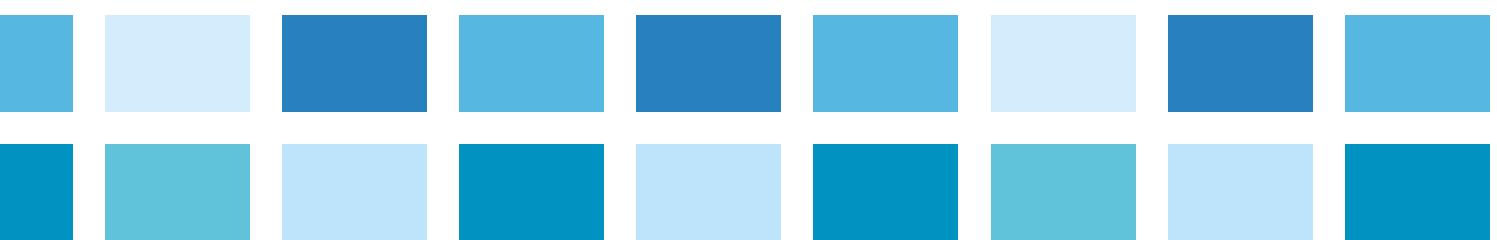
Criteria used to size aR fuses of the tables below:

- Voltage considered to size the  $I^2t$ :
  - The highest line voltage of the switch - SSW or CFW.
- For example: SSW06 from 220 to 690 V ac =  $690/\sqrt{3} = 398$  V ac (phase voltage applied to the fuse).
- Fuse current:
  - See consideration in appendix 1.
- Maximum  $I^2t$  of the fuse =  $0.75 \times I^2t$  indicated in the CFW or SSW manual.

Note: rev. 19



| Model          | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |
|----------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|
| SSW05 Plus (A) | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |
| 3              | 576                                  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
| 10             | 3,200                                | 00   | 35     | 1                    | 10701721 | FNH00-35K-A   | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |
| 16             | 7,280                                | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |
| 23             | 3,200                                | 00   | 63     | 1                    | 10705764 | FNH00-63K-A   | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |
| 30             | 12,960                               | 00   | 80     | 1                    | 10705995 | FNH00-80K-A   | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |
| 45             | 20,736                               | 00   | 125    | 1                    | 10707231 | FNH00-125K-A  | -  | -      | -                    | -        | -             |
|                |                                      | 000  |        |                      | 13737132 | FNH000-125K-A |  |        |                      |          |               |
| 60             | 12,960                               | 00   | 160    |                      | 10701724 | FNH00-160K-A  |  |        |                      |          |               |
| 85             | 20,736                               | 00   | 200    |                      | 10710732 | FNH00-200K-A  |  |        |                      |          |               |



## WEG aR Fuses Recommended for WEG SSW06 Soft-Starters

| Model          | I <sup>t</sup> do SCR | Maximum I <sup>t</sup> of the fuse (0.75% of the SCR) | WEG aR fuses recommended for standard connection |        |                      |          |               |                    |        |                      |          |                  |
|----------------|-----------------------|---|--|--------|----------------------|----------|---------------|--------------------|--------|----------------------|----------|------------------|
|                |                       |   | FNH aR blade contact                             |        |                      |          |               | FNHFE aR flush-end |        |                      |          |                  |
| SSW06 Plus (A) | (kA <sup>2</sup> s)   | (kA <sup>2</sup> s)                                   | Size   | In (A) | Quantity in parallel | SAP code | WEG reference | Size               | In (A) | Quantity in parallel | SAP code | WEG reference    |
| 10             | 0.72                  | 0.54  | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | -                  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A   |
| 16             |                       |   | 000  | 35     |                      | 13737105 | FNH000-35K-A  |                    |        |                      |          |                  |
| 23             |                       | 3.0   | 00   | 40     |                      | 10702117 | FNH00-40K-A   |                    |        |                      |          |                  |
| 30             |                       |   | 000  | 80     |                      | 13737107 | FNH000-40K-A  |                    |        |                      |          |                  |
| 45             | 10                    | 7.5   | 00   | 125    |                      | 10705995 | FNH00-80K-A   |                    |        |                      |          |                  |
| 60             | 15                    |   | 000  | 100    |                      | 13737130 | FNH000-80K-A  |                    |        |                      |          |                  |
| 85             | 80                    | 60  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |                    |        |                      |          |                  |
| 130            | 84                    | 63  | 00   | 160    |                      | 13737131 | FNH000-100K-A |                    |        |                      |          |                  |
| 170            | 245                   | 184   | 000  | 160    |                      | 10707231 | FNH00-125K-A  |                    |        |                      |          |                  |
| 205            | 320                   | 240   | 000  | 160    |                      | 13737132 | FNH000-125K-A |                    |        |                      |          |                  |
| 255            | 4,250                 | 179   | 000  | 160    |                      | 10701724 | FNH00-160K-A  |                    |        |                      |          |                  |
| 312            |                       |   | 000  | 250    |                      | 10711445 | FNH00-250K-A  |                    |        |                      |          |                  |
| 365            |                       |   | 000  | 400    |                      | 10815073 | FNH1-400K-A   |                    |        |                      |          |                  |
| 412            |                       |   | 000  | 630    |                      | 10824110 | FNH2-630K-A   |                    |        |                      |          |                  |
| 480            |                       | 3,188   | 000  | 630    | 2                    | 10824110 | FNH2-630K-A   |                    |        |                      |          |                  |
| 604            |                       |   | 000  | 710    |                      | 11393547 | FNH2-710K-A   |                    |        |                      |          |                  |
| 670            |                       |   | 000  | 800    |                      | 10833726 | FNH3-800K-A   |                    |        |                      |          |                  |
| 820            |                       |   | 000  | 900    |                      | 11393564 | FNH3-900K-A   |                    |        |                      |          |                  |
| 950            | 14,000                | 10,500  | 000  | 1,000  |                      | 11393565 | FNH3-1000K-A  | 23                 | 1,600  | 1                    | 12661689 | FNH23FEA-1600Y-A |
| 1,100          |                       |   | 000  | 710    |                      | 11393547 | FNH2-710K-A   |                    |        |                      |          |                  |
| 1,400          |                       |   | 000  | 900    |                      | 11393564 | FNH3-900K-A   |                    |        |                      |          |                  |

Notes: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

It is also possible to use two flush-end fuses size 3 with the same rated current connected in parallel, so that the sum of their rated currents will be equal to the rated current specified for the flush-end fuse size 23.

## WEG aR Fuses Recommended for WEG SSW07 Soft-Starters

| Model     | Maximum I <sup>t</sup> of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               |      | Recommended WEG aR fuses FNHFE flush-end |                      |          |                |  |
|-----------|------------------------------------|--|--------|----------------------|----------|---------------|------|--|----------------------|----------|----------------|--|
|           |                                    | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size | In (A)                                   | Quantity in parallel | SAP code | WEG reference  |  |
| SSW07 (A) | (A <sup>2</sup> s)                 |  |        |                      |          |               |      |  |                      |          |                |  |
| 17        | 570                                | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | -    | 450                                      | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 24        |                                    |  |        |                      | 13737107 | FNH000-40K-A  |      |  |                      |          |                |  |
| 30        |                                    | 00   | 80     |                      | 10705995 | FNH00-80K-A   |      |  |                      |          |                |  |
| 45        |                                    |  |        |                      | 13737130 | FNH000-80K-A  |      |  |                      |          |                |  |
| 61        |                                    |  |        |                      | 10707110 | FNH00-100K-A  |      |  |                      |          |                |  |
| 85        |                                    |  |        |                      | 13737130 | FNH000-80K-A  |      |  |                      |          |                |  |
| 130       |                                    | 00   | 160    |                      | 10707231 | FNH00-125K-A  |      |  |                      |          |                |  |
| 171       |                                    |  |        |                      | 13737132 | FNH00-125K-A  |      |  |                      |          |                |  |
| 200       |                                    | 00   | 160    |                      | 10701724 | FNH00-160K-A  |      |  |                      |          |                |  |
| 255       |                                    |  |        |                      | 10711445 | FNH00-250K-A  |      |  |                      |          |                |  |
| 312       | 196,000                            | 00   | 250    |                      | 10815073 | FNH1-400K-A   | 3    | 1,600                                    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 365       |                                    |  |        |                      | 10824109 | FNH2-500K-A   |      |  |                      |          |                |  |
| 412       |                                    | 00   | 250    |                      | 10824110 | FNH2-630K-A   |      |  |                      |          |                |  |
| 256,000   |                                    |  |        |                      | 10833056 | FNH3-500K-A   |      |  |                      |          |                |  |
| 26        |                                    |  |        |                      | 10833056 | FNH3-500K-A   |      |  |                      |          |                |  |

Note: Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

| WEG aR fuses recommended for motor inside delta connection |        |                      |          |               |                           |        |                      |          |                  |
|--|--------|----------------------|----------|---------------|---------------------------|--------|----------------------|----------|------------------|
| FNH aR blade contact                                       |        |                      |          |               | FNHFE aR flush-end        |        |                      |          |                  |
| Size   | In (A) | Quantity in parallel | SAP code | WEG reference | Size                      | In (A) | Quantity in parallel | SAP code | WEG reference    |
| Connection not applicable                                  |        |                      |          |               | Connection not applicable |        |                      |          |                  |
| 1  | 200    | 1                    | 10809133 | FNH1-200K-A   | -                         | -      | -                    | -        | -                |
| 2  | 400    |                      | 10824053 | FNH2-400K-A   |                           |        |                      |          |                  |
|  | 500    |                      | 10833056 | FNH3-500K-A   |                           |        |                      |          |                  |
| 3  | 710    |                      | 10833591 | FNH3-710K-A   |                           |        |                      |          |                  |
| 3  | 400    | 2                    | 10831217 | FNH3-400K-A   | 3                         | 550    | 1                    | 12660187 | FNH3FEM-550Y-A   |
| 2  | 315    | 3                    | 10823936 | FNH2-315K-A   |                           |        |                      | 12660583 | FNH3FEM-630Y-A   |
|  | 500    | 2                    | 10833056 | FNH3-500K-A   |                           |        |                      | 12660657 | FNH3FEM-700Y-A   |
| 3  | 710    |                      | 10833591 | FNH3-710K-A   |                           |        |                      | 12661662 | FNH3FEM-900Y-A   |
|  | 1,000  | 3                    | 11393565 | FNH3-1000K-A  |                           | 630    | 1                    | 12661663 | FNH3FEM-1000Y-A  |
| 3  | 800    |                      | 10833726 | FNH3-800K-A   |                           |        |                      | 12661664 | FNH3FEM-1100Y-A  |
|  | 800    |                      | 10833726 | FNH3-800K-A   |                           |        |                      | 12661665 | FNH3FEM-1250Y-A  |
| 3  | 900    |                      | 11393564 | FNH3-900K-A   |                           |        |                      | 12661689 | FNH23FEA-1600Y-A |
|  | 1,000  | 4                    | 11393565 | FNH3-1000K-A  | 23                        | 700    | 1                    | 12661690 | FNH23FEA-1800Y-A |
| 3  | 1,000  |                      | 11393565 | FNH3-1000K-A  |                           |        |                      | 12661664 | FNH3FEM-1100Y-A  |
|  | 1,100  | 3                    |          |               |                           |        |                      | 12661665 | FNH3FEM-1250Y-A  |
|  | 1,250  |                      |          |               |                           |        |                      | 12661666 | FNH3FEM-1400Y-A  |
|  | 1,400  |                      |          |               |                           |        |                      | 12661665 | FNH3FEM-1250Y-A  |
|  | 1,250  |                      |          |               |                           |        |                      | 12661665 | FNH3FEM-1250Y-A  |

### WEG aR Fuses Recommended for WEG SSW08 Soft-Starters

| Model     | Maximum I <sup>2</sup> t of the fuse (A <sup>2</sup> s) | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNH blade contact |        |                      |          |                |  |
|-----------|---|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|----------------|--|
|           |   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference  |  |
| SSW08 (A) | 720   | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | -  | -      | -                    | -        | -              |  |
| 17        |   |  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |                |  |
| 24        |   | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |  |
| 30        |   |  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |                |  |
| 45        |   | 00   | 160    |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |                |  |
| 61        |   | 1  | 200    |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |  |
| 85        |   | 00   | 250    |                      | 10701724 | FNH00-160K-A  |  |        |                      |          |                |  |
| 130       |   | 00   | 400    |                      | 10809133 | FNH1-200K-A   |  |        |                      |          |                |  |
| 171       |   | 2  | 500    |                      | 10711445 | FNH00-250K-A  |  |        |                      |          |                |  |
| 200       |   | 630  | 400    |                      | 10824053 | FNH2-400K-A   | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 255       | 89,000  | 3  | 500    |                      | 10824109 | FNH2-500K-A   |  |        |                      | 12645317 | FNH3FEM-500Y-A |  |
| 312       | 190,000   |  | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      | 12660187 | FNH3FEM-550Y-A |  |
| 365       | 256,000   |  | 500    | 2                    | 10833056 | FNH3-500K-A   |  |        |                      | 12660583 | FNH3FEM-630Y-A |  |
| 412       |   |  |        |                      | 10833591 | FNH3-710K-A   |  |        |                      | 12660657 | FNH3FEM-700Y-A |  |

Note: Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

### Recommended WEG aR Fuses for WEG SSW900 Soft-Starters - Motor Inside Delta Connection

| Model      | I <sup>2</sup> t do SCR | WEG aR fuses recommended for motor inside delta connection |        |                      |          |               |      |                                |                      |          |                 |  |
|------------|-------------------------|--|--------|----------------------|----------|---------------|------|--------------------------------|----------------------|----------|-----------------|--|
|            |                         | FNH aR blade contact                                       |        |                      |          |               |      | FNHFE aR flush-end             |                      |          |                 |  |
|            |                         | The fuse stays OUT of the delta                            |        |                      |          |               |      | The fuse stays IN of the delta |                      |          |                 |  |
| SSW900 (A) | (A <sup>2</sup> s)      | Size   | In (A) | Quantity in parallel | SAP code | WEG reference | Size | In (A)                         | Quantity in parallel | SAP code | WEG reference   |  |
| 10         | 720                     | Connection not applicable                                  |        |                      |          |               |      | Connection not applicable      |                      |          |                 |  |
| 17         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 24         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 30         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 45         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 61         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 85         |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 105        |                         |  |        |                      |          |               |      |                                |                      |          |                 |  |
| 130        | 97,000                  | 3  | 500    | 1                    | 10833056 | FNH3-500K-A   | 3    | 450                            | 1                    | 12644962 | FNH3FEM-450Y-A  |  |
| 171        | 168,000                 | 2  | 710    |                      | 11393547 | FNH2-710K-A   |      | 550                            |                      | 12660187 | FNH3FEM-550Y-A  |  |
| 200        | 245,000                 | 3  | 800    |                      | 10833726 | FNH3-800K-A   |      | 630                            |                      | 12660583 | FNH3FEM-630Y-A  |  |
| 255        | 90,000                  |  | 1,000  |                      | 11393565 | FNH3-1000K-A  |      | 800                            |                      | 12661660 | FNH3FEM-800Y-A  |  |
| 312        | 238,000                 | 2  | 710    | 2                    | 11393547 | FNH2-710K-A   | 3    | 900                            |                      | 12661662 | FNH3FEM-900Y-A  |  |
| 365        |                         | 3  | 800    |                      | 10833726 | FNH3-800K-A   |      | 1,100                          |                      | 12661664 | FNH3FEM-1100Y-A |  |
| 412        |                         |  | 900    |                      | 11393564 | FNH3-900K-A   |      | 1,250                          |                      | 12661665 | FNH3FEM-1250Y-A |  |

Note: Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

### WEG aR Fuses Recommended for WEG SSW900 Soft-Starters - Standard Connection

| Model      | I <sup>2</sup> t do SCR | WEG aR fuses recommended for standard connection |        |                      |          |                |      |                    |                      |          |                |  |
|------------|-------------------------|--|--------|----------------------|----------|----------------|------|--------------------|----------------------|----------|----------------|--|
|            |                         | FNH aR blade contact                             |        |                      |          |                |      | FNHFE aR flush-end |                      |          |                |  |
| SSW900 (A) | (A <sup>2</sup> s)      | Size   | In (A) | Quantity in parallel | SAP code | WEG reference  | Size | In (A)             | Quantity in parallel | SAP code | WEG reference  |  |
| 10         | 720                     | 00   | 40     | 1                    | 10702117 | FNH00-40K-A    | 3    | 450                | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 17         |                         | 000  | 35     |                      | 13737105 | FNH000-35K-A   |      |                    |                      |          |                |  |
| 24         |                         | 00   | 40     |                      | 10702117 | FNH00-40K-A    |      |                    |                      |          |                |  |
| 30         |                         | 000  | 40     |                      | 13737107 | FNH000-40K-A   |      |                    |                      |          |                |  |
| 45         | 8,000                   | 00   | 80     |                      | 10705995 | FNH00-80K-A    |      |                    |                      |          |                |  |
| 61         |                         | 000  | 80     |                      | 13737130 | FNH000-80K-A   |      |                    |                      |          |                |  |
| 85         |                         | 00   | 100    |                      | 10707110 | FNH00-100K-A   |      |                    |                      |          |                |  |
| 105        |                         | 000  | 100    |                      | 13737131 | FNH000-100K-A  |      |                    |                      |          |                |  |
| 130        | 10,500                  | 00   | 125    |                      | 10707231 | FNH00-125K-A   |      |                    |                      |          |                |  |
| 171        |                         | 000  | 125    |                      | 13737132 | FNH000-125K-A  |      |                    |                      |          |                |  |
| 200        |                         | 00   | 160    |                      | 1070724  | FNH00-160K-A   |      |                    |                      |          |                |  |
| 255        |                         | 00   | 250    |                      | 10711445 | FNH00-250K-A   |      |                    |                      |          |                |  |
| 312        | 238,000                 | 315  | 350    |                      | 10809575 | FNH1-315K-A    |      | 450                | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 365        |                         | 400  | 400    |                      | 10815073 | FNH1-400K-A    |      |                    |                      |          |                |  |
| 412        |                         | 500  | 500    |                      | 10824109 | FNH2-500K-A    |      |                    |                      |          |                |  |
| 130        |                         | 630  | 630    |                      | 10824110 | FNH2-630K-A    |      |                    |                      |          |                |  |
| 171        | 245,000                 | 500  | 500    |                      | 10833056 | FNH3-500K-A    |      | 500                | 1                    | 12645317 | FNH3FEM-500Y-A |  |
| 200        |                         | 630  | 630    |                      | 10833726 | FNH3-800K-A    |      |                    |                      |          |                |  |
| 255        |                         | 500  | 500    |                      | 11393564 | FNH3-900K-A    |      |                    |                      |          |                |  |
| 312        |                         | 800  | 800    |                      | 12660583 | FNH3FEM-630Y-A |      |                    |                      |          |                |  |
| 365        | 320,000                 | 900  | 900    |                      | 12660657 | FNH3FEM-700Y-A |      |                    |                      |          |                |  |

## WEG aR fuses recommended for motor inside delta connection

The fuse stays INSIDE the delta

| FNH aR blade contact      |        |                      |          |               |      | FNHFF aR flush-end        |                      |          |                |  |
|---------------------------|--------|----------------------|----------|---------------|------|---------------------------|----------------------|----------|----------------|--|
| Size                      | In (A) | Quantity in parallel | SAP code | WEG reference | Size | In (A)                    | Quantity in parallel | SAP code | WEG reference  |  |
| Connection not applicable |        |                      |          |               |      | Connection not applicable |                      |          |                |  |
|                           |        |                      |          |               |      |                           |                      |          |                |  |
| 1                         | 400    | 1                    | 10815073 | FNH1-400K-A   | 3    | 450                       | 1                    | 12644962 | FNH3FEM-450Y-A |  |
| 2                         | 500    |                      | 10824109 | FNH2-500K-A   |      |                           |                      |          |                |  |
|                           | 630    |                      | 10824110 | FNH2-630K-A   |      |                           |                      |          |                |  |
| 3                         | 500    |                      | 10833056 | FNH3-500K-A   |      |                           |                      | 12660187 | FNH3FEM-550Y-A |  |
|                           | 800    |                      | 10833726 | FNH3-800K-A   |      |                           |                      |          |                |  |
|                           | 900    |                      | 11393564 | FNH3-900K-A   |      |                           |                      | 12660583 | FNH3FEM-630Y-A |  |
|                           |        |                      |          |               |      |                           |                      |          |                |  |

## WEG aR Fuses Recommended for WEG CFW08 Inverter

| CFW08               |  |  | Recommended WEG aR fuses FNH blade contact |        |                      |          |               |  |
|---------------------|--|--|--|--------|----------------------|----------|---------------|--|
| Model               | Voltage (V ac)                             | Maximum I <sup>2</sup> t of the fuse at 25 °C (A <sup>2</sup> s) | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference |  |
| CFW080016S2024      | 200-240<br>single-phase                    | 125  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   |  |
| CFW080026S2024      |  |  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |
| CFW080040S2024      |  |  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080016B2024      |  |  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |
| CFW080026B2024      |  |  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080040B2024      |  |  | 000  |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080073B2024      |  |  | 00   | 35     |                      | 10687494 | FNH00-20K-A   |  |
| CFW080100B2024      |  |  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |
| CFW080070T2024      | 200-240<br>single-phase and<br>three-phase | 260  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080160T2024      |  |  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |
| CFW080017T2024P0H3Z |  |  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   |  |
| CFW080220T2024      |  |  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |
| CFW080280T2024      |  |  | 00   |        |                      | 10702117 | FNH00-40K-A   |  |
| CFW080330T2024      |  | 340  | 000  | 40     | 63                   | 13737105 | FNH00-40K-A   |  |
|                     |  |  | 00   |        |                      | 10702117 | FNH00-40K-A   |  |
|                     |  |  | 000  |        |                      | 13737107 | FNH00-40K-A   |  |
|                     |  |  | 1  |        |                      | 10806688 | FNH1-63K-A    |  |
|                     |  |  | 1  | 100    |                      | 10807553 | FNH1-100K-A   |  |

## WEG aR Fuses Recommended for WEG CFW08 Inverter

| CFW08           |                        |  | Recommended WEG aR fuses FNH blade contact |        |                      |          |               |  |
|-----------------|------------------------|--|--|--------|----------------------|----------|---------------|--|
| Model           | Voltage (V ac)         | Maximum I <sup>t</sup> of the fuse at 25 °C (A <sup>2</sup> s) | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference |  |
| CFW080010T3848  | 380-480<br>three-phase | 125  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   |  |
| CFW080016T3848  |                        |  | 000  |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080026T3848  |                        |  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080040T3848  |                        |  | 000  |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080027T3848  |                        |  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080043T3848  |                        |  | 000  |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080065T3848  |                        |  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW0800100T3848 |                        |  | 000  |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080130T3848  |                        |  | 00   |        |                      | 10701722 | FNH00-25K-A   |  |
| CFW080160T3848  |                        |  | 000  |        |                      | 13735656 | FNH00-25K-A   |  |
| CFW080240T3848  |                        |  | 00   |        |                      | 10701721 | FNH00-35K-A   |  |
| CFW080300T3848  |                        |  | 000  |        |                      | 13737105 | FNH00-35K-A   |  |
| CFW080017T5060  | 575<br>three-phase     | 340  | 1  | 20     | 1                    | 10687494 | FNH00-35K-A   |  |
| CFW080030T5060  |                        |  | 00   |        |                      | 10687494 | FNH00-40K-A   |  |
| CFW080043T5060  |                        |  | 000  |        |                      | 13737107 | FNH00-40K-A   |  |
| CFW080070T5060  |                        |  | 00   |        |                      | 10701718 | FNH00-50K-A   |  |
| CFW080100T5060  |                        |  | 000  |        |                      | 13737128 | FNH00-50K-A   |  |
| CFW080120T5060  |                        |  | 00   |        |                      | 10807549 | FNH1-80K-A    |  |
| CFW080017T5060  |                        |  | 000  |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080030T5060  |                        |  | 00   |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080043T5060  |                        |  | 000  |        |                      | 10687494 | FNH00-20K-A   |  |
| CFW080070T5060  |                        |  | 00   |        |                      | 13735555 | FNH00-20K-A   |  |
| CFW080100T5060  |                        |  | 000  |        |                      | 10701722 | FNH00-25K-A   |  |
| CFW080120T5060  |                        |  | 000  |        |                      | 13735656 | FNH00-25K-A   |  |
| CFW080172T5060  |                        |  | 000  |        |                      | 10701721 | FNH00-35K-A   |  |
| CFW080300T5060  |                        |  | 000  |        |                      | 13737105 | FNH00-35K-A   |  |

## WEG aR Fuses Recommended for WEG CFW09 Inverter

| Inverter rated current<br>CFW09 A/V |             | Maximum I <sup>t</sup> of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |
|-------------------------------------|-------------|------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|
| CT                                  | VT          | (A <sup>2</sup> s)                 | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |
| 2.9/500-600                         | 4.2/500-600 | 450                                | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -      | -                    | -        | -             |
|                                     |             |                                    | 000  |        |                      | 13735555 | FNH00-20K-A   |  |        |                      |          |               |
| 3.6/380-480                         | -           |                                    | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
| 4.0/380-480                         | -           |                                    | 00   |        |                      | 13735555 | FNH00-20K-A   |  |        |                      |          |               |
| 4.2/500-600                         | 7.0/500-600 |                                    | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|                                     |             |                                    | 000  |        |                      | 13735555 | FNH00-20K-A   |  |        |                      |          |               |
| 5.5/380-480                         | -           |                                    | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|                                     |             |                                    | 25   |        |                      | 13735555 | FNH00-20K-A   |  |        |                      |          |               |
| 6.0/220-230                         | -           |                                    | 000  |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
| 7.0/220-230                         | -           |                                    | 00   |        |                      | 13735555 | FNH00-20K-A   |  |        |                      |          |               |
| 7.0/500-600                         | 10/500-600  |                                    | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
| 9.0/380-480                         | -           |                                    | 00   |        |                      | 13735656 | FNH00-25K-A   |  |        |                      |          |               |
| 10/220-230                          | -           | 450                                | 00   | 25     | 1                    | 10701721 | FNH00-35K-A   | -  | -      | -                    | -        | -             |
| 10/500-600                          | 12/500-600  |                                    | 000  |        |                      | 13735656 | FNH00-25K-A   |  |        |                      |          |               |
| 12/500-600                          | 14/500-600  |                                    | 00   |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |
| 13/220-230                          | -           |                                    | 000  |        |                      | 13737105 | FNH00-35K-A   |  |        |                      |          |               |
| 13/380-480                          | -           |                                    | 00   |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |
| 14/500-600                          | -           |                                    | 000  |        |                      | 13737105 | FNH00-35K-A   |  |        |                      |          |               |
| 16/220-230                          | -           |                                    | 00   |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |
| 16/380-480                          | -           |                                    | 000  |        |                      | 13737107 | FNH00-40K-A   |  |        |                      |          |               |

**WEG aR Fuses Recommended for WEG CFW09 Inverter**

| Inverter rated current<br>CFW09 A/V |             | Maximum I <sup>2</sup> t<br>of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |                |
|-------------------------------------|-------------|---|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|----------------|
| CT                                  | VT          | (A <sup>2</sup> s)                      | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference  |
| 22/500-600                          | 27/500-600  | 7,200                                   | 00   | 50     |                      | 10701718 | FNH00-50K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |                |
| 24/220-230                          | -           | 500                                     | 00   | 40     |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |                |
| 24/380-480                          | -           | 1,250                                   | 00   | 50     |                      | 10701718 | FNH00-50K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |                |
| 27/500-600                          | 32/500-600  | 7,200                                   | 00   | 63     |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |                |
| 28/220-230                          | -           | 1,250                                   | 00   | 63     |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |                |
| 30/380-480                          | 36/380-480  | 2,100                                   | 00   | 63     |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |                |
| 32/500-600                          | -           | 7,200                                   | 00   | 63     |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |                |
| 38/380-480                          | 45/380-480  | 7,200                                   | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |
| 44/500-600                          | 53/500-600  | 14,400                                  | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |
| 45/220-230                          | -           | 2,450                                   | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |
| 45/380-480                          | 54/380-480  | 7,200                                   | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |
| 53/500-600                          | 63/500-600  | 14,400                                  | 00   | 100    |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 13737132 | FNH000-125K-A |  |        |                      |          |                |
| 54/220-230                          | 68/220-230  | 7,200                                   | 00   | 100    |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |                |
| 60/380-480                          | 70/380-480  | 14,400                                  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |                |
| 63/500-600                          | 79/500-600  | 21,600                                  | 00   | 160    |                      | 10707124 | FNH00-160K-A  |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10707124 | FNH00-160K-A  |  |        |                      |          |                |
| 70/220-230                          | 86/220-230  | 21,600                                  | 00   | 200    |                      | 10710732 | FNH00-200K-A  | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|                                     |             |   | 000  |        |                      | 10710732 | FNH00-200K-A  |  |        |                      |          |                |
| 70/380-480                          | 86/380-480  | 21,600                                  | 00   | 250    |                      | 10711445 | FNH00-250K-A  | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|                                     |             |   | 000  |        |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |                |
| 100/660-690                         | 127/660-690 | 320,000                                 | 00   | 315    |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10814896 | FNH1-350K-A   |  |        |                      |          |                |
| 105/220-230                         | 130/220-230 | 21,600                                  | 00   | 350    |                      | 10814896 | FNH1-350K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10815073 | FNH1-400K-A   |  |        |                      |          |                |
| 105/380-480                         | 130/380-480 | 21,600                                  | 00   | 400    |                      | 10815073 | FNH1-400K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824055 | FNH2-450K-A   |  |        |                      |          |                |
| 107/500-690                         | 147/500-690 | 320,000                                 | 00   | 450    |                      | 10824055 | FNH2-450K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824109 | FNH2-500K-A   |  |        |                      |          |                |
| 127/660-690                         | 179/660-690 | 320,000                                 | 00   | 500    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 130/220-230                         | 150/220-230 | 21,600                                  | 00   | 500    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 142/380-480                         | 174/380-480 | 21,600                                  | 00   | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 147/500-690                         | 196/500-690 | 320,000                                 | 00   | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 179/660-690                         | 179/660-690 | 320,000                                 | 00   | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 180/380-480                         | -           | -                                       | 00   | 400    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 211/380-480                         | -           | -                                       | 00   | 450    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 211/500-690                         | -           | -                                       | 00   | 500    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 225/660-690                         | 259/660-690 | 320,000                                 | 00   | 630    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 240/380-480                         | -           | -                                       | 00   | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
|                                     |             |   | 000  |        |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |
| 247/500-690                         | 315/500-690 | 414,000                                 | 00   | 710    |                      | 10824110 | FNH2-630K-A   |  |        |                      |          |                |

**WEG aR Fuses Recommended for WEG CFW11 Inverter**

| CFW11           |       |              |                       |                             | Maximum I <sup>2</sup> t of the fuse |  |
|-----------------|-------|--------------|-----------------------|-----------------------------|--------------------------------------|--|
| Model           | Frame | Braking IGBT | Supply voltage (V ac) |                             | (A <sup>2</sup> s)                   |  |
| CFW110010S2SZ   | A     | Built-in     | 220                   | Single-phase                | 1,000                                |  |
| CFW110006B2SZ   |       |              |                       | Single-phase or three-phase | 420                                  |  |
| CFW110007B2SZ   |       |              |                       |                             |                                      |  |
| CFW110007T2SZ   |       |              |                       |                             |                                      |  |
| CFW110010T2SZ   |       |              |                       |                             |                                      |  |
| CFW110013T2SZ   |       |              |                       |                             |                                      |  |
| CFW110016T2SZ   |       |              |                       |                             |                                      |  |
| CFW110024T2SZ   |       |              |                       |                             |                                      |  |
| CFW110028T2SZ   |       |              |                       |                             |                                      |  |
| CFW110033T2SZ   |       |              |                       |                             |                                      |  |
| CFW110045T2SZ   | C     | Not built-in | 380                   | Three-phase                 | 2,750                                |  |
| CFW110054T2SZ   |       |              |                       |                             | 3,150                                |  |
| CFW110070T2SZ   |       |              |                       |                             | 39,200                               |  |
| CFW110086T2SZ   |       |              |                       |                             | 218,000                              |  |
| CFW110105T2SZ   |       |              |                       |                             | 39,200                               |  |
| CFW110142T2SZ   | E     | Built-in     | 220                   |                             | 218,000                              |  |
| CFW110180T2SZ   |       |              |                       |                             | 190                                  |  |
| CFW110211T2SZ   |       |              |                       |                             | 495                                  |  |
| CFW110142T20DBZ |       |              |                       |                             | 500                                  |  |
| CFW110180T20DBZ |       |              |                       |                             | 1,250                                |  |
| CFW110211T20DBZ | A     | Built-in     | 380                   | Three-phase                 | 2,100                                |  |
| CFW110003T4SZ   |       |              |                       |                             | 3,150                                |  |
| CFW110005T4SZ   |       |              |                       |                             |                                      |  |
| CFW110007T4SZ   |       |              |                       |                             |                                      |  |
| CFW110010T4SZ   |       |              |                       |                             |                                      |  |
| CFW110013T4SZ   |       |              |                       |                             |                                      |  |
| CFW110017T4SZ   |       |              |                       |                             |                                      |  |
| CFW110024T4SZ   |       |              |                       |                             |                                      |  |
| CFW110031T4SZ   |       |              |                       |                             |                                      |  |
| CFW110038T4SZ   |       |              |                       |                             |                                      |  |
| CFW110045T4SZ   | C     | Not built-in | 220                   | Three-phase                 |                                      |  |
| CFW110058T4SZ   |       |              |                       |                             |                                      |  |
| CFW110070T4SZ   |       |              |                       |                             |                                      |  |
| CFW110088T4SZ   |       |              |                       |                             |                                      |  |

Notes: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.  
 Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

| Recommended WEG aR fuses FNH blade contact |      |        |                      |               |               | Recommended WEG aR fuses FNHFE flush-end |      |        |                      |          |                |
|--|------|--------|----------------------|---------------|---------------|--|------|--------|----------------------|----------|----------------|
|  | Size | In (A) | Quantity in parallel | SAP code      | WEG reference |  | Size | In (A) | Quantity in parallel | SAP code | WEG reference  |
| 00   | 20   | 1      | 20                   | 10687494      | FNH00-20K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   | 25   | 1      | 25                   | 10701722      | FNH00-25K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13735656      | FNH000-25K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10701721      | FNH00-35K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737105      | FNH000-35K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10702117      | FNH00-40K-A   |  |      |        |                      |          |                |
| 000  | 35   | 1      | 35                   | 13737107      | FNH000-40K-A  | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 00   |      |        |                      | 10701718      | FNH00-50K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737128      | FNH000-50K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10705764      | FNH00-63K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737129      | FNH000-63K-A  |  |      |        |                      |          |                |
| 00   | 40   | 1      | 40                   | 10705995      | FNH00-80K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13737130      | FNH000-80K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10705995      | FNH00-80K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737131      | FNH000-100K-A |  |      |        |                      |          |                |
| 00   |      |        |                      | 10707110      | FNH00-100K-A  |  |      |        |                      |          |                |
| 000  | 100  | 1      | 13737131             | FNH000-100K-A |               |  |      |        |                      |          |                |
| 00   | 50   | 1      | 125                  | 10707231      | FNH00-125K-A  | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 10711445      | FNH00-250K-A  |  |      |        |                      |          |                |
| 00   | 63   | 1      | 350                  | 10814896      | FNH1-350K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 10815073      | FNH1-400K-A   |  |      |        |                      |          |                |
| 00   | 250  | 1      | 250                  | 10711445      | FNH00-250K-A  |  |      |        |                      |          |                |
| 00   | 80   | 1      | 400                  | 10814896      | FNH1-350K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 10815073      | FNH1-400K-A   |  |      |        |                      |          |                |
| 00   | 20   | 1      | 20                   | 10687494      | FNH00-20K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10687494      | FNH00-20K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735555      | FNH000-20K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10701722      | FNH00-25K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13735656      | FNH000-25K-A  |  |      |        |                      |          |                |
| 00   | 35   | 1      | 35                   | 10701721      | FNH00-35K-A   | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13737105      | FNH000-35K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10702117      | FNH00-40K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737107      | FNH000-40K-A  |  |      |        |                      |          |                |
| 00   |      |        |                      | 10701718      | FNH00-50K-A   |  |      |        |                      |          |                |
| 000  | 40   | 1      | 40                   | 13737128      | FNH000-50K-A  | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 10705764      | FNH00-63K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737129      | FNH000-63K-A  |  |      |        |                      |          |                |
| 000  |      |        |                      | 10705995      | FNH00-80K-A   |  |      |        |                      |          |                |
| 000  |      |        |                      | 13737130      | FNH000-80K-A  |  |      |        |                      |          |                |
| 00   | 50   | 1      | 50                   | 10707110      | FNH00-100K-A  | 1  | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 000  |      |        |                      | 13737130      | FNH000-80K-A  |  |      |        |                      |          |                |
| 000  |      |        |                      | 10707110      | FNH00-100K-A  |  |      |        |                      |          |                |
| 000  |      |        |                      | 10707121      | FNH00-125K-A  |  |      |        |                      |          |                |
| 000  |      |        |                      | 10707231      | FNH00-125K-A  |  |      |        |                      |          |                |

**WEG aR Fuses Recommended for WEG CFW11 Inverter**

| CFW11           |       |                                |                       | Maximum I <sup>2</sup> t of the fuse |  |
|-----------------|-------|--------------------------------|-----------------------|--------------------------------------|--|
| Model           | Frame | Braking IGBT                   | Supply voltage (V ac) | (A <sup>2</sup> s)                   |  |
| CFW110105T4SZ   | E     | Not built-in                   | 380                   | 39,200                               |  |
| CFW110142T4SZ   |       |                                |                       | 218,000                              |  |
| CFW110180T4SZ   |       | Built-in                       |                       | 39,200                               |  |
| CFW110211T4SZ   |       |                                |                       | 218,000                              |  |
| CFW110105T40DBZ |       | External accessory (use DBW03) |                       | 320,000                              |  |
| CFW110142T40DBZ |       |                                |                       | 414,000                              |  |
| CFW110180T40DBZ |       |                                |                       | 1,051,000                            |  |
| CFW110211T40DBZ |       |                                |                       | 1,445,000                            |  |
| CFW110242T4SZ   | F     | External accessory (use DBW03) | Three-phase           | 1,051,000                            |  |
| CFW110312T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110370T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110477T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110515T4SZ   | G     | External accessory (use DBW04) |                       | 1,445,000                            |  |
| CFW110601T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110720T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110795T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110877T4SZ   | H     | External accessory (use DBW04) |                       | 1,445,000                            |  |
| CFW111062T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW111141T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110003T4SZ   | A     | Built-in                       | 440                   | 495                                  |  |
| CFW110005T4SZ   |       |                                |                       | 500                                  |  |
| CFW110007T4SZ   |       |                                |                       | 1,250                                |  |
| CFW110010T4SZ   |       |                                |                       | 2,100                                |  |
| CFW110013T4SZ   |       |                                |                       | 3,150                                |  |
| CFW110017T4SZ   | B     | Built-in                       |                       | 39,200                               |  |
| CFW110024T4SZ   |       |                                |                       | 218,000                              |  |
| CFW110031T4SZ   |       |                                |                       | 39,200                               |  |
| CFW110038T4SZ   |       |                                |                       | 320,000                              |  |
| CFW110045T4SZ   | C     | Not built-in                   |                       | 414,000                              |  |
| CFW110058T4SZ   |       |                                |                       | 1,051,000                            |  |
| CFW110070T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110088T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110105T4SZ   | D     | Not built-in                   |                       | 39,200                               |  |
| CFW110142T4SZ   |       |                                |                       | 218,000                              |  |
| CFW110180T4SZ   |       |                                |                       | 39,200                               |  |
| CFW110211T4SZ   |       |                                |                       | 320,000                              |  |
| CFW1105T40DBZ   | E     | Built-in                       |                       | 414,000                              |  |
| CFW110142T40DBZ |       |                                |                       | 1,051,000                            |  |
| CFW110180T40DBZ |       |                                |                       | 1,445,000                            |  |
| CFW110211T40DBZ |       |                                |                       | 1,445,000                            |  |
| CFW110242T4SZ   | F     | External accessory (use DBW03) |                       | 39,200                               |  |
| CFW110312T4SZ   |       |                                |                       | 218,000                              |  |
| CFW110370T4SZ   |       |                                |                       | 320,000                              |  |
| CFW110477T4SZ   |       |                                |                       | 414,000                              |  |
| CFW110515T4SZ   | G     | External accessory (use DBW03) |                       | 1,051,000                            |  |
| CFW110601T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110720T4SZ   |       |                                |                       | 1,445,000                            |  |
| CFW110760T4SZ   |       |                                |                       | 1,445,000                            |  |

Notes: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.  
 Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          | Recommended WEG aR fuses FNHFE flush-end |      |        |                      |          |                |  |
|--|------|--------|----------------------|----------|--|------|--------|----------------------|----------|----------------|--|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference                            | Size | In (A) | Quantity in parallel | SAP code | WEG reference  |  |
| 1  | 00   | 160    | 1                    | 10701724 | FNH00-160K-A                             | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
|  |      | 250    |                      | 10711445 | FNH00-250K-A                             |      |        |                      |          |                |  |
|  | 1    | 350    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |  |
|  |      | 400    |                      | 10815073 | FNH1-400K-A                              |      |        |                      |          |                |  |
|  | 00   | 160    |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  |      | 250    |                      | 10711445 | FNH00-250K-A                             |      |        |                      |          |                |  |
|  | 1    | 350    |                      | 10814896 | FNH1-350K-A                              |      | 450    |                      | 12644962 | FNH3FEM-450Y-A |  |
|  |      | 400    |                      | 10815073 | FNH1-400K-A                              |      |        |                      |          |                |  |
|  | 2    | 450    |                      | 10824055 | FNH2-450K-A                              |      |        |                      |          |                |  |
|  |      | 630    |                      | 10824110 | FNH2-630K-A                              |      |        |                      |          |                |  |
|  |      | 710    |                      | 11393547 | FNH2-710K-A                              |      | 500    |                      | 12645317 | FNH3FEM-500Y-A |  |
|  |      | 900    |                      | 11393564 | FNH3-900K-A                              |      |        |                      |          |                |  |
|  | 3    | 1,000  |                      | 11393565 | FNH3-1000K-A                             |      | 630    |                      | 12660583 | FNH3FEM-630Y-A |  |
|  |      | 630    | 2                    | 10824110 | FNH2-630K-A                              |      |        |                      |          |                |  |
|  |      | 710    |                      | 11393547 | FNH2-710K-A                              |      |        |                      |          |                |  |
|  | 3    | 800    | 2                    | 10833726 | FNH3-800K-A                              |      | 700    |                      | 12660657 | FNH3FEM-700Y-A |  |
|  | 3    | 900    |                      | 11393564 | FNH3-900K-A                              |      |        |                      |          |                |  |
|  |      | 800    | 1                    | 10687494 | FNH00-20K-A                              | 3    | 800    | 1,000                | 12661660 | FNH3FEM-800Y-A |  |
|  |      | 900    |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10701722 | FNH00-25K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10701721 | FNH00-35K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13737105 | FNH000-35K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10702117 | FNH00-40K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10701718 | FNH00-50K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13737128 | FNH000-50K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |  |
|  |      | 00     |                      | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |  |
|  |      | 00     |                      | 10707231 | FNH00-125K-A                             |      |        |                      |          |                |  |
|  | 00   | 125    |                      | 10707231 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  |      | 160    |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  |      | 250    |                      | 10711445 | FNH00-250K-A                             |      |        |                      |          |                |  |
|  | 1    | 350    | 2                    | 10814896 | FNH1-350K-A                              | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
|  |      | 400    |                      | 10815073 | FNH1-400K-A                              |      |        |                      |          |                |  |
|  | 00   | 160    |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  |      | 250    |                      | 10711445 | FNH00-250K-A                             |      |        |                      |          |                |  |
|  | 1    | 350    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |  |
|  |      | 400    |                      | 10815073 | FNH1-400K-A                              |      |        |                      |          |                |  |
|  | 2    | 450    |                      | 10824055 | FNH2-450K-A                              |      | 450    |                      | 12644962 | FNH3FEM-450Y-A |  |
|  |      | 630    |                      | 10824110 | FNH2-630K-A                              |      |        |                      |          |                |  |
|  | 2    | 710    |                      | 11393547 | FNH2-710K-A                              |      | 500    |                      | 12645317 | FNH3FEM-500Y-A |  |
|  |      | 900    |                      | 11393564 | FNH3-900K-A                              |      |        |                      |          |                |  |
|  | 3    | 1,000  |                      | 11393565 | FNH3-1000K-A                             |      | 630    |                      | 12660583 | FNH3FEM-630Y-A |  |
|  |      | 630    |                      | 10824110 | FNH2-630K-A                              |      |        |                      |          |                |  |
|  | 2    | 710    |                      | 11393547 | FNH2-710K-A                              |      |        |                      |          |                |  |
|  |      | 1,000  |                      | 11393547 | FNH2-710K-A                              |      |        |                      |          |                |  |

**WEG aR Fuses Recommended for WEG CFW11 Inverter**

| CFW11            |       |                                |                       |             | Maximum I <sup>2</sup> t of the fuse |
|------------------|-------|--------------------------------|-----------------------|-------------|--------------------------------------|
| Model            | Frame | Braking IGBT                   | Supply voltage (V ac) |             | (A <sup>2</sup> s)                   |
| CFW110795T4SZ    | H     | External accessory (use DBW04) | 440                   |             | 1,051,000                            |
| CFW110877T4SZ    |       |                                |                       |             | 1,445,000                            |
| CFW1101062T4SZ   |       |                                |                       |             |                                      |
| CFW1101141T4SZ   |       |                                |                       |             |                                      |
| CFW110002T50NFYZ | B     | Built-in                       |                       | Three-phase | 1,250                                |
| CFW110004T50NFYZ |       |                                |                       |             |                                      |
| CFW110007T50NFYZ |       |                                |                       |             |                                      |
| CFW110010T50NFYZ |       |                                |                       |             |                                      |
| CFW110012T50NFYZ |       |                                |                       |             |                                      |
| CFW110017T50NFYZ |       |                                |                       |             |                                      |
| CFW110022T5      | C     | -                              |                       | Three-phase | 7,200                                |
| CFW110027T5      |       |                                |                       |             |                                      |
| CFW110032T5      |       |                                |                       |             |                                      |
| CFW110044T5      |       |                                |                       |             |                                      |
| CFW110022T50NFYZ | D     | Built-in                       | 600                   | Three-phase | 39,200                               |
| CFW110027T50NFYZ |       |                                |                       |             |                                      |
| CFW110032T50NFYZ |       |                                |                       |             |                                      |
| CFW110044T50NFYZ |       |                                |                       |             |                                      |
| CFW110053T60YZ   | E     | Not built-in                   |                       | Three-phase | 218,000                              |
| CFW110063T60YZ   |       |                                |                       |             |                                      |
| CFW110080T60YZ   |       |                                |                       |             |                                      |
| CFW110107T60YZ   |       |                                |                       |             |                                      |
| CFW110125T60YZ   |       |                                |                       |             |                                      |
| CFW110150T60YZ   |       |                                |                       |             |                                      |
| CFW110053T60YZ   |       |                                |                       |             |                                      |
| CFW110063T60DBYZ | F     | Built-in                       |                       | Three-phase | 39,200                               |
| CFW110080T60DBYZ |       |                                |                       |             |                                      |
| CFW110107T60DBYZ |       |                                |                       |             |                                      |
| CFW110125T60DBYZ |       |                                |                       |             |                                      |
| CFW110150T60DBYZ |       |                                |                       |             |                                      |
| CFW110170T60YZ   | G     | External accessory (use DBW03) |                       | Three-phase | 218,000                              |
| CFW110216T60YZ   |       |                                |                       |             |                                      |
| CFW110289T60YZ   |       |                                |                       |             |                                      |
| CFW110315T60YZ   |       |                                |                       |             |                                      |
| CFW110365T60YZ   | H     | External accessory (use DBW04) |                       | Three-phase | 320,000                              |
| CFW110435T60YZ   |       |                                |                       |             |                                      |
| CFW110584T60YZ   |       |                                |                       |             |                                      |
| CFW110625T60YZ   |       |                                |                       |             |                                      |
| CFW110758T60YZ   |       |                                |                       |             | 414,000                              |
| CFW110804T60YZ   |       |                                |                       |             | 1,051,000                            |
|                  |       |                                |                       |             | 1,445,000                            |
|                  |       |                                |                       |             | 1,620,000                            |

Notes: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.  
 Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |                 |  |
|--|------|--------|----------------------|----------|---------------|--|--------|----------------------|----------|-----------------|--|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference   |  |
|  | 3    | 800    | 2                    | 10833726 | FNH3-800K-A   | 3  | 1,000  | 1                    | 12661663 | FNH3FEM-1000Y-A |  |
|  | 3    | 900    | 2                    | 11393564 | FNH3-900K-A   |  | 1,250  |                      | 12661665 | FNH3FEM-1250Y-A |  |
|  | 00   | 20     | 20                   | 10687494 | FNH00-20K-A   |  | 1,400  |                      | 12661666 | FNH3FEM-1400Y-A |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 25     | 25                   | 10701722 | FNH00-25K-A   | 1  | -      | -                    | -        | -               |  |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10701721 | FNH00-35K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737105 | FNH000-35K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10702117 | FNH00-40K-A   |  | -      |                      | -        | -               |  |
|  | 000  | 40     | 40                   | 13737107 | FNH000-40K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10701718 | FNH00-50K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10705764 | FNH00-63K-A   |  | -      |                      | -        | -               |  |
|  | 000  | 63     | 63                   | 13737129 | FNH000-63K-A  | 1  | -      | -                    | -        | -               |  |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10702117 | FNH00-40K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 80     | 80                   | 10701718 | FNH00-50K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10705764 | FNH00-63K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737129 | FNH000-63K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 40     | 40                   | 10705995 | FNH00-80K-A   | 1  | -      | -                    | -        | -               |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10702117 | FNH00-40K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10701718 | FNH00-50K-A   |  | -      |                      | -        | -               |  |
|  | 000  | 50     | 50                   | 13737128 | FNH000-50K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10705764 | FNH00-63K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737129 | FNH000-63K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  | -      |                      | -        | -               |  |
|  | 000  | 63     | 63                   | 13737130 | FNH000-80K-A  | 1  | -      | -                    | -        | -               |  |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737129 | FNH000-80K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 80     | 80                   | 10705995 | FNH00-80K-A   | 1  | -      | -                    | -        | -               |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10707110 | FNH00-100K-A  |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  | -      |                      | -        | -               |  |
|  | 00   | 100    | 100                  | 10707231 | FNH00-125K-A  | 1  | -      | -                    | -        | -               |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10707231 | FNH00-125K-A  |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 10701724 | FNH00-160K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 125    | 125                  | 10710732 | FNH00-200K-A  | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A  |  |
|  | 00   |        |                      | 10711445 | FNH00-250K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 100    | 100                  | 10705995 | FNH00-80K-A   | 1  | -      | -                    | -        | -               |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10707110 | FNH00-100K-A  |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10707231 | FNH00-125K-A  |  | -      |                      | -        | -               |  |
|  | 000  | 125    | 125                  | 13737132 | FNH000-125K-A | 1  | -      | -                    | -        | -               |  |
|  | 00   |        |                      | 10701724 | FNH00-160K-A  |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 10710732 | FNH00-200K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10711445 | FNH00-250K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 350    | 350                  | 10705995 | FNH00-80K-A   | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A  |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10707110 | FNH00-100K-A  |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  | -      |                      | -        | -               |  |
|  | 1    | 400    | 400                  | 10707231 | FNH00-125K-A  | 1  | -      | -                    | -        | -               |  |
|  | 00   |        |                      | 13737132 | FNH000-125K-A |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 10701724 | FNH00-160K-A  |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10710732 | FNH00-200K-A  |  | -      |                      | -        | -               |  |
|  | 00   | 630    | 630                  | 10711445 | FNH00-250K-A  | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A  |  |
|  | 000  |        |                      | 10814896 | FNH1-350K-A   |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10815073 | FNH1-400K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 10824110 | FNH2-630K-A   |  | -      |                      | -        | -               |  |
|  | 2    | 630    | 630                  | 11393547 | FNH2-710K-A   | 1  | 500    | 1                    | 12645317 | FNH3FEM-500Y-A  |  |
|  | 00   |        |                      | 10833726 | FNH3-800K-A   |  | -      |                      | -        | -               |  |
|  | 000  |        |                      | 10824110 | FNH2-630K-A   |  | 630    |                      | 12660583 | FNH3FEM-630Y-A  |  |
|  | 00   |        |                      | 11393547 | FNH2-710K-A   |  | 800    |                      | 12661660 | FNH3FEM-800Y-A  |  |
|  | 3    | 710    | 710                  | 10833726 | FNH3-800K-A   | 1  | 900    | 1                    | 12661662 | FNH3FEM-900Y-A  |  |
|  | 00   |        |                      | 10824110 | FNH2-630K-A   |  | 1,000  |                      | 12661663 | FNH3FEM-1000Y-A |  |
|  | 000  |        |                      | 11393547 | FNH2-710K-A   |  | -      |                      | -        | -               |  |
|  | 00   |        |                      | 10833726 | FNH3-800K-A   |  | -      |                      | -        | -               |  |

### WEG aR Fuses Recommended for WEG CFW11 Inverter

| CFW11            |       |                                |                       |             | Maximum I <sup>2</sup> t of the fuse |  |  |
|------------------|-------|--------------------------------|-----------------------|-------------|--------------------------------------|--|--|
| Model            | Frame | Braking IGBT                   | Supply voltage (V ac) |             | (A <sup>2</sup> s)                   |  |  |
| CFW110022T50NFYZ | D     | Built-in                       | 690                   | Three-phase | 7,200                                |  |  |
| CFW110027T50NFYZ |       |                                |                       |             |                                      |  |  |
| CFW110032T50NFYZ |       | Not built-in                   |                       |             | 39,200                               |  |  |
| CFW110044T50NFYZ |       |                                |                       |             |                                      |  |  |
| CFW110053T60YZ   | E     | Not built-in                   | 39,200                | Three-phase | 218,000                              |  |  |
| CFW110063T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110080T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110107T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110125T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110150T60YZ   |       | Built-in                       |                       |             | 39,200                               |  |  |
| CFW110053T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110063T60DBYZ |       |                                |                       |             |                                      |  |  |
| CFW110080T60DBYZ |       |                                |                       |             |                                      |  |  |
| CFW110107T60DBYZ |       |                                |                       |             |                                      |  |  |
| CFW110125T60DBYZ | F     | External accessory (use DBW03) | 218,000               | Three-phase | 320,000                              |  |  |
| CFW110150T60DBYZ |       |                                |                       |             |                                      |  |  |
| CFW110170T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110216T60YZ   |       | External accessory (use DBW04) |                       |             | 414,000                              |  |  |
| CFW110289T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110315T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110365T60YZ   | G     | External accessory (use DBW04) | 1,051,000             | Three-phase | 1,445,000                            |  |  |
| CFW110435T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110472T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110584T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110625T60YZ   |       |                                |                       |             |                                      |  |  |
| CFW110758T60YZ   | H     | External accessory (use DBW04) | 1,620,000             | Three-phase | 500                                  |  |  |
| CFW110804T60YZ   |       |                                |                       |             |                                      |  |  |

Notes: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

Assembly on BNH individual fixing bases is recommended when more than a fuse is installed per phase.

### WEG aR Fuses Recommended for WEG CFW100 Inverter

| CFW100          |       |              |                       |              | Maximum I <sup>2</sup> t of the fuse |
|-----------------|-------|--------------|-----------------------|--------------|--------------------------------------|
| Model           | Frame | Braking IGBT | Supply voltage (V ac) |              | (A <sup>2</sup> s)                   |
| CFW100A01P6S220 | A     | Not built-in | 220                   | Single-phase | 166                                  |
| CFW100B02P6S220 |       |              |                       |              |                                      |
| CFW100C04P2S220 |       |              |                       |              |                                      |

| Recommended WEG aR fuses FNH blade contact |  |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |  |                      |          |                |  |  |
|--|--|--------|----------------------|----------|---------------|--|--|----------------------|----------|----------------|--|--|
|  | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A)                                   | Quantity in parallel | SAP code | WEG reference  |  |  |
|  | 00   | 40     |                      | 10702117 | FNH00-40K-A   | -  | -  | -                    | -        | -              |  |  |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  |  |                      |          |                |  |  |
|  | 00   | 50     |                      | 10701718 | FNH00-50K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  |  |                      |          |                |  |  |
|  | 00   | 63     |                      | 10705764 | FNH00-63K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737129 | FNH000-63K-A  |  |  |                      |          |                |  |  |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  |  |                      |          |                |  |  |
|  | 00   | 100    |                      | 10705995 | FNH00-80K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  |  |                      |          |                |  |  |
|  | 00   | 125    |                      | 10707110 | FNH00-100K-A  |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  |  |                      |          |                |  |  |
|  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A |  |  |                      |          |                |  |  |
|  | 00   | 160    |                      | 10701724 | FNH00-160K-A  | 3  | 450                                      | 1                    | 12644962 | FNH3FEM-450Y-A |  |  |
|  | 00   | 200    |                      | 10710732 | FNH00-200K-A  |  |  |                      |          |                |  |  |
|  | 00   | 250    |                      | 10711445 | FNH00-250K-A  | -  | -  | -                    | -        | -              |  |  |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |  |                      |          |                |  |  |
|  | 000  | 100    |                      | 13737131 | FNH000-100K-A |  |  |                      |          |                |  |  |
|  | 00   |        |                      | 10707110 | FNH00-100K-A  |  |  |                      |          |                |  |  |
|  | 000  | 125    |                      | 13737132 | FNH000-125K-A |  |  |                      |          |                |  |  |
|  | 00   |        |                      | 10707231 | FNH00-125K-A  |  |  |                      |          |                |  |  |
|  | 000  | 125    |                      | 13737132 | FNH000-125K-A |  |  |                      |          |                |  |  |
|  | 00   |        |                      | 10701724 | FNH00-160K-A  |  |  |                      |          |                |  |  |
|  | 00   | 200    |                      | 10710732 | FNH00-200K-A  | 3  | 450                                      | 1                    | 12644962 | FNH3FEM-450Y-A |  |  |
|  | 00   | 250    |                      | 10711445 | FNH00-250K-A  |  |  |                      |          |                |  |  |
|  | 1  | 350    |                      | 10814896 | FNH1-350K-A   |  |  |                      |          |                |  |  |
|  | 1  | 400    |                      | 10815073 | FNH1-400K-A   |  |  |                      |          |                |  |  |
|  | 2  | 630    |                      | 10824110 | FNH2-630K-A   |  |  |                      |          |                |  |  |
|  |  | 710    |                      | 10824110 | FNH2-630K-A   | 3  | 500                                      | 1                    | 12645317 | FNH3FEM-500Y-A |  |  |
|  | 3  | 800    |                      | 11393547 | FNH2-710K-A   |  |  |                      |          |                |  |  |
|  |  | 900    |                      | 10833726 | FNH3-800K-A   |  |  |                      |          |                |  |  |
|  |  | 1,000  |                      | 11393564 | FNH3-900K-A   |  |  |                      |          |                |  |  |
|  |  | 710    | 2                    | 11393564 | FNH3-900K-A   |  |  |                      |          |                |  |  |
|  | 3  | 800    |                      | 11393565 | FNH3-1000K-A  |  |  |                      |          |                |  |  |
|  | Recommended WEG aR fuses FNH blade contact |        |                      |          |               |  | Recommended WEG aR fuses FNHFE flush-end |                      |          |                |  |  |
|  | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A)                                   | Quantity in parallel | SAP code | WEG reference  |  |  |
|  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -  | -                    | -        | -              |  |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |  |                      |          |                |  |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |  |                      |          |                |  |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |  |                      |          |                |  |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |  |                      |          |                |  |  |

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |  |
|--|------|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|--|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |  |
|  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -      | -                    | -        | -             |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |

### WEG aR Fuses Recommended for WEG CFW300 Inverter

| CFW300          |                           | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |  |
|-----------------|---------------------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|--|
| Model           | Supply voltage (V ac)     | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |  |
| CFW300A01P6S120 | 110...127<br>single-phase | 166                                  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -      | -                    | -        | -             |  |
| CFW300A02P6S120 |                           |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A04P2S120 |                           |                                      | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A06P0S120 |                           |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A01P6S220 |                           | 200...240<br>single-phase            | 00   | 20     |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |
| CFW300A02P6S220 |                           |                                      | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |  |
| CFW300A04P2S220 |                           |                                      | 00   |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |               |  |
| CFW300A06P0S220 |                           |                                      | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |  |
| CFW300A07P3S220 |                           |                                      | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A01P6T220 |                           |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A02P6T220 | 200...240<br>three-phase  | 500                                  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A04P2T220 |                           |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A06P0T220 |                           |                                      | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A07P3T220 |                           |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A01P6D320 |                           | 280...340                            | -  | 20     |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A02P6D320 |                           |                                      | -  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A04P2D320 |                           |                                      | -  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300A06P0D320 |                           |                                      | -  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300A07P3D320 |                           |                                      | -  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW300B10P0B220 |                           | 200...240 V ac or<br>280...340 V dc  | 300  | 35     |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW300B15P2T220 |                           |                                      | 685  |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |
|                 |                           |                                      | 00   |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |  |
|                 |                           |                                      | 000  |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |
|                 |                           |                                      | 00   |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |  |
|                 |                           |                                      | 000  |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |

### WEG aR Fuses Recommended for WEG CFW500 Inverter

| CFW500          |                         | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |  |
|-----------------|-------------------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|--|
| Model           | Supply voltage (V ac)   | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |  |
| CFW500A01P6S2   | 200-240<br>single-phase | 373                                  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | -  | -      | -                    | -        | -             |  |
| CFW500A02P6S2   |                         |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500A04P3S2   |                         |                                      | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500A07P0S2   |                         |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500A01P6D320 |                         | 800                                  | 00   | 40     |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |  |
| CFW500A02P6D320 |                         |                                      | 000  |        |                      | 13735555 | FNH000-25K-A  |  |        |                      |          |               |  |
| CFW500A04P2D320 |                         |                                      | 00   |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |               |  |
| CFW500A06P0D320 |                         |                                      | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |  |
| CFW500B10P0B220 |                         |                                      | 00   |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |
| CFW500B15P2T220 |                         |                                      | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |  |

**WEG aR Fuses Recommended for WEG CFW500 Inverter**

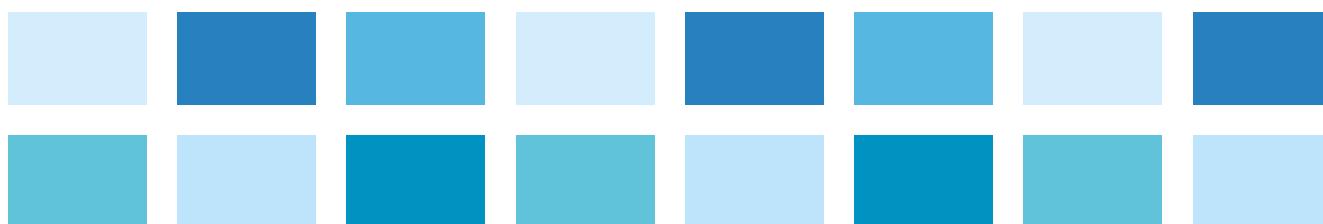
| CFW500        |                                   | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |  |
|---------------|-----------------------------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|--|
| Model         | Supply voltage (V ac)             | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |  |
| CFW500A01P6B2 | 200-240 connected in single-phase | 680                                  | 00   | 20     | 1                    | 10687494 | FNH00-20K-A   | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500A02P6B2 |                                   |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500A04P3B2 |                                   |                                      | 00   | 25     |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500A01P6B2 |                                   |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500A02P6B2 |                                   |                                      | 00   | 20     |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |  |
| CFW500A04P3B2 |                                   |                                      | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |  |
| CFW500A07POT2 | 200-240 three-phase               | 1,250                                | 00   | 25     | 1                    | 10687494 | FNH00-20K-A   | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500A09P6T2 |                                   |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500B07P3B2 |                                   |                                      | 00   | 40     |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500B10P0B2 |                                   |                                      | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500B07P3B2 |                                   |                                      | 00   | 20     |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |  |
| CFW500B10P0B2 |                                   |                                      | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |  |
| CFW500B16POT2 | 200-240 three-phase               | 2,750                                | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500C24POT2 |                                   |                                      | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |  |
| CFW500D28POT2 |                                   |                                      | 00   | 20     |                      | 10806688 | FNH1-63K-A    |  |        |                      |          |               |  |
| CFW500D33POT2 |                                   |                                      | 000  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500D47POT2 |                                   |                                      | 00   | 25     |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500D56POT2 |                                   |                                      | 000  |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |  |
| CFW500A01POT4 | 380-480 three-phase               | 450                                  | 00   | 40     | 1                    | 13735656 | FNH000-25K-A  | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500A01P6T4 |                                   |                                      | 000  |        |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |               |  |
| CFW500A02P6T4 |                                   |                                      | 00   | 20     |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |  |
| CFW500A04P3T4 |                                   |                                      | 000  |        |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |               |  |
| CFW500A06P1T4 |                                   |                                      | 00   | 25     |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |  |
| CFW500B02P6T4 |                                   |                                      | 000  |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |               |  |
| CFW500B04P3T4 |                                   |                                      | 00   | 100    |                      | 13737131 | FNH000-100K-A |  |        |                      |          |               |  |
| CFW500D47POT2 |                                   |                                      | 000  |        |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |               |  |
| CFW500D56POT2 |                                   |                                      | 000  | 125    |                      | 13737131 | FNH000-100K-A |  |        |                      |          |               |  |
| CFW500A01POT4 |                                   |                                      | 000  |        |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |               |  |
| CFW500A01P6T4 |                                   |                                      | 000  | 125    |                      | 13737132 | FNH000-125K-A |  |        |                      |          |               |  |
| CFW500A02P6T4 |                                   |                                      | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500A04P3T4 |                                   |                                      | 000  | 20     | 1                    | 13735555 | FNH000-20K-A  | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500A06P1T4 |                                   |                                      | 000  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500B02P6T4 |                                   |                                      | 000  | 25     |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |  |
| CFW500B04P3T4 |                                   |                                      | 000  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |  |
| CFW500B06P5T4 |                                   |                                      | 000  | 35     | 1                    | 13735555 | FNH000-20K-A  | 1  | 1      | 1                    | 1        | 1             |  |
| CFW500B10POT4 |                                   |                                      | 000  |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |  |
| CFW500C13POT4 |                                   |                                      | 000  | 35     |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |  |
| CFW500C16POT4 |                                   |                                      | 000  |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |  |

Note: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

## WEG aR Fuses Recommended for WEG CFW500 Inverter

| CFW500        |                        | Maximum IPt of the fuse<br>(A <sup>2</sup> s) | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |
|---------------|------------------------|---|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|
| Model         | Supply voltage (V ac)  |   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |
| CFW500D24POT4 | 380-480<br>three-phase | 1,800   | 00   | 63     | 1                    | 10705764 | FNH00-63K-A   | -  | -      | -                    | -        | -             |
| CFW500D31POT4 |                        |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |
| CFW500E39POT4 |                        |   | 00   |        |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |               |
| CFW500E49POT4 |                        |   | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |
| CFW500C01P7T5 |                        | 1,000   | 00   | 20     | 1                    | 10705995 | FNH00-80K-A   |  |        |                      |          |               |
| CFW500C03POT5 |                        |   | 000  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |
| CFW500C04P3T5 |                        |   | 00   |        |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |               |
| CFW500C07POT5 |                        |   | 000  |        |                      | 13737132 | FNH000-125K-A |  |        |                      |          |               |
| CFW500C10POT5 |                        |   | 00   | 25     | 1                    | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
| CFW500C12POT5 |                        |   | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|               |                        |   | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|               |                        |   | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|               |                        |   | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|               |                        |   | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|               |                        |   | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|               |                        |   | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |
|               |                        |   | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|               |                        |   | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |

Note: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.



**WEG aR Fuses Recommended for WEG CFW501 Inverter**

| CFW501        |       |                          | Maximum I <sup>2</sup> t<br>of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |              |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |
|---------------|-------|--------------------------|---|--|--------|----------------------|--------------|---------------|--|--------|----------------------|----------|---------------|
| Model         | Frame | Supply voltage<br>(V ac) | (A <sup>2</sup> s)                      | Size                                       | In (A) | Quantity in parallel | SAP code     | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |
| CFW501A01P6T2 | A     | 200 - 240                | 680                                     | 00   | 20     | 1                    | 10687494     | FNH00-20K-A   | 680                                      | 20     | 1                    | 680      | 20            |
| CFW501A02P6T2 |       |                          |   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501A04P3T2 |       |                          |   | 00   |        |                      | 10687494     | FNH00-20K-A   |  |        |                      |          |               |
| CFW501A07P0T2 |       |                          |   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501A09P6T2 |       |                          |   | 00   |        |                      | 10687494     | FNH00-20K-A   |  |        |                      |          |               |
| CFW501B07P3T2 |       |                          |   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501B10P0T2 |       |                          |   | 00   |        |                      | 10701722     | FNH00-25K-A   |  |        |                      |          |               |
| CFW501B16P0T2 |       |                          |   | 000  |        |                      | 13735656     | FNH000-25K-A  |  |        |                      |          |               |
| CFW501C24P0T2 | C     |                          |   | 00   | 25     | 1                    | 10687494     | FNH00-20K-A   |  |        |                      |          |               |
| CFW501A01P0T4 | A     | Three-phase              | 1,000                                   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501A01P6T4 |       |                          |   | 00   |        |                      | 10701722     | FNH00-25K-A   |  |        |                      |          |               |
| CFW501A02P6T4 |       |                          |   | 000  |        |                      | 13735656     | FNH000-25K-A  |  |        |                      |          |               |
| CFW501A04P3T4 |       |                          |   | 00   |        |                      | 10702117     | FNH00-40K-A   |  |        |                      |          |               |
| CFW501A06P1T4 |       |                          |   | 000  |        |                      | 13737107     | FNH000-40K-A  |  |        |                      |          |               |
| CFW501B02P6T4 |       |                          |   | 00   | 40     | 1                    | 10705764     | FNH00-63K-A   |  |        |                      |          |               |
| CFW501B04P3T4 |       |                          |   | 000  |        |                      | 13737129     | FNH000-63K-A  |  |        |                      |          |               |
| CFW501B06P5T4 |       |                          |   | 00   |        |                      | 10687494     | FNH00-20K-A   |  |        |                      |          |               |
| CFW501B10P0T4 |       |                          |   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501C14P0T4 | C     | 450                      | 1,000                                   | 00   | 25     | 1                    | 10687494     | FNH00-20K-A   |  |        |                      |          |               |
| CFW501C16P0T4 |       |                          |   | 000  |        |                      | 13735555     | FNH000-20K-A  |  |        |                      |          |               |
| CFW501D24P0T4 |       |                          |   | 00   |        |                      | 10701722     | FNH00-25K-A   |  |        |                      |          |               |
| CFW501D31P0T4 |       |                          |   | 000  |        |                      | 13735656     | FNH000-25K-A  |  |        |                      |          |               |
| CFW501D31P0T4 | D     |                          |   | 00   | 63     | 1                    | 10701721     | FNH00-35K-A   |  |        |                      |          |               |
| CFW501D31P0T4 | 000   |                          |   | 13737105                                   |        |                      | FNH000-35K-A |               |  |        |                      |          |               |
| CFW501D31P0T4 | 00    |                          |   | 10701721                                   |        |                      | FNH00-35K-A  |               |  |        |                      |          |               |
| CFW501D31P0T4 | 000   |                          |   | 13737105                                   |        |                      | FNH000-35K-A |               |  |        |                      |          |               |

**WEG aR Fuses Recommended for WEG CFW700 Inverter**

| CFW700                    |       |              |                       |                             | Maximum I <sup>2</sup> t of the fuse<br>(A <sup>2</sup> s) |  |
|---------------------------|-------|--------------|-----------------------|-----------------------------|--|--|
| Model                     | Frame | Braking IGBT | Supply voltage (V ac) |                             |  |  |
| CFW700B33P5T2DB20H1ACS1   | B     | -            | 220-230               | Single-phase                | 1,000  |  |
| CFW700C70POT2DB20H1ACS1   | C     |              |                       |                             | 2,750  |  |
| CFW700D0105T2DBN1H1ACS1   | D     |              | 380-480               |                             | 3,150  |  |
| CFW700E0211T2DB20C3H1ACS1 | E     |              |                       |                             | 218,000  |  |
| CFW700B31P0T4DB20H1ACS1   | B     |              |                       |                             | 1,250  |  |
| CFW700C58P5T4DB20H1ACS1   | C     |              |                       |                             | 2,100  |  |
| CFW700D88POT4DBN1H1ACS1   | D     |              |                       |                             | 3,150  |  |
| CFW700E0211T4DB20C3H1ACS1 | E     |              |                       |                             | 218,000  |  |
| CFW700A10P0S2DB           | A     | Built-in     | 220                   | Single-phase or three-phase | 1,000  |  |
| CFW700A06P0B2DB           |       |              |                       |                             | 420  |  |
| CFW700A07P0B2DB           |       |              |                       |                             |  |  |
| CFW700A07P0T2DB           |       |              |                       |                             |  |  |
| CFW700A10P0T2DB           |       |              |                       |                             |  |  |
| CFW700A13P0T2DB           |       |              |                       |                             |  |  |
| CFW700A16P0T2DB           |       |              |                       |                             |  |  |
| CFW700B24P0T2DB           | B     | Not built-in | 380                   | Three-phase                 | 1,000  |  |
| CFW700B28P0T2DB           |       |              |                       |                             |  |  |
| CFW700B33P5T2DB           |       |              |                       |                             |  |  |
| CFW700C45P0T2DB           |       |              |                       |                             |  |  |
| CFW700C54P0T2DB           | C     | Built-in     | 220                   | Single-phase or three-phase | 2,750  |  |
| CFW700C70P0T2DB           |       |              |                       |                             |  |  |
| CFW700D66P0T2DB           |       |              |                       |                             |  |  |
| CFW700D0105T2DB           | D     | Not built-in | 380                   | Three-phase                 | 3,150  |  |
| CFW700E0142T2NB           |       |              |                       |                             | 39,200   |  |
| CFW700E0180T2NB           |       |              |                       |                             | 218,000  |  |
| CFW700E0211T2NB           |       |              |                       |                             |  |  |
| CFW700E0142T2DB           |       |              |                       |                             |  |  |
| CFW700E0180T2DB           |       |              |                       |                             |  |  |
| CFW700E0211T2DB           |       |              |                       |                             |  |  |
| CFW700A03P6T4DB           | A     | Built-in     | 220                   | Single-phase or three-phase | 190  |  |
| CFW700A05P0T4DB           |       |              |                       |                             |  |  |
| CFW700A07P0T4DB           |       |              |                       |                             |  |  |
| CFW700A10P0T4DB           |       |              |                       |                             |  |  |
| CFW700A13P5T4DB           |       |              |                       |                             |  |  |
| CFW700B17P0T4DB           | B     | Not built-in | 380                   | Three-phase                 | 495  |  |
| CFW700B24P0T4DB           |       |              |                       |                             |  |  |
| CFW700B31P0T4DB           |       |              |                       |                             |  |  |

Note: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |                |
|--|------|--------|----------------------|----------|---------------|--|--------|----------------------|----------|----------------|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference  |
|  | 00   |        | 63                   | 10705764 | FNH00-63K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |                |
|  | 00   |        | 100                  | 10707110 | FNH00-100K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10701724 | FNH00-160K-A  |  |        |                      |          |                |
|  | 1    | 400    |                      | 10815073 | FNH1-400K-A   | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 00   |        | 50                   | 10701718 | FNH00-50K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |                |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|  | 000  | 80     |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |                |
|  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |                |
|  | 1    | 400    |                      | 10815073 | FNH1-400K-A   | 3  | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 00   |        | 25                   | 10701722 | FNH00-25K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |                |
|  | 00   |        | 20                   | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        | 25                   | 10701722 | FNH00-25K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |                |
|  | 00   |        | 35                   | 10701721 | FNH00-35K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |                |
|  | 00   |        | 40                   | 10702117 | FNH00-40K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |                |
|  | 00   |        | 50                   | 10701718 | FNH00-50K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |                |
|  | 00   |        | 80                   | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |                |
|  | 00   |        | 100                  | 10707110 | FNH00-100K-A  |  |        |                      |          |                |
|  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |                |
|  |      | 250    | 1                    | 10809489 | FNH1-250K-A   |  |        |                      |          |                |
|  |      | 315    |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |                |
|  |      | 350    |                      | 10814896 | FNH1-350K-A   |  |        |                      |          |                |
|  |      | 250    |                      | 10809489 | FNH1-250K-A   |  |        |                      |          |                |
|  |      | 315    |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |                |
|  |      | 350    |                      | 10814896 | FNH1-350K-A   |  |        |                      |          |                |
|  | 00   |        | 20                   | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |                |
|  | 00   |        | 25                   | 10701722 | FNH00-25K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |                |
|  | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |                |
|  | 00   |        | 35                   | 10701721 | FNH00-35K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |                |
|  | 00   |        | 40                   | 10702117 | FNH00-40K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |                |
|  | 00   |        | 50                   | 10701718 | FNH00-50K-A   |  |        |                      |          |                |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |                |

**WEG aR Fuses Recommended for WEG CFW700 Inverter**

| CFW700          |              |              |                       |             | Maximum I <sup>2</sup> t of the fuse<br>(A <sup>2</sup> s) |  |  |  |
|-----------------|--------------|--------------|-----------------------|-------------|--|--|--|--|
| Model           | Frame        | Braking IGBT | Supply voltage (V ac) |             |  |  |  |  |
| CFW700C38POT4DB | C            | Built-in     | 380                   | Three-phase | 1,250  |  |  |  |
| CFW700C45POT4DB |              |              |                       |             | 2,100  |  |  |  |
| CFW700C58P5T4DB | D            |              |                       |             | 3,150  |  |  |  |
| CFW700D70P5T4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700D88POT4DB | E            |              |                       |             | 218,000  |  |  |  |
| CFW700E0105T4NB |              |              |                       |             | 39,200   |  |  |  |
| CFW700E0142T4NB |              |              |                       |             | 218,000  |  |  |  |
| CFW700E0180T4NB |              |              |                       |             | 39,200   |  |  |  |
| CFW700E0211T4NB |              |              |                       |             | 39,200   |  |  |  |
| CFW700E0105T4DB | Not built-in |              |                       |             | 495  |  |  |  |
| CFW700E0142T4DB |              |              |                       |             | 500  |  |  |  |
| CFW700E0180T4DB | A            | Built-in     | 440                   | Three-phase | 1,250  |  |  |  |
| CFW700E0211T4DB |              |              |                       |             | 2,100  |  |  |  |
| CFW700A03P6T4DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700A05POT4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700A07POT4DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700A10POT4DB | B            |              |                       |             | 39,200   |  |  |  |
| CFW700A13P5T4DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700B17POT4DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700B24POT4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700B31POT4DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700C38POT4DB | C            |              |                       |             | 39,200   |  |  |  |
| CFW700C45POT4DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700C58P5T4DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700D70P5T4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700D88POT4DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700E0105T4NB | D            | Not built-in | 600                   | Three-phase | 39,200   |  |  |  |
| CFW700E0142T4NB |              |              |                       |             | 218,000  |  |  |  |
| CFW700E0180T4NB |              |              |                       |             | 39,200   |  |  |  |
| CFW700E0211T4NB |              |              |                       |             | 218,000  |  |  |  |
| CFW700E0105T4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700E0142T4DB | E            |              |                       |             | 218,000  |  |  |  |
| CFW700E0180T4DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700E0211T4DB |              |              |                       |             | 39,200   |  |  |  |
| CFW700B02P9T5DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700B04P2T5DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700B07POT5DB | B            | Built-in     |                       |             | 39,200   |  |  |  |
| CFW700B10POT5DB |              |              |                       |             | 218,000  |  |  |  |
| CFW700B12POT5DB |              |              |                       |             | 3,150  |  |  |  |
| CFW700B17POT5DB |              |              |                       |             | 39,200   |  |  |  |

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          | Recommended WEG aR fuses FNHFE flush-end |      |        |                      |          |                |
|--|------|--------|----------------------|----------|--|------|--------|----------------------|----------|----------------|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference                            | Size | In (A) | Quantity in parallel | SAP code | WEG reference  |
|  | 00   |        |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |
|  | 000  |        | 63                   | 13737129 | FNH000-63K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |
|  | 000  |        |                      | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |
|  | 00   | 80     |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |
|  | 00   | 100    |                      | 10707231 | FNH00-125K-A                             |      |        |                      |          |                |
|  | 00   | 125    |                      | 1070724  | FNH00-160K-A                             |      |        |                      |          |                |
|  | 00   | 160    |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |
|  | 00   | 250    |                      | 10809575 | FNH1-315K-A                              | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 1    | 315    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |
|  | 00   | 350    |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |
|  | 00   | 160    |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |
|  | 00   | 250    |                      | 10809575 | FNH1-315K-A                              | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 1    | 315    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |
|  | 00   | 350    |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        | 20                   | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        | 25                   | 10701722 | FNH00-25K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10701722 | FNH00-25K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10701721 | FNH00-35K-A                              |      |        |                      |          |                |
|  | 00   |        | 35                   | 13737105 | FNH000-35K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10702117 | FNH00-40K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10701718 | FNH00-50K-A                              |      |        |                      |          |                |
|  | 00   |        | 40                   | 13737128 | FNH000-50K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13737129 | FNH000-63K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |
|  | 00   |        | 50                   | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10707231 | FNH00-125K-A                             |      |        |                      |          |                |
|  | 00   |        | 63                   | 1070724  | FNH00-160K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 10809575 | FNH1-315K-A                              | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 1    | 315    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |
|  | 00   | 160    |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |
|  | 00   | 250    |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |
|  | 1    | 315    |                      | 10809575 | FNH1-315K-A                              | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
|  | 00   | 350    |                      | 10814896 | FNH1-350K-A                              |      |        |                      |          |                |
|  | 00   | 160    |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        | 20                   | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |                |
|  | 00   |        | 25                   | 13735555 | FNH000-20K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10701722 | FNH00-25K-A                              |      |        |                      |          |                |
|  | 00   |        |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |                |
|  | 00   |        |                      | 10701721 | FNH00-35K-A                              |      |        |                      |          |                |
|  | 00   |        | 35                   | 13737105 | FNH000-35K-A                             |      |        |                      |          |                |

### WEG aR Fuses Recommended for WEG CFW700 Inverter

| CFW700          |       |              |                       |             | Maximum I <sup>2</sup> t of the fuse |  |  |  |
|-----------------|-------|--------------|-----------------------|-------------|--------------------------------------|--|--|--|
| Model           | Frame | Braking IGBT | Supply voltage (V ac) |             | (A <sup>2</sup> s)                   |  |  |  |
| CFW700C22P0T5   | C     | Built-in     | 600                   | Three-phase | 2,100                                |  |  |  |
| CFW700C27P0T5   |       |              |                       |             |                                      |  |  |  |
| CFW700C32P0T5   |       |              |                       |             |                                      |  |  |  |
| CFW700C44P0T5   |       |              |                       |             |                                      |  |  |  |
| CFW700D22P0T5DB | D     |              | 600                   | Three-phase | 7,200                                |  |  |  |
| CFW700D27P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700D32P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700D44P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700E53P0T5NB | E     | Not built-in | 600                   | Three-phase | 39,200                               |  |  |  |
| CFW700E63P0T5NB |       |              |                       |             |                                      |  |  |  |
| CFW700E80P0T5NB |       |              |                       |             |                                      |  |  |  |
| CFW700E0107T5NB |       |              |                       |             |                                      |  |  |  |
| CFW700E0125T5NB |       |              |                       |             |                                      |  |  |  |
| CFW700E0150T5NB |       | Built-in     |                       |             |                                      |  |  |  |
| CFW700E53P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700E63P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700E80P0T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700E0107T5DB |       |              |                       |             |                                      |  |  |  |
| CFW700E0180T4DB |       | 218,000      |                       |             |                                      |  |  |  |
| CFW700E0211T4DB |       |              |                       |             |                                      |  |  |  |

### WEG aR Fuses Recommended for WEG CFW701 Inverter

| CFW701        |       |                       |                  | Maximum I <sup>2</sup> t of the fuse |
|---------------|-------|-----------------------|------------------|--------------------------------------|
| Model         | Frame | Supply voltage (V ac) | Number of phases | (A <sup>2</sup> s)                   |
| CFW700C22P0T5 | A     | 220...240             | 1                | 420                                  |
| CFW700C27P0T5 |       |                       |                  |                                      |
| CFW700C32P0T5 |       |                       |                  | 1,000                                |
| CFW700C44P0T5 |       |                       |                  |                                      |
| CFW701A10P0T2 | B     |                       | 3                | 420                                  |
| CFW701A13P0T2 |       |                       |                  |                                      |
| CFW701A16P0T2 |       |                       |                  |                                      |
| CFW701B24P0T2 |       |                       | 3                | 1,000                                |
| CFW701B28P0T2 |       |                       |                  |                                      |
| CFW701B33P5T2 |       |                       |                  |                                      |

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          | Recommended WEG aR fuses FNHFE flush-end |      |        |                      |          |                |  |
|--|------|--------|----------------------|----------|--|------|--------|----------------------|----------|----------------|--|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference                            | Size | In (A) | Quantity in parallel | SAP code | WEG reference  |  |
|  | 00   | 40     | 1                    | 10702117 | FNH00-40K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |                |  |
|  | 00   | 50     |                      | 10701718 | FNH00-50K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737128 | FNH000-50K-A                             |      |        |                      |          |                |  |
|  | 00   | 63     |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737129 | FNH000-63K-A                             |      |        |                      |          |                |  |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |  |
|  | 00   | 40     |                      | 10702117 | FNH00-40K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |                |  |
|  | 00   | 50     |                      | 10701718 | FNH00-50K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737128 | FNH000-50K-A                             |      |        |                      |          |                |  |
|  | 00   | 63     |                      | 10705764 | FNH00-63K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737129 | FNH000-63K-A                             |      |        |                      |          |                |  |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737130 | FNH000-80K-A                             |      |        |                      |          |                |  |
|  | 00   | 100    |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A                            |      |        |                      |          |                |  |
|  | 00   | 125    |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A                            |      |        |                      |          |                |  |
|  | 00   | 160    |                      | 10707231 | FNH00-125K-A                             |      |        |                      |          |                |  |
|  | 000  |        |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  | 1    | 200    |                      | 10710732 | FNH00-200K-A                             | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
|  | 00   | 250    |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |  |
|  | 00   | 80     |                      | 10705995 | FNH00-80K-A                              |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737131 | FNH000-100K-A                            |      |        |                      |          |                |  |
|  | 00   | 100    |                      | 10707110 | FNH00-100K-A                             |      |        |                      |          |                |  |
|  | 000  |        |                      | 13737132 | FNH000-125K-A                            |      |        |                      |          |                |  |
|  | 00   | 125    |                      | 10707231 | FNH00-125K-A                             |      |        |                      |          |                |  |
|  | 000  |        |                      | 10701724 | FNH00-160K-A                             |      |        |                      |          |                |  |
|  | 00   | 160    |                      | 10710732 | FNH00-200K-A                             | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |  |
|  | 000  |        |                      | 10809489 | FNH1-250K-A                              |      |        |                      |          |                |  |

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          | Recommended WEG aR fuses FNHFE flush-end |      |        |                      |          |               |
|--|------|--------|----------------------|----------|--|------|--------|----------------------|----------|---------------|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference                            | Size | In (A) | Quantity in parallel | SAP code | WEG reference |
|  | 00   | 1      | 20                   | 10687494 | FNH00-20K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |               |
|  | 00   |        |                      | 10687494 | FNH00-20K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |               |
|  | 00   |        |                      | 10701722 | FNH00-25K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13737105 | FNH000-35K-A                             |      |        |                      |          |               |
|  | 00   |        | 20                   | 10687494 | FNH00-20K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |               |
|  | 00   |        | 25                   | 10701722 | FNH00-25K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A                             |      |        |                      |          |               |
|  | 00   |        | 35                   | 10701722 | FNH00-25K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13735656 | FNH000-25K-A                             |      |        |                      |          |               |
|  | 00   |        | 40                   | 10701721 | FNH00-35K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13737105 | FNH000-35K-A                             |      |        |                      |          |               |
|  | 00   |        | 50                   | 10702117 | FNH00-40K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |               |
|  | 00   |        | 63                   | 10702117 | FNH00-40K-A                              |      |        |                      |          |               |
|  | 000  |        |                      | 13737107 | FNH000-40K-A                             |      |        |                      |          |               |

**WEG aR Fuses Recommended for WEG CFW701 Inverter**

| CFW701        |       |                          |                  | Maximum I <sup>2</sup> t of the fuse |
|---------------|-------|--------------------------|------------------|--------------------------------------|
| Model         | Frame | Supply voltage<br>(V ac) | Number of phases | (A <sup>2</sup> s)                   |
| CFW701C45P0T2 | C     | 220...240                | 3                | 2,750                                |
| CFW701C54P0T2 |       |                          |                  |                                      |
| CFW701C70P0T2 |       |                          |                  |                                      |
| CFW701D86P0T2 |       |                          |                  |                                      |
| CFW701D0105T2 |       |                          |                  |                                      |
| CFW701E0142T2 |       |                          |                  |                                      |
| CFW701E0180T2 |       |                          |                  |                                      |
| CFW701E0211T2 |       |                          |                  |                                      |
| CFW701A03P6T4 |       |                          |                  |                                      |
| CFW701A05P0T4 |       |                          |                  |                                      |
| CFW701A07P0T4 | A     | 380...480                | 3                | 190                                  |
| CFW701A10P0T4 |       |                          |                  |                                      |
| CFW701A13P5T4 |       |                          |                  |                                      |
| CFW701B17P0T4 |       |                          |                  |                                      |
| CFW701B24P0T4 |       |                          |                  |                                      |
| CFW701B31P0T4 | B     | 500..600                 | 3                | 500                                  |
| CFW701C38P0T4 |       |                          |                  |                                      |
| CFW701C45P0T4 |       |                          |                  |                                      |
| CFW701C58P5T4 |       |                          |                  |                                      |
| CFW701D70P5T4 |       |                          |                  |                                      |
| CFW701D88P0T4 |       |                          |                  |                                      |
| CFW701E0105T4 |       |                          |                  |                                      |
| CFW701E0142T4 |       |                          |                  |                                      |
| CFW701E0180T4 |       |                          |                  |                                      |
| CFW701E0211T4 |       |                          |                  |                                      |
| CFW701B02P9T5 | B     | 500..600                 | 3                | 1,250                                |
| CFW701B04P2T5 |       |                          |                  |                                      |
| CFW701B07P0T5 |       |                          |                  |                                      |
| CFW701B10P0T5 |       |                          |                  |                                      |
| CFW701B12P0T5 |       |                          |                  |                                      |
| CFW701B17P0T5 | C     | 500..600                 | 3                | 2,100                                |
| CFW701C22P0T5 |       |                          |                  |                                      |
| CFW701C27P0T5 |       |                          |                  |                                      |
| CFW701C32P0T5 |       |                          |                  |                                      |
| CFW701C44P0T5 |       |                          |                  |                                      |

Note: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

| Recommended WEG aR fuses FNH blade contact |      |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |
|--|------|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|
|  | Size | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737131 | FNH000-100K-A |  |        |                      |          |               |
|  | 00   |        |                      | 10707110 | FNH00-100K-A  |  |        |                      |          |               |
|  | 000  | 100    |                      | 13737131 | FNH000-100K-A |  |        |                      |          |               |
|  | 00   |        |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |               |
|  | 1    |        |                      | 10809489 | FNH1-250K-A   |  |        |                      |          |               |
|  |      | 250    |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |               |
|  |      | 315    |                      | 10814896 | FNH1-350K-A   |  |        |                      |          |               |
|  |      | 350    |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10701718 | FNH00-50K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |
|  | 000  |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |               |
|  | 000  | 80     |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |
|  | 1    | 100    |                      | 10807553 | FNH1-100K-A   |  |        |                      |          |               |
|  | 00   | 125    |                      | 10707231 | FNH00-125K-A  |  |        |                      |          |               |
|  | 00   | 160    |                      | 10701724 | FNH00-160K-A  |  |        |                      |          |               |
|  | 1    | 250    |                      | 10809489 | FNH1-250K-A   |  |        |                      |          |               |
|  | 1    | 315    |                      | 10809575 | FNH1-315K-A   |  |        |                      |          |               |
|  | 1    | 400    |                      | 10815073 | FNH1-400K-A   |  |        |                      |          |               |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10687494 | FNH00-20K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13735555 | FNH000-20K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10701722 | FNH00-25K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13735656 | FNH000-25K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10701721 | FNH00-35K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737105 | FNH000-35K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10702117 | FNH00-40K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737107 | FNH000-40K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10701718 | FNH00-50K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737128 | FNH000-50K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10705764 | FNH00-63K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737129 | FNH000-63K-A  |  |        |                      |          |               |
|  | 00   |        |                      | 10705995 | FNH00-80K-A   |  |        |                      |          |               |
|  | 000  |        |                      | 13737130 | FNH000-80K-A  |  |        |                      |          |               |

## WEG aR Fuses Recommended for WEG CFW701 Inverter

| CFW701        |       |                       |                  |                    | Maximum I <sup>2</sup> t of the fuse |
|---------------|-------|-----------------------|------------------|--------------------|--------------------------------------|
| Model         | Frame | Supply voltage (V ac) | Number of phases | (A <sup>2</sup> s) |                                      |
| CFW701D22P0T5 | D     | 500...600             | 3                | 7,200              | 7,200                                |
| CFW701D27P0T5 |       |                       |                  |                    |                                      |
| CFW701D32P0T5 |       |                       |                  |                    |                                      |
| CFW701D44P0T5 |       |                       |                  |                    |                                      |
| CFW701E53P0T5 | E     |                       |                  | 39,200             | 39,200                               |
| CFW701E63P0T5 |       |                       |                  |                    |                                      |
| CFW701E80P0T5 |       |                       |                  |                    |                                      |
| CFW701E0107T5 |       |                       |                  |                    |                                      |
| CFW701E0125T5 |       |                       |                  |                    |                                      |
| CFW701E0150T5 |       |                       |                  |                    | 218,000                              |

## WEG aR Fuses Recommended for WEG MW500 Inverter

| MW500        |       |                       | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |  |  |  |
|--------------|-------|-----------------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|--|--|--|
| Model        | Frame | Supply voltage (V ac) | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |  |  |  |
| MW500A0493S2 | A     | 200-240               | Single-phase                         | 373  | 00     | 20                   | 1        | 10687494      | FNH00-20K-A                              |        |                      |          |               |  |  |  |
| MW500A06P0S2 |       |                       |                                      |  | 000    |                      |          | 13735555      | FNH000-20K-A                             |        |                      |          |               |  |  |  |
| MW500A02P6T4 |       | 380-480               | Three-phase                          | 420  | 00     | 25                   |          | 10701722      | FNH00-25K-A                              |        |                      |          |               |  |  |  |
| MW500A04P3T4 |       |                       |                                      |  | 000    |                      |          | 13735656      | FNH000-25K-A                             |        |                      |          |               |  |  |  |
| MW500B06P5T4 | B     |                       |                                      | 450  | 00     | 20                   |          | 10687494      | FNH00-20K-A                              |        |                      |          |               |  |  |  |
| MW500B10P0T4 |       |                       |                                      |  | 000    |                      |          | 13735555      | FNH00-20K-A                              |        |                      |          |               |  |  |  |
|              |       |                       |                                      |  | 00     | 25                   |          | 10687494      | FNH00-20K-A                              |        |                      |          |               |  |  |  |
|              |       |                       |                                      |  | 000    |                      |          | 13735555      | FNH00-20K-A                              |        |                      |          |               |  |  |  |
|              |       |                       |                                      | 1,000                                      | 00     | 25                   |          | 10701722      | FNH00-25K-A                              |        |                      |          |               |  |  |  |
|              |       |                       |                                      |  | 000    |                      |          | 13735656      | FNH000-25K-A                             |        |                      |          |               |  |  |  |

## WEG aR Fuses Recommended for WEG FAW Active Filter

| FAW700         |       |                       | Maximum I <sup>2</sup> t of the fuse | Recommended WEG aR fuses FNH blade contact |        |                      |          |               | Recommended WEG aR fuses FNHFE flush-end |        |                      |          |               |                |
|----------------|-------|-----------------------|--------------------------------------|--|--------|----------------------|----------|---------------|--|--------|----------------------|----------|---------------|----------------|
| Model          | Frame | Supply voltage (V ac) | (A <sup>2</sup> s)                   | Size                                       | In (A) | Quantity in parallel | SAP code | WEG reference | Size                                     | In (A) | Quantity in parallel | SAP code | WEG reference |                |
| FAW700G230T420 | G     | 380-480               | Three-phase                          | 49,000                                     | 1      | 400                  | 1        | 10815073      | FNH1-400K-A                              | 3      | 450                  | 1        | 12644962      | FNH3FEM-450Y-A |

## WEG aR Fuses for the Input Circuit of WEG CTW900 AC/DC Converter

| CFW900  |   | Fuses recommended to protect the input circuit of the armature (AC side) |              |               |          |      |  |               |          |                |          |
|---|---|--|--------------|---------------|----------|------|--|---------------|----------|----------------|----------|
|   |   | Recommended WEG aR fuses FNH blade contact                               |              |               |          |      | Recommended WEG aR fuses FNHFE flush-end |               |          |                |          |
| Model   | Maximum I <sup>2</sup> t of the fuse (A <sup>2</sup> s) | Size   | In (A)       | WEG reference | SAP code | Size | In (A)                                   | WEG reference | SAP code |                |          |
| 20 A  | 6,000   | 00   | 25           | FNH00-25K-A   | 10701722 |      | 3  |               | 450      | FNH3FEM-450Y-A | 12644962 |
| 50 A  |   | 000  | 25           | FNH000-25K-A  | 13735656 |      |  |               |          |                |          |
| 90 A  |   | 00   | 63           | FNH00-63K-A   | 10705764 |      |  |               |          |                |          |
| 125 A   |   | 000  | 80           | FNH000-80K-A  | 13737130 |      |  |               |          |                |          |
| 180 A   | 73,000  | 125  | FNH00-125K-A | 10707231      |          |      |  |               |          |                |          |
| 260 A   | 63,000  | 160  | FNH00-160K-A | 10701724      |          |      |  |               |          |                |          |
| 480 A   | 240,000   | 250  | FNH00-250K-A | 10711445      |          |      |  |               |          |                |          |
| 640 A   | 300,000   | 350  | FNH1-350K-A  | 10814896      |          |      |  |               |          |                |          |
| 1,000 A   | 900,000   | 710  | FNH2-710K-A  | 11393547      |          |      |  |               |          |                |          |
| 1,500 A   |   | 800  | FNH3-800K-A  | 10833726      |          |      |  |               |          |                |          |
| 2,000 A   |   | -  | -            | -             |          |      |  |               |          |                |          |
| Circuit breaker to protect the circuit. WEG fuses used in the product |   |  |              |               |          |      |  |               |          |                |          |

Note: For this application, the fuses cannot be assembled on FSW and RFW switch-disconnectors; only on BNH individual fixing bases.

## Recommended WEG aR fuses FNH blade contact

## Recommended WEG aR fuses FNHFE flush-end

|   | Size | In (A) | Quantity in parallel | SAP code | WEG reference | Size | In (A) | Quantity in parallel | SAP code | WEG reference  |
|---|------|--------|----------------------|----------|---------------|------|--------|----------------------|----------|----------------|
|   | 00   | 40     | 1                    | 10702117 | FNH00-40K-A   | -    | -      | -                    | -        | -              |
|   | 000  |        |                      | 13737107 | FNH000-40K-A  |      |        |                      |          |                |
|   | 00   |        |                      | 10701718 | FNH00-50K-A   |      |        |                      |          |                |
|   | 000  |        |                      | 13737128 | FNH000-50K-A  |      |        |                      |          |                |
|   | 00   |        |                      | 10705764 | FNH00-63K-A   |      |        |                      |          |                |
|   | 000  |        |                      | 13737129 | FNH000-63K-A  |      |        |                      |          |                |
|   | 00   |        |                      | 10705995 | FNH00-80K-A   |      |        |                      |          |                |
|   | 000  |        |                      | 13737130 | FNH000-80K-A  |      |        |                      |          |                |
|   | 00   |        |                      | 10707110 | FNH00-100K-A  |      |        |                      |          |                |
|   | 000  |        |                      | 13737131 | FNH000-100K-A |      |        |                      |          |                |
|   | 00   |        |                      | 10707110 | FNH00-100K-A  |      |        |                      |          |                |
|   | 000  |        |                      | 13737132 | FNH000-125K-A |      |        |                      |          |                |
|   | 00   |        |                      | 10707231 | FNH00-125K-A  |      |        |                      |          |                |
|   | 000  |        |                      | 13737132 | FNH000-125K-A |      |        |                      |          |                |
|   | 00   | 125    |                      | 10701724 | FNH00-160K-A  |      |        |                      |          |                |
|   | 00   | 160    |                      | 10710732 | FNH00-200K-A  |      |        |                      |          |                |
|   | 00   | 200    |                      | 10809489 | FNH1-250K-A   | 3    | 450    | 1                    | 12644962 | FNH3FEM-450Y-A |
| 1 | 250  |        |                      |          |               |      |        |                      |          |                |

## WEG aR Fuses Recommended for the Field Circuit of WEG CTW900 AC/DC Converter

| CTW900    |  | Fuses recommended to protect the field circuit |        |               |          | CTW900    |  | Fuses recommended to protect the field circuit |        |               |          |
|-----------|--|--|--------|---------------|----------|-----------|--|--|--------|---------------|----------|
| Model (A) | Maximum I <sub>2t</sub> of the fuse (A <sup>2</sup> s) | Recommended WEG aR fuses FNH blade contact     |        |               |          | Model (A) | Maximum I <sub>2t</sub> of the fuse (A <sup>2</sup> s) | Recommended WEG aR fuses FNH blade contact     |        |               |          |
|           |  | Size   | In (A) | WEG reference | SAP code |           |  | Size   | In (A) | WEG reference | SAP code |
| 435       | 20   | 00   | 20     | FNH00-20K-A   | 10687494 | 480       | 510  | 00   | 35     | FNH00-35K-A   | 10701721 |
|           |  | 000  |        | FNH000-20K-A  | 13735555 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   |        | FNH00-20K-A   | 10687494 |           |  | 00   |        | FNH00-35K-A   | 10701721 |
|           |  | 000  |        | FNH000-20K-A  | 13735555 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   |        | FNH00-20K-A   | 10687494 |           |  | 00   |        | FNH00-35K-A   | 10701721 |
|           |  | 000  |        | FNH000-20K-A  | 13735555 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   | 25     | FNH00-20K-A   | 10687494 |           |  | 000  |        | FNH000-35K-A  | 10701721 |
|           |  | 000  |        | FNH000-20K-A  | 13735555 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   |        | FNH00-20K-A   | 10687494 |           |  | 000  |        | FNH000-35K-A  | 10701721 |
|           |  | 000  |        | FNH000-20K-A  | 13735555 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   |        | FNH00-25K-A   | 10701722 |           |  | 000  |        | FNH000-35K-A  | 10701721 |
|           |  | 000  |        | FNH000-25K-A  | 13735656 |           |  | 000  |        | FNH000-35K-A  | 13737105 |
|           |  | 00   |        | FNH00-25K-A   | 10701722 |           |  | 000  |        | FNH000-35K-A  | 10701721 |
|           |  | 000  |        | FNH000-25K-A  | 13735656 |           |  | 000  |        | FNH000-35K-A  | 13737105 |

## Fuses recommended to protect the armature output circuit (for 4-Q converters)

| Recommended WEG aR fuses FNH blade contact |      |             |               |          | Recommended WEG aR fuses FNHFE flush-end |                 |        |               |          |
|--|------|-------------|---------------|----------|--|-----------------|--------|---------------|----------|
|  | Size | In (A)      | WEG reference | SAP code |  | Size            | In (A) | WEG reference | SAP code |
|  | 00   | 35          | FNH00-35K-A   | 10701721 |  |                 |        |               |          |
|  | 000  | 35          | FNH000-35K-A  | 13737105 |  |                 |        |               |          |
|  | 00   | 63          | FNH00-63K-A   | 10705764 |  |                 |        |               |          |
|  | 000  | 80          | FNH000-80K-A  | 13737130 |  |                 |        |               |          |
|  | 00   | 125         | FNH00-125K-A  | 10707231 |  |                 |        |               |          |
|  | 1    | 200         | FNH1-200K-A   | 10809133 |  |                 |        |               |          |
|  | 3    | 315         | FNH1-315K-A   | 10809575 |  |                 |        |               |          |
|  | 3    | 400         | FNH3-400K-A   | 10831217 |  |                 |        |               |          |
|  | 710  | FNH3-710K-A | 10833591      |          | 630                                      | FNH3FEM-630Y-A  |        | 12660583      |          |
|  | -    | -           | -             | -        | 800                                      | FNH3FEM-800Y-A  |        | 12661660      |          |
|  | -    | -           | -             | -        | 1,100                                    | FNH3FEM-1100Y-A |        | 12661664      |          |

Circuit breaker to protect the circuit. WEG fuses used in the product



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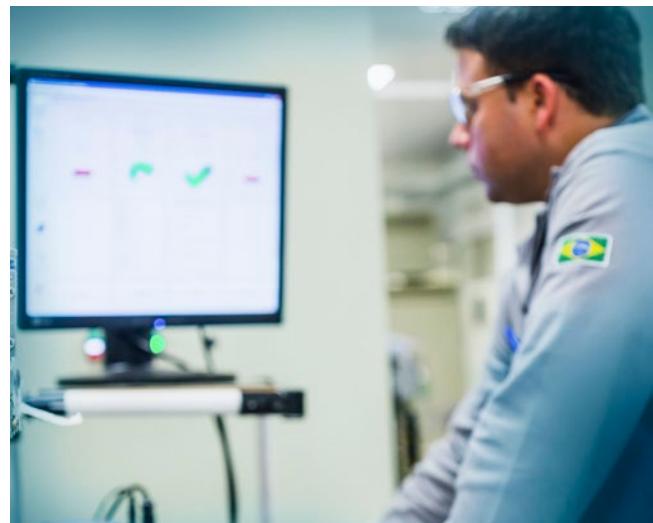
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