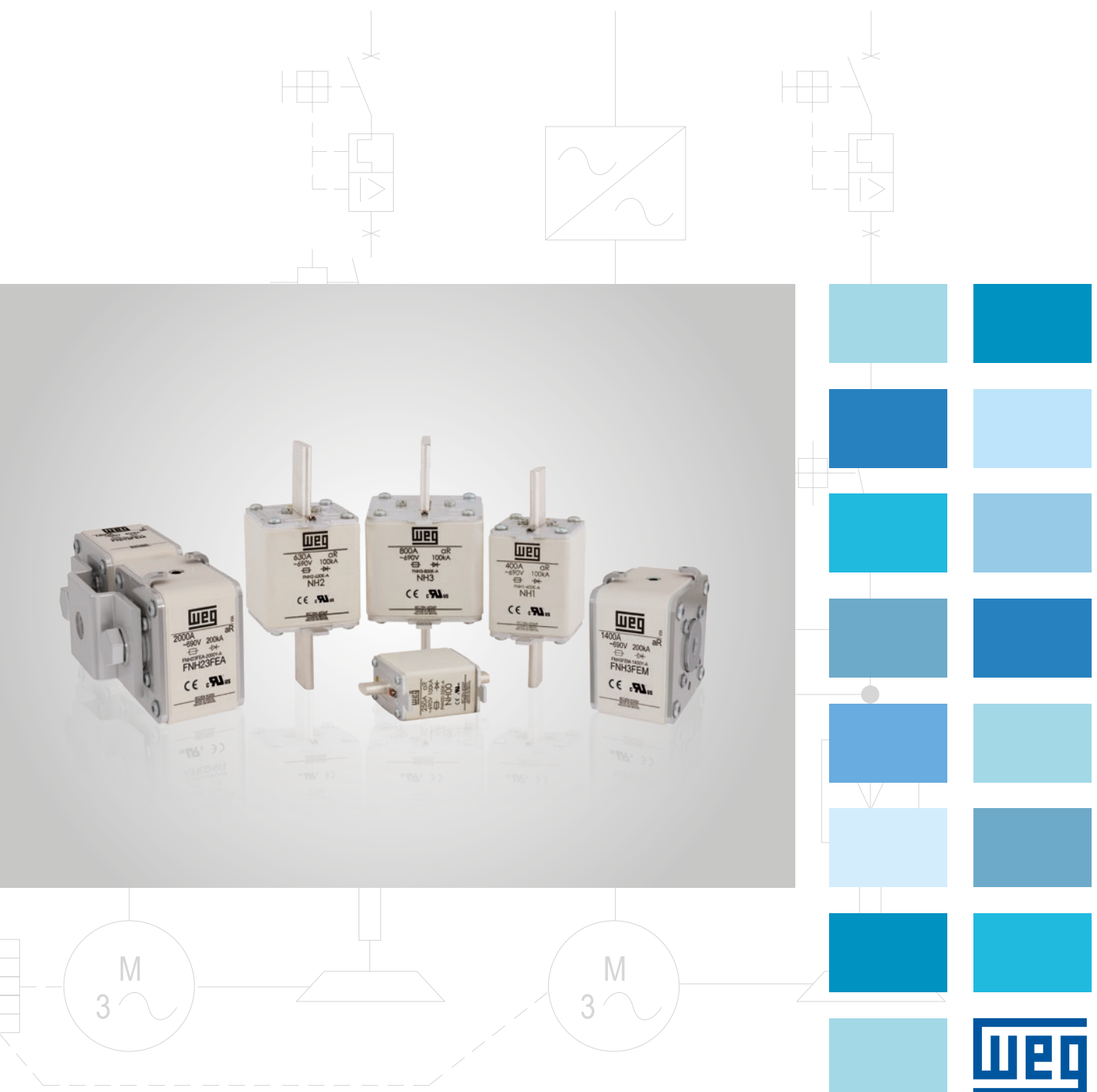


Automation

aR NH Blade Contact and NH Flush-End Fuses





aR NH Blade Contact and NH Flush-End Fuses

Summary



aR Fuses

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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

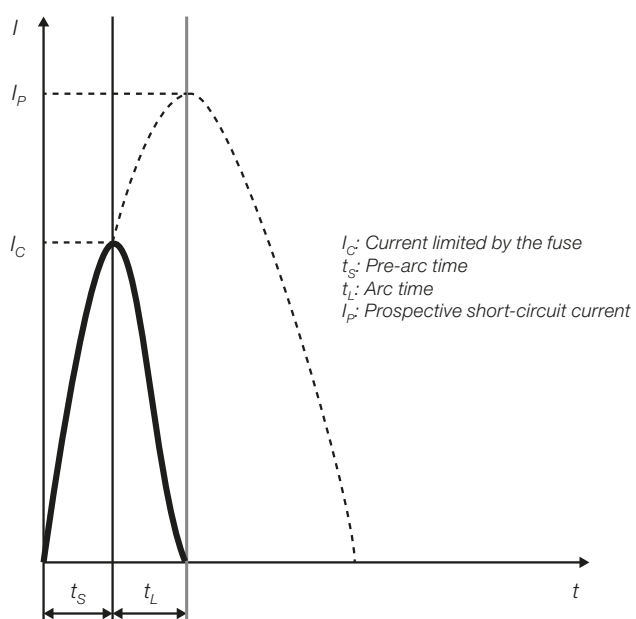
Fuse type	Maximum operating voltage	Breaking capacity	Current (I_n)	Sizes	Compliance standards
aR class high speed NH blade contact	690 V ac	100 kA / 690 V ac	20 to 1,000 A	000, 00, 1, 2 and 3	IEC 60269-4 UL 248-13
aR class high speed NH flush-end type	690 V ac	200 kA / 690 V ac	450 to 2,000 A	3 and 23	IEC 60269-4 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 I²t values.

FNH000

Size	Description	Characteristics						
		Operating voltage (V ac)	Breaking capacity (kA)	Current range (A)	I ² t pre-arc (A ² s)	I ² t arc at 690 V (A ² s)	Dissipated power (W) 0.8 In(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

	Technical characteristics						Code
	Reference	Size	Current (A)	Pt - pre-arc	Pt total - arc	Dissipated power (W) 0.8I _n	
				690 V ac (A²s)			
	FNH00-20K-A	00	20	16	240	3.2	10687494
	FNH00-25K-A		25	19	255	3.5	10701722
	FNH00-35K-A		35	23	430	5	10701721
	FNH00-40K-A		40	56	580	7	10702117
	FNH00-50K-A		50	130	1,430	9	10701718
	FNH00-63K-A		63	180	2,170	10.5	10705764
	FNH00-80K-A		80	270	2,710	13.5	10705995
	FNH00-100K-A		100	400	4,530	14	10707110
	FNH00-125K-A		125	810	6,350	16.5	10707231
	FNH00-160K-A		160	2,100	15,270	22.5	10701724
	FNH00-200K-A		200	2,900	25,870	26.5	10710732
	FNH00-250K-A		250	6,200	43,980	30.5	10711445
	FNH1-63K-A	1	63	63	770	15	10806688
	FNH1-80K-A		80	175	1,610	19	10807549
	FNH1-100K-A		100	320	3,050	21	10807553
	FNH1-125K-A		125	695	6,360	25	10807554
	FNH1-160K-A		160	1,460	13,090	29.5	10808545
	FNH1-200K-A		200	2,420	16,380	34.5	10809133
	FNH1-250K-A		250	4,920	29,810	40.5	10809489
	FNH1-315K-A		315	7,310	39,590	48	10809575
	FNH1-350K-A		350	11,430	64,870	52	10814896
	FNH1-400K-A		400	16,950	98,860	59	10815073
	FNH2-250K-A	2	250	3,390	24,370	45.5	10823581
	FNH2-315K-A		315	4,760	32,780	57.5	10823936
	FNH2-350K-A		350	7,990	60,150	66.5	10823996
	FNH2-400K-A		400	14,850	92,060	77	10824053
	FNH2-450K-A		450	18,420	132,990	91	10824055
	FNH2-500K-A		500	23,040	146,250	103	10824109
	FNH2-630K-A		630	49,130	298,820	127	10824110
	FNH2-710K-A		710	57,910	378,450	137.5	11393547
	FNH3-400K-A	3	400	6,520	66,830	70	10831217
	FNH3-450K-A		450	15,090	105,220	74.5	10832962
	FNH3-500K-A		500	18,770	107,200	79.5	10833056
	FNH3-630K-A		630	32,500	222,540	94	10833101
	FNH3-710K-A		710	56,620	308,900	105	10833591
	FNH3-800K-A		800	87,390	420,500	117	10833726
	FNH3-900K-A		900	129,380	636,150	130	11393564
	FNH3-1000K-A		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 _{pt} 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_{pt} 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

PDNH00



PDNH1
PDNH2
PDNH3

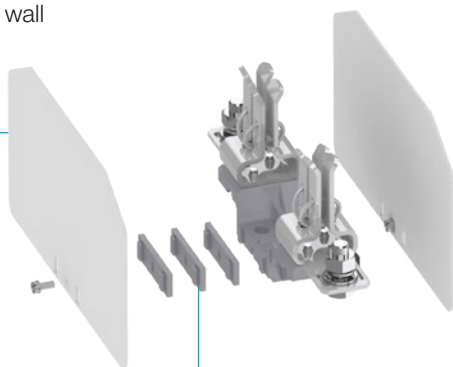
Reference	Fuse size	Code
PDNH00	000 and 00	10185940
PDNH1	1	10185941
PDNH2	2	10185942
PDNH3	3	10185943

Bases Assembly Partition Walls

FNH1 / FNH2 / FNH3

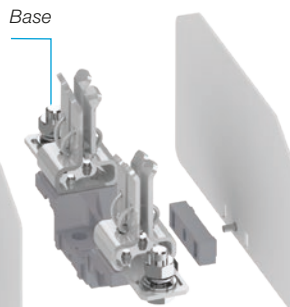
- PDNH1: FNH1 mounting without spacer
- PDNH2: FNH2 assembly with one spacer
- PDNH3: FNH3 assembly with three spacers/partition insulating wall

Partition wall

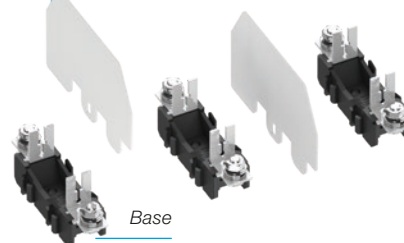


Spacers

Base



Partition 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.



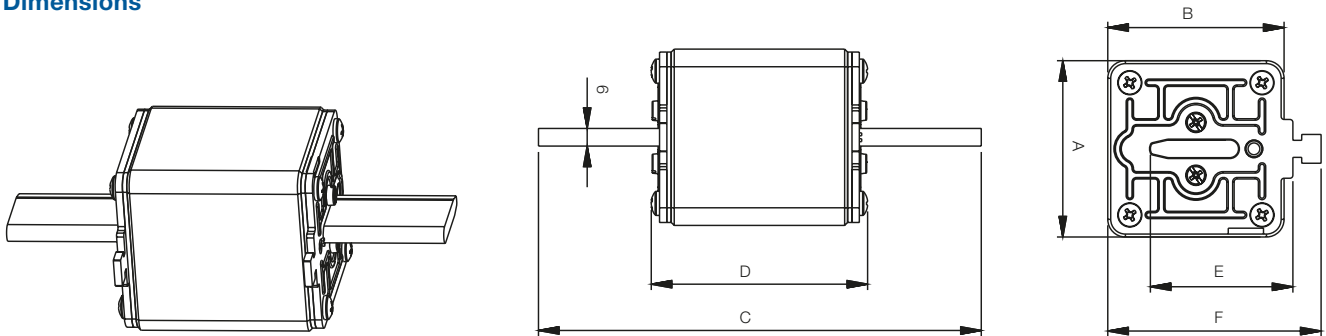
Accessories

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

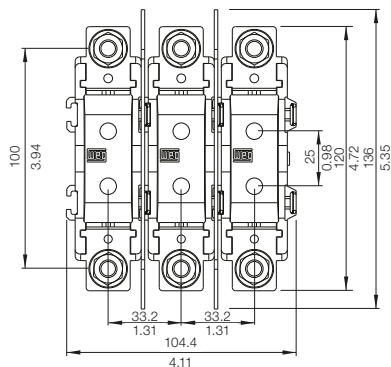


aR Class Fuses - NH Blade Contact Type

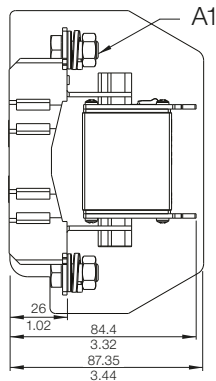
Dimensions

Base for BNH Fuse and PDNH Partition Walls

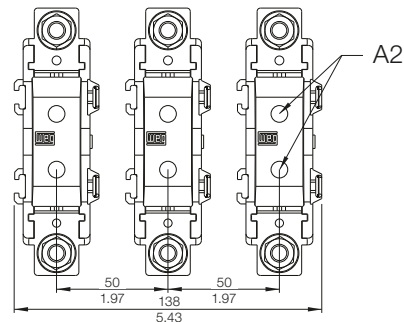
BNH00 + FNH00 + PDNH00
BNH00 + FNH000 + PDNH00



BNH00 + FNH00 + PDNH00
BNH00 + FNH000 + PDNH00

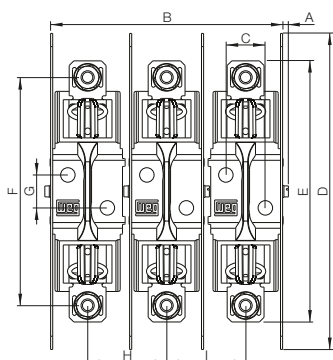


BNH00

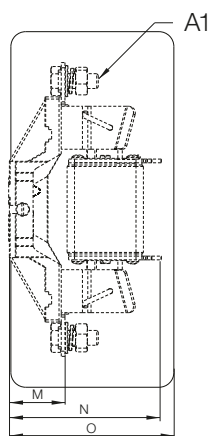


It is essential to keep always 25 mm between the live parts of the fuses and surrounding equipment.

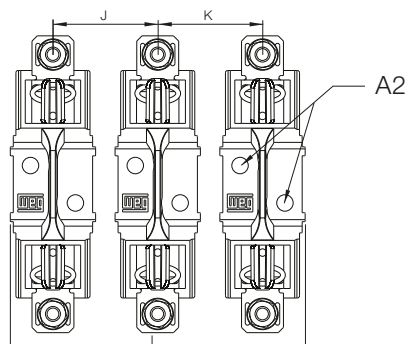
BNH1 + PDNH1
BNH2 + PDNH2
BNH3 + PDNH3



BNH1 + FNH1 + PDNH1
BNH2 + FNH2 + PDNH2
BNH3 + FNH3 + PDNH3



BNH1
BNH2
BNH3



A1			N.M lb.in
BNH00	M8		10 88
BNH1	M10		21 185
BNH2	M10		21 185
BNH3	M12		38 336

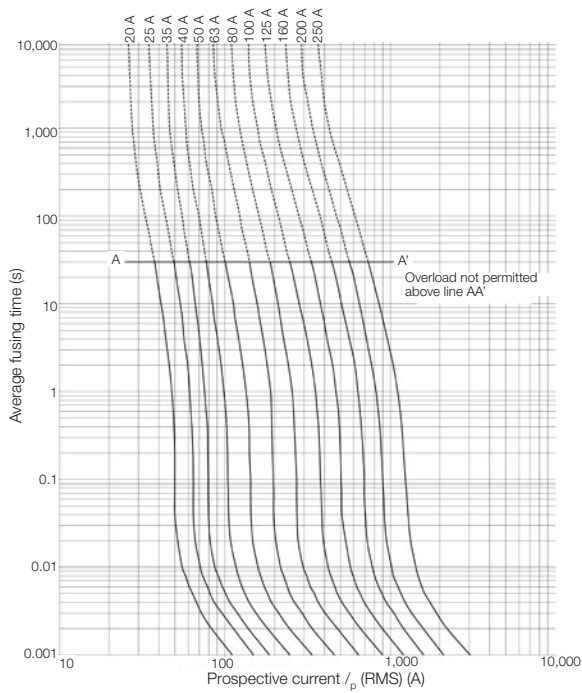
A2			N.M lb.in
BNH00	M6		5 44
BNH1	M8		10 88
BNH2	M8		
BNH3	M8		

mm in	BNH1 + FNH1	+ BNH1 + FNH1 PDNH1	BNH2 + FNH2	BNH2 + FNH2 + PDNH2	BNH3 + FNH3	BNH3 + FNH3 + PDNH3
A	3.5 0.14		3.5 0.14		3.5 0.14	
B	-	180 7.09	-	200.2 7.88	-	245 9.65
C	30 1.18					
D	240 9.45					
E	198.3 7.81		225 8.86		240 9.45	
F	173.3 6.82		200 7.87		210 8.27	
G	25 0.98					
H	-	60 2.36	-	70 2.76	-	85 3.35
I						
J	70 2.76	-	80 3.15	-	95 3.74	-
K						
L	197 7.76	-	217 8.54	-	261 10.28	-
M	38 1.50		38.5 1.52		39 1.54	
N	102 4.02		111.5 4.39		112 4.41	
O	111.5 4.39		115.5 4.55		132.8 5.23	

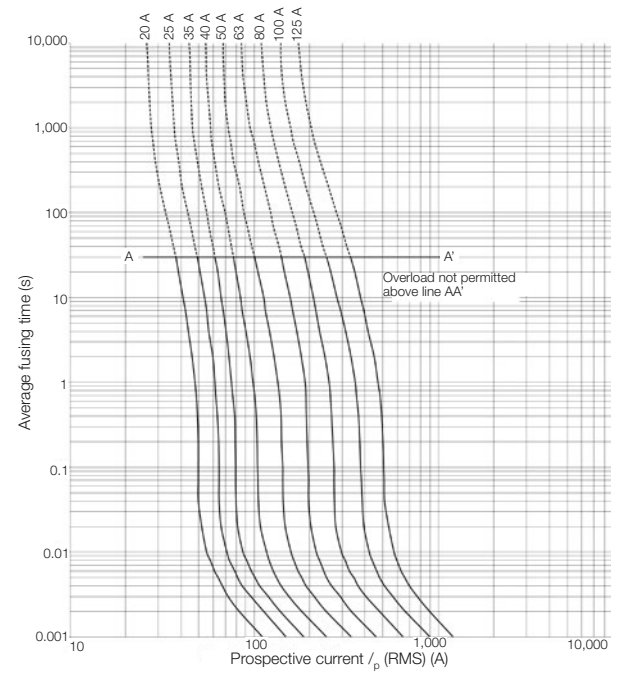
Time x Current Curves

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.

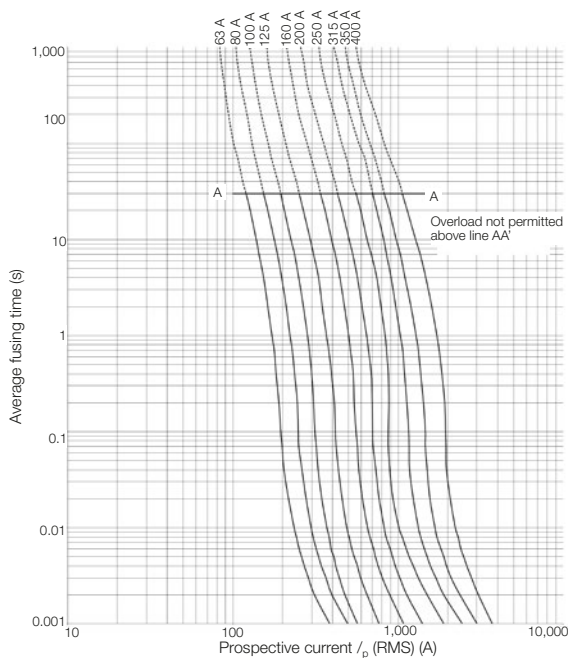
FNH00 aR Fuses



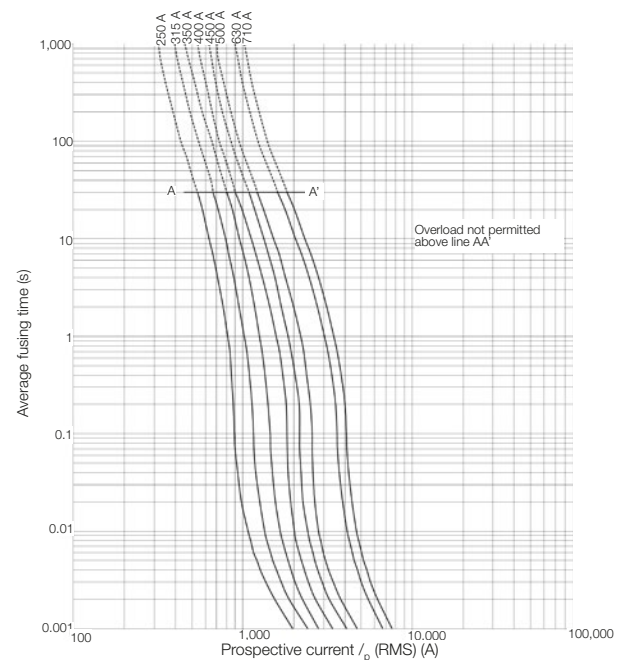
FNH000 aR Fuses



FNH1 aR Fuses



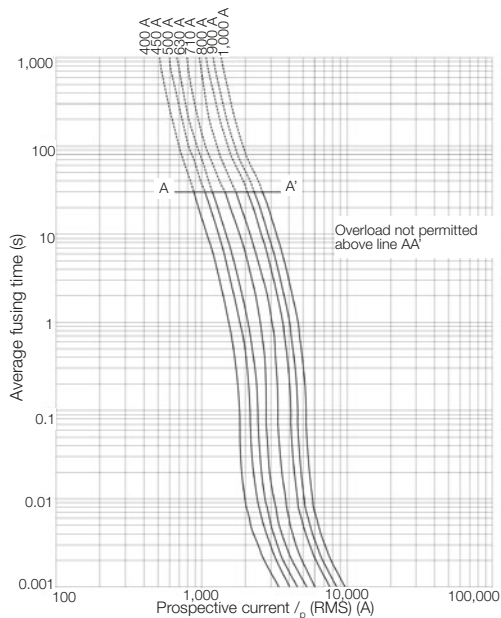
FNH2 aR Fuses



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.

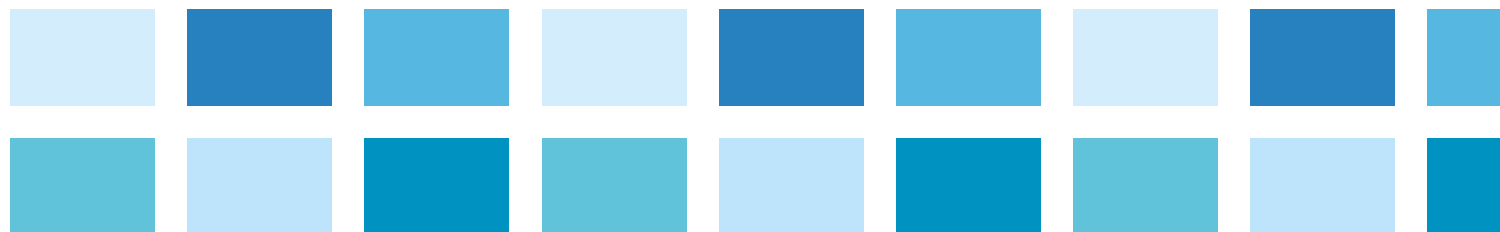
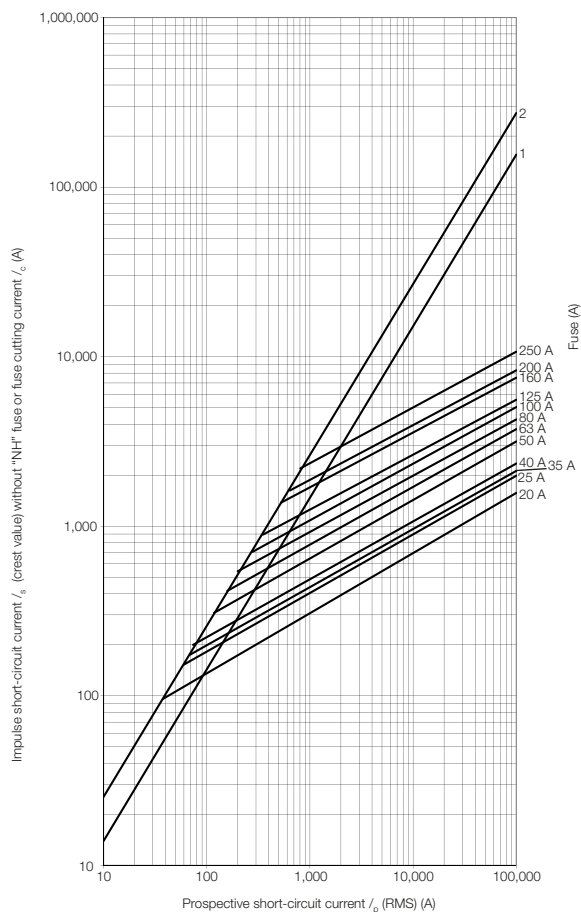
FNH00 aR Fuses

1 - Symmetric short-circuit current

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

2 - Asymmetric short-circuit current

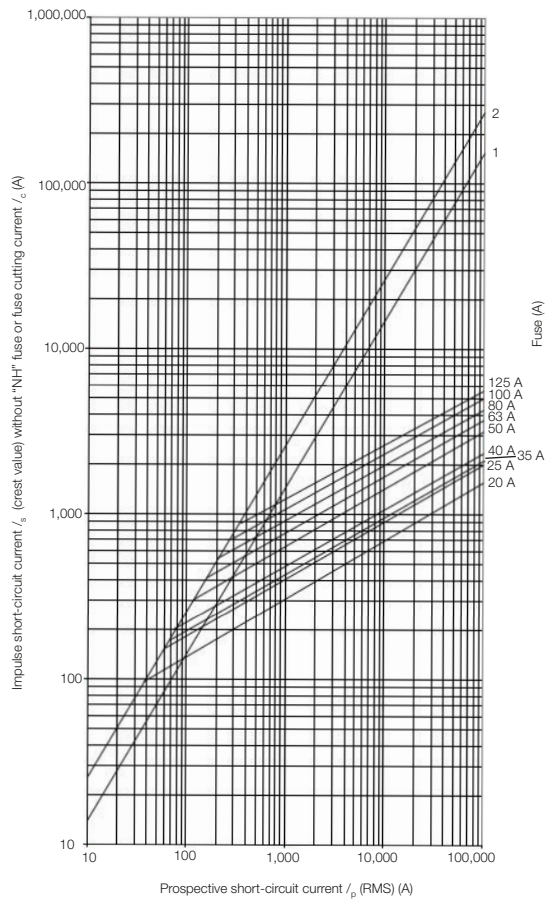
$$I_c = 2.5 I_p$$



Current Limitation Curve

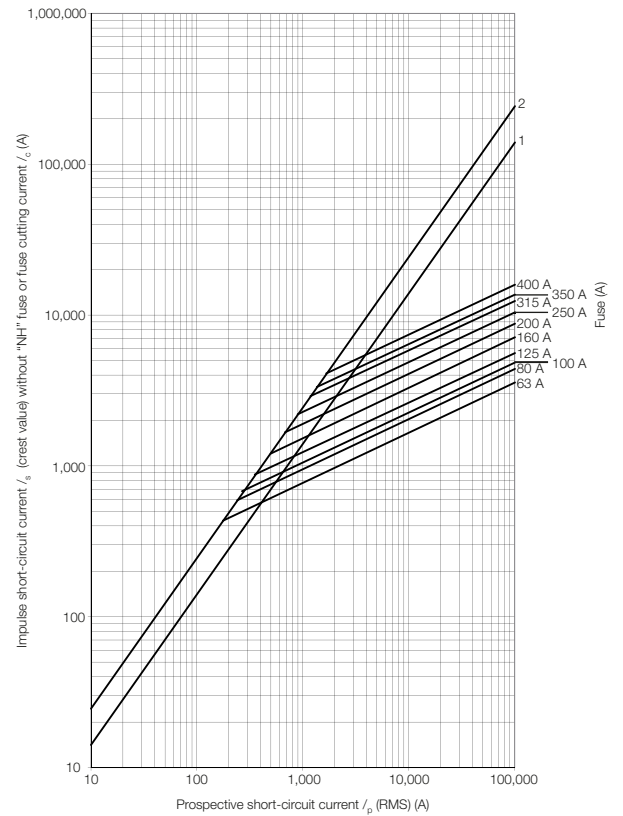
FNH000 aR Fuses

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



FNH1 aR Fuse

- 1 - Symmetric short-circuit current $I_c = \sqrt{2} I_p$
- 2 - Asymmetric short-circuit current $I_c = 2,5 I_p$



aR Class Fuses - NH Blade Contact Type

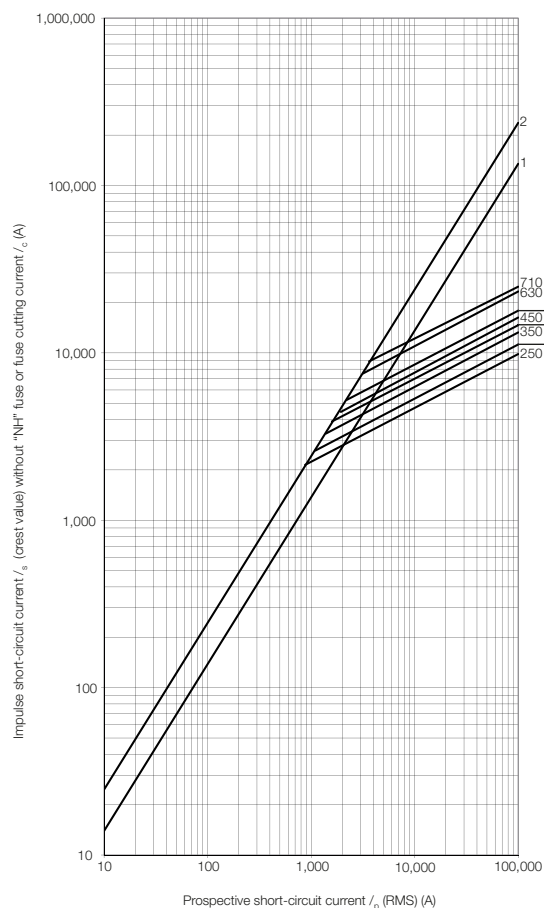
Current Limitation Curve

FNH2 aR Fuse

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

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

$$I_c = 2,5 I_p$$

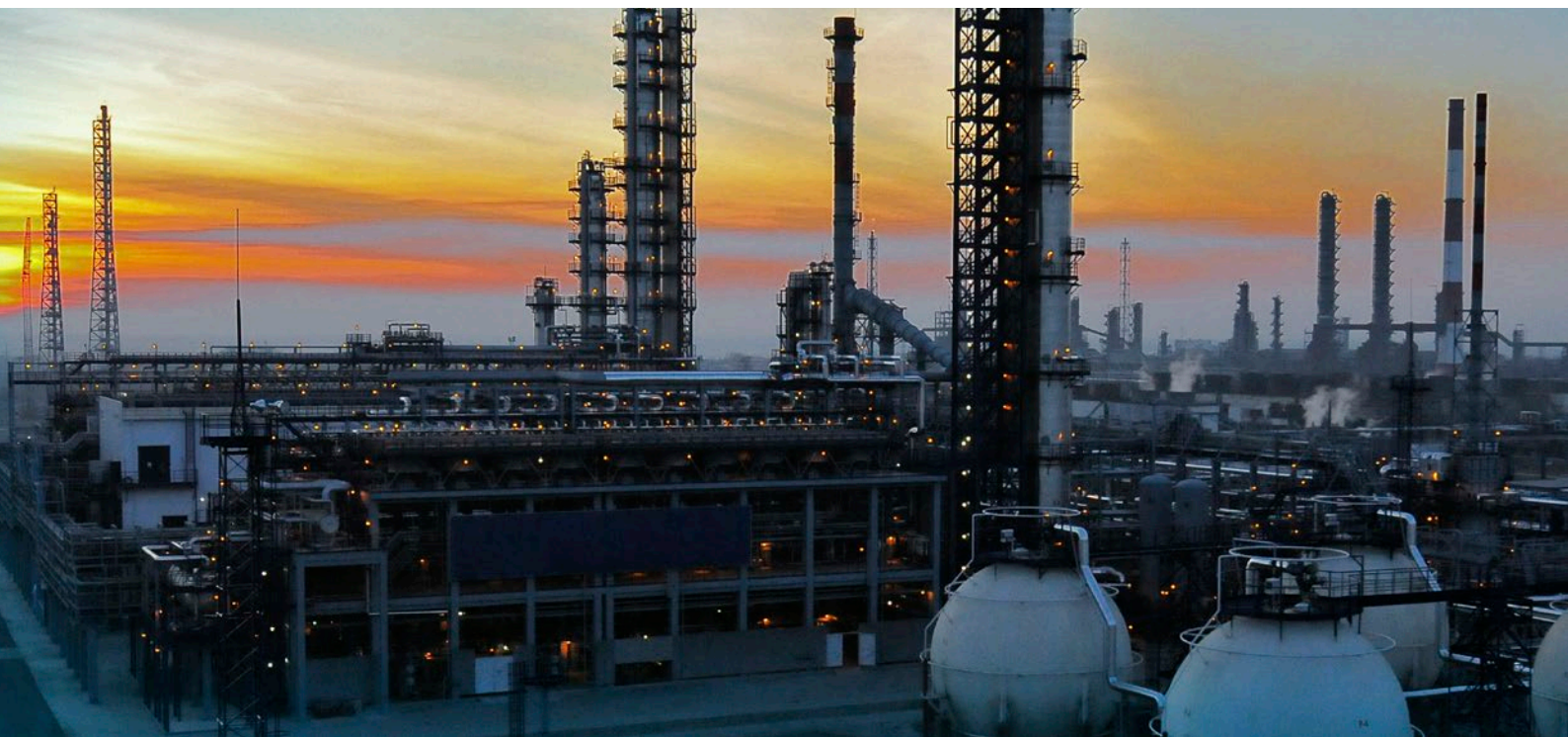
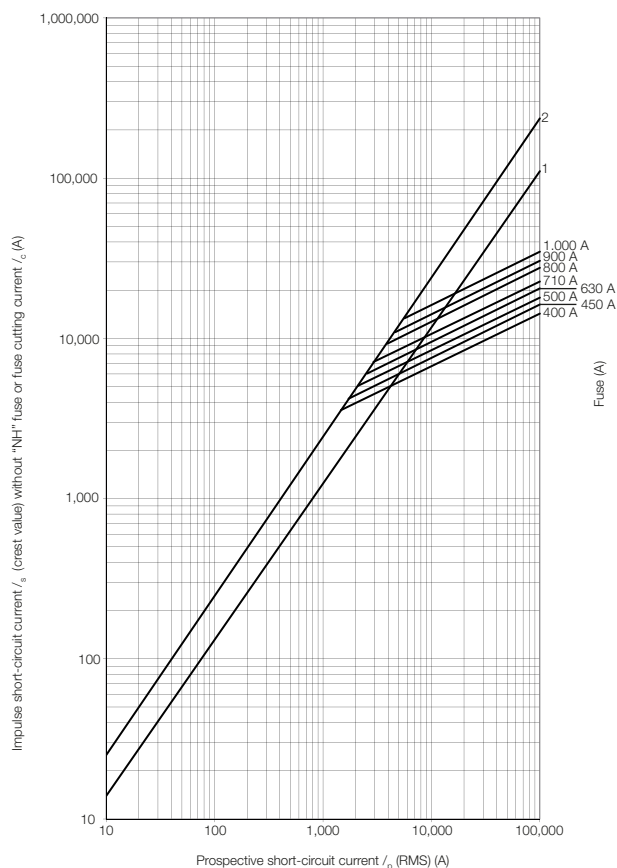


FNH3 aR Fuse

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

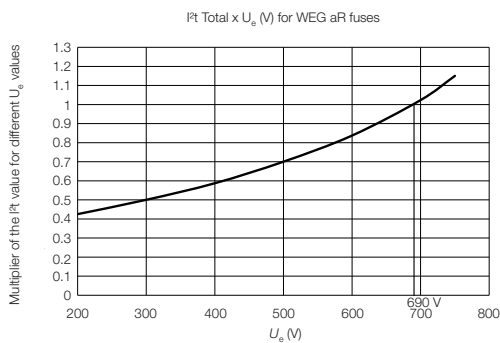
$$I_c = \sqrt{2} I_p$$

$$I_c = 2,5 I_p$$



Total I²t Variation x Applied Voltage

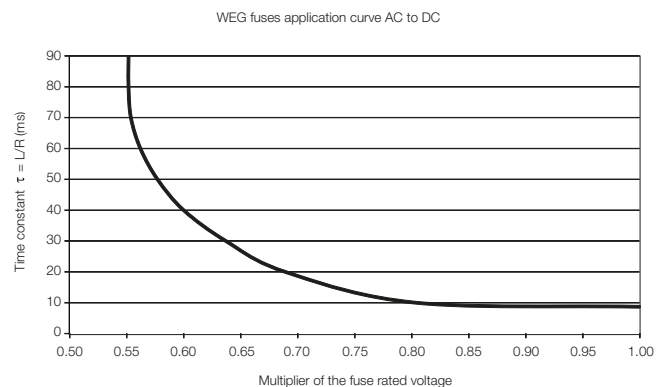
The presented I²t values refer to 690 V ac. For other voltages, the I²t varies according to the chart below.



New I²t total according to the applied voltage
= multiplier x I²t total of the fuse

Application in DC Voltage - Definition of the DC Fuse Voltage

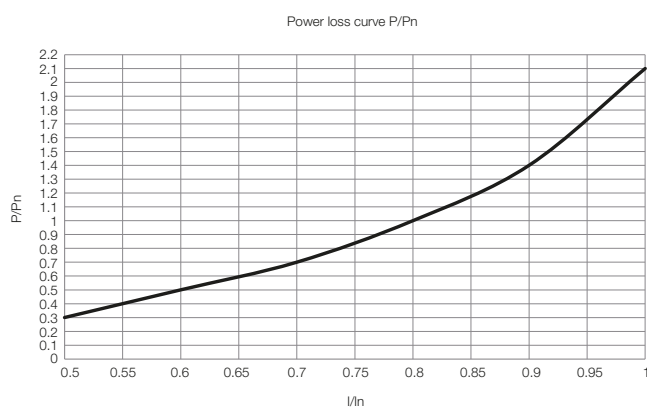
The curve indicates the rated voltage multiplier factor V ac of the fuse in order to obtain the maximum value of V dc voltage for different values of time constants L/R (rms) of the circuit.



V dc = "multiplier" x 690 V ac

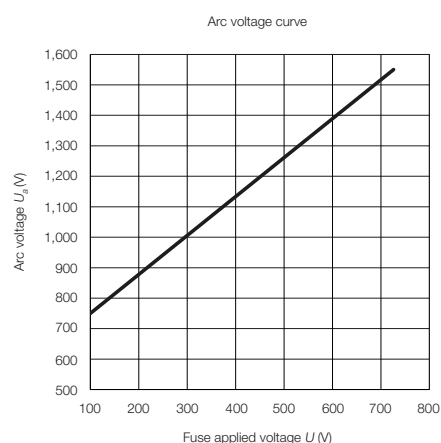
Coefficient for Power Loss

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 (10409904)	1.00	FSW100-3 11884107	1.00	RFW100-3 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 (10409904)	1.00	FSW160-3 (11884182)	1.00	RFW160-3 (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 (10409905)	0.95	FSW250-3 (11884179)	0.95	RFW250-3 (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 (10185938)	0.80	FSW400-3 (11884180)	0.80	RFW400-3 (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	3	710	0.70	BNH3-630 (10185939)	0.55	FSW630-3 (11884181)	0.55	RFW630-3 (11884103)
FNH3-400K-A		400	0.80		0.75		0.75	
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.

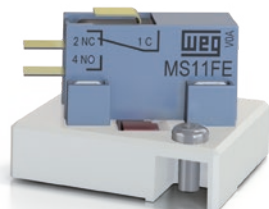
200 kA / 690 V ac

Technical characteristics of the aR FNH flush-end fuses						
Reference	Size	Current I _n (A)	I ² t pre-arc (A ² s)	I ² t arc (A ² s)	Dissipated power (W) 1xI _n	Code
			660 V ac (A ² 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

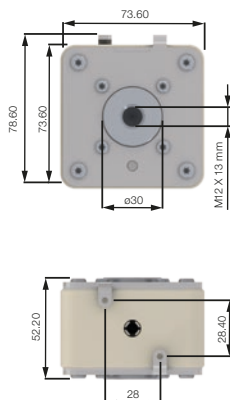


Technical characteristics MS11FE			
Auxiliary contacts		1NC and 1NO	
Rated voltage (U _p)		250 V ac	
Rated current (I _e)		15 A	
WEG MS11FE microswitch technical data			
Breaking capacity	Resistive load	250 V ac @ 50/60 Hz	15 A
		8 V dc	15 A
		30 V dc	10 A
		125 V dc	0.6 A
		250 V dc	0.3 A
	Inductive load ¹⁾	250 V ac @ 50/60 Hz	10 A
		8 V dc	10 A
		30 V dc	10 A
		125 V dc	0.6 A
		250 V dc	0.3 A
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

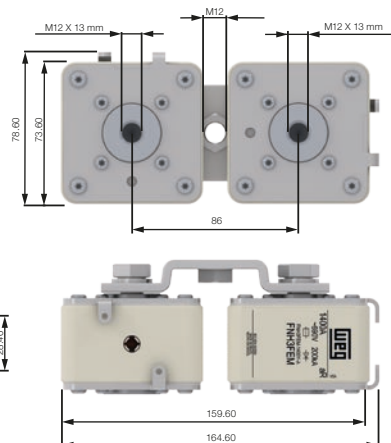


Mass: 820 g

FNH23FEA



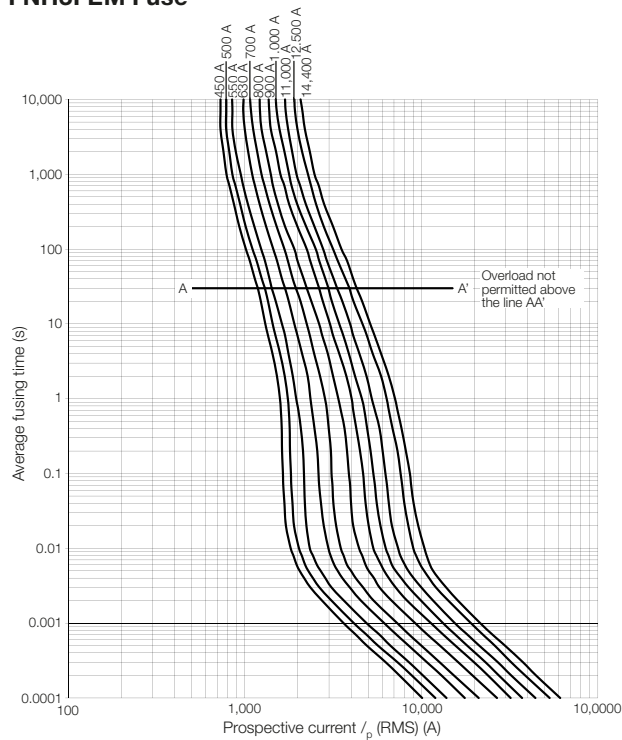
Mass: 1,970 g



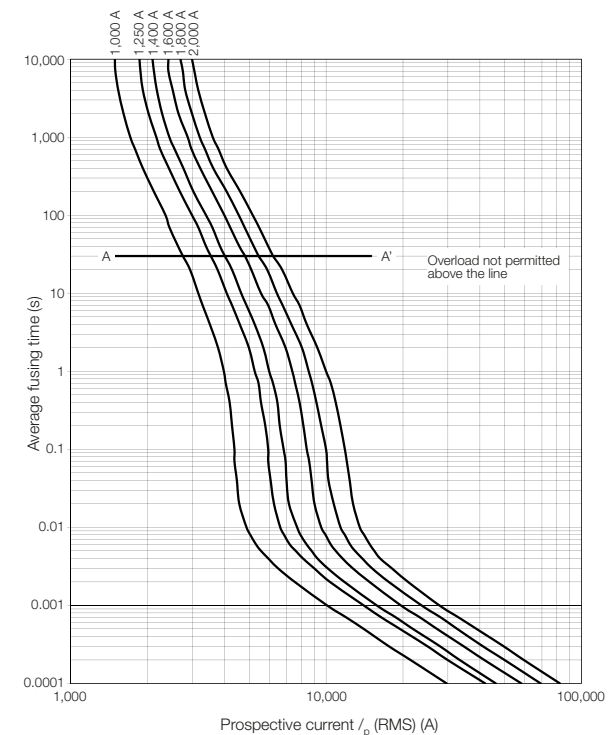
Time x Current Curves

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

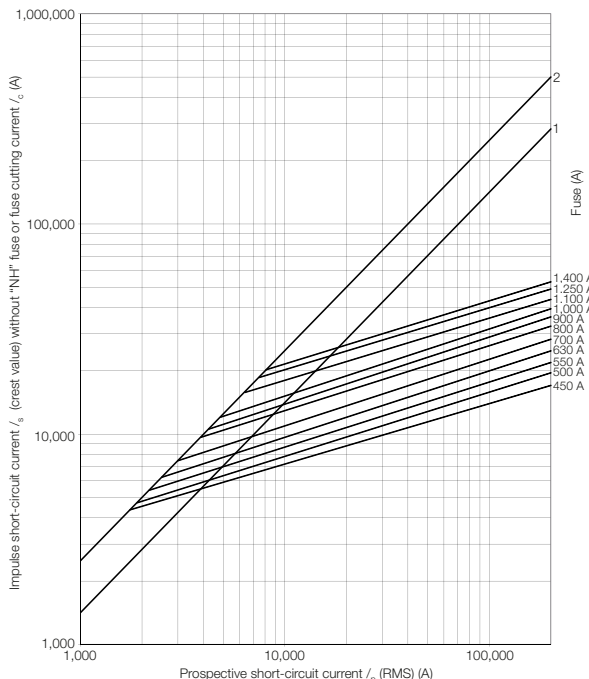
The current limitation curves show the maximum current peak during a short-circuit in relation to the RMS value of the prospective short-circuit current.

FNH3FEM Fuse

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

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

$$I_c = 2,5 I_p$$

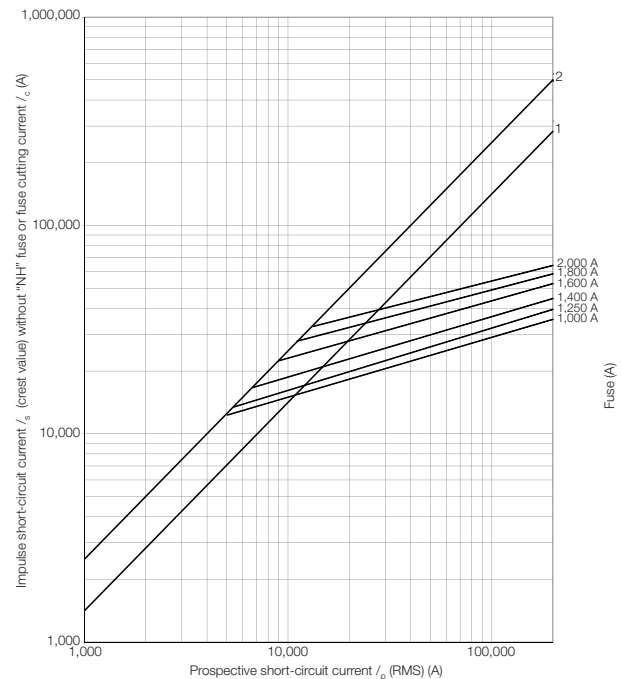


FNH23FEA Fuse

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

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

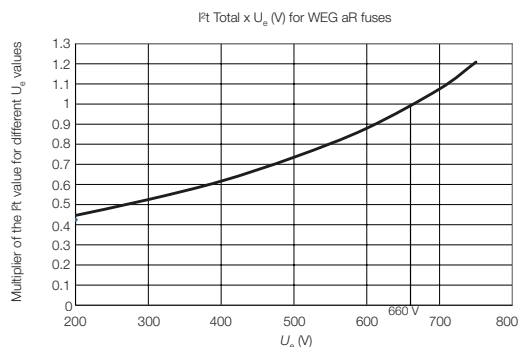
$$I_c = 2,5 I_p$$



aR Class Fuses - NH Flush-End Type

Total I²t Variation x Applied Voltage

The presented I²t values refer to 690 V ac. For other voltages, the I²t reduces according to the chart below.

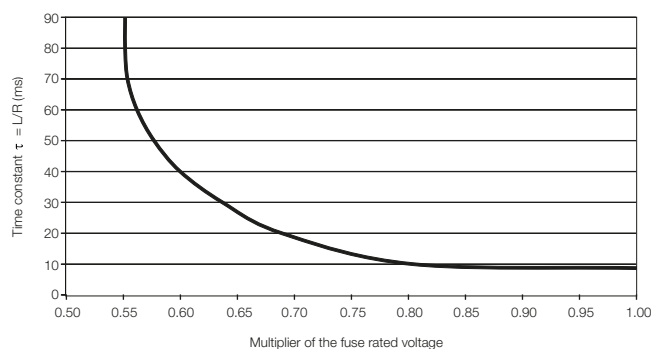


Application in DC Voltage - Definition of the DC Fuse Voltage

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.

$$V_{dc} = \text{"multiplier"} \times 690 \text{ V ac}$$

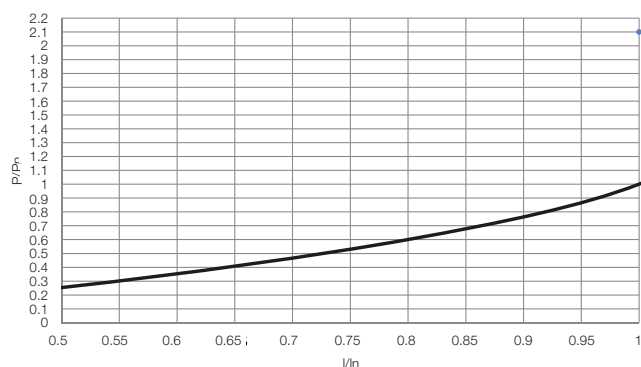
WEG Fuses Application Curve AC to DC



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.

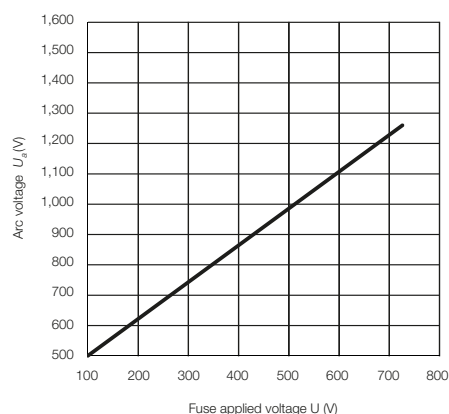
Power Loss Curve P/P_n



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.

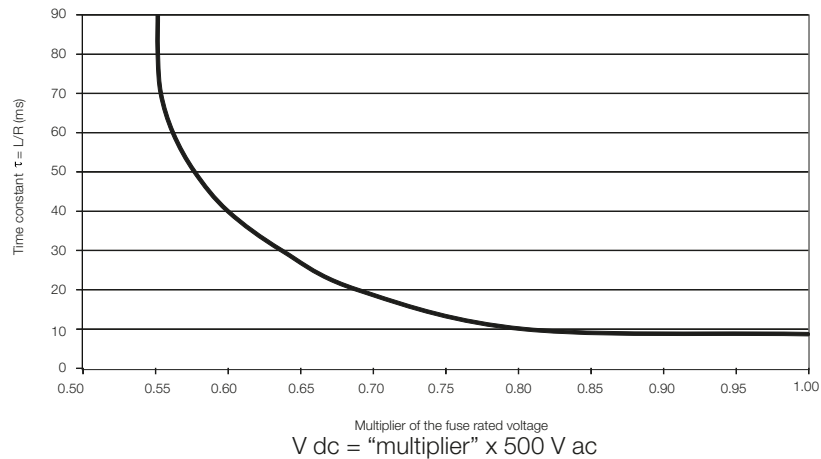
Arc Voltage Curve



Application in DC Voltage - Definition of the DC Fuse Voltage

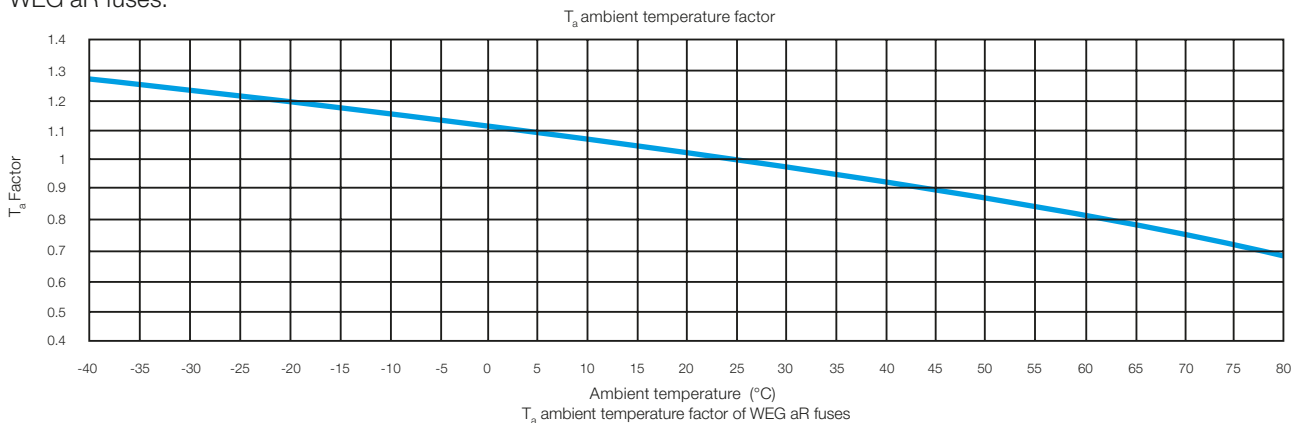
The curve indicates the fuse V ac rated voltage multiplier to obtain the maximum V dc voltage, considering different time constants L/R (rms) of the circuit.

WEG Fuses Application Curve AC to DC



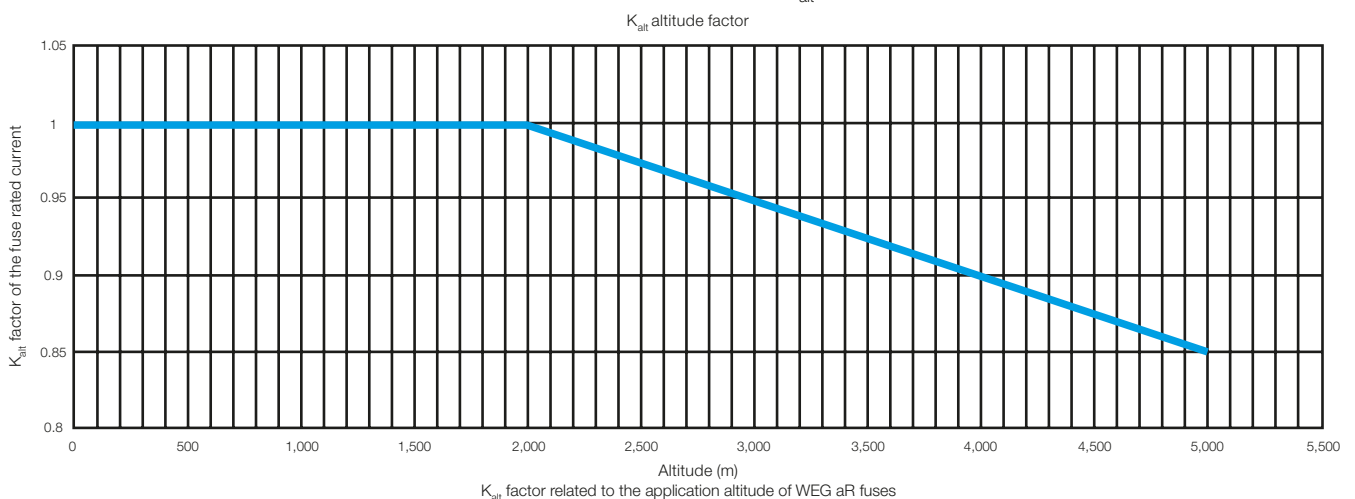
Ambient Temperature

WEG aR fuses are sized to operate in environments at 25 ± 5 °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 ¹⁾
	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 load 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:

$I^2t// = I^2t \times n^2$, where:

$I^2t//$ - 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-Starter (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 A²s
- Supply voltage: Y 690 V ac
- Load rated current in continuous operation: $I_n = 100$ A
- Starting current: $I_p = 3 \times I_n = 300$ 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, $A_1 = 0.8$

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

Therefore, considering only the constant load operation, a WEG fuse size 00 of **125 A** should be used for each phase, presenting $I^2t = 6,350$ A²s at 690 V and derating factor of $1 \times I_n$, and $0.85 \times I_n$ 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 (300×2). For WEG aR fuses sizes 1, 2 and 3, the fuse fusion current in 30 s must be at least 750 A (300×2.5). 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 A²s ($0.58 \times 43,980$).

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**.

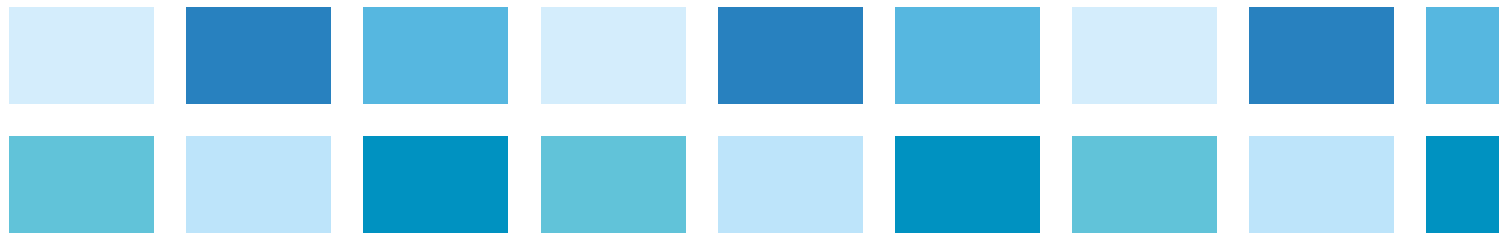


Appendix 2: aR Fuses Sizing Tables to Protect SSW Soft-Starters and CFW Inverters

Criteria used to size aR fuses of the tables below:

- Voltage considered to size the I²t:
 - 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 I²t of the fuse = 0.75 x I²t indicated in the CFW or SSW manual.

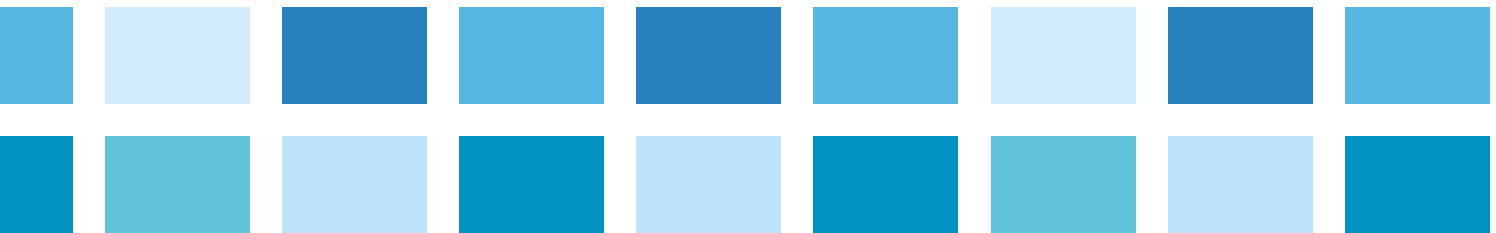
Note: rev. 19





WEG aR Fuses Recommended for WEG SSW05 Plus Soft-Starters

Model	Maximum I²t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end					
SSW05 Plus (A)	(A²s)	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		00	35		10701721	FNH00-35K-A						
		000			13737105	FNH000-35K-A						
16		00	40		10702117	FNH00-40K-A						
		000			13737107	FNH000-40K-A						
23	3,200	00	63		10705764	FNH00-63K-A						
		000			13737129	FNH000-63K-A						
30		00	80		10705995	FNH00-80K-A						
		000			13737130	FNH000-80K-A						
45		7,280	00		125	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 ² t do SCR	Maximum Pt 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)	(kA²s)	(kA²s)	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	-	-	-	-	-					
			000	35		13737105	FNH000-35K-A										
16			00	40		10702117	FNH00-40K-A										
			000			13737107	FNH000-40K-A										
23	4	3.0	00	80		10705995	FNH00-80K-A										
			000			13737130	FNH000-80K-A										
00			125	10707231		FNH00-125K-A											
30			000	100		13737131	FNH000-100K-A										
	45	10	7.5	00		125	10707231						FNH00-125K-A				
000						13737132	FNH000-125K-A										
60	15	11.25	00	160		10701724	FNH00-160K-A						3	450	1	12644962	FNH3FEM-450Y-A
85	80	60		250		10711445	FNH00-250K-A										
130	84	63	1	400		10815073	FNH1-400K-A										
170	245	184	2	630		10824110	FNH2-630K-A										
205	320	240		10824110		FNH2-630K-A											
255	238	179	3	710		10833591	FNH3-710K-A	500	12645317	FNH3FEM-500Y-A							
312						10833591	FNH3-710K-A	550	12660187								
365						320	240	10833591	FNH3-710K-A	630	12660583	FNH3FEM-630Y-A					
412	1,452	1,089					1,000	11393565	FNH3-1000K-A	700	12660657	FNH3FEM-700Y-A					
480	4,250	3,188	2	630	2	10824110	FNH2-630K-A	800	12661660	FNH3FEM-800Y-A							
604				710		11393547	FNH2-710K-A	900	12661662	FNH3FEM-900Y-A							
670			3	800		10833726	FNH3-800K-A	1,000	12661663	FNH3FEM-1000Y-A							
820				900		11393564	FNH3-900K-A	1,400	12661666	FNH3FEM-1400Y-A							
950	14,000	10,500		1,000		11393565	FNH3-1000K-A	23	1,600	1	12661689	FNH23FEA-1600Y-A					
1,100			2	710	11393547	FNH2-710K-A	1,800		12661690		FNH23FEA-1800Y-A						
1,400	15,125	11,344	3	900	3	11393564	FNH3-900K-A	3	1,250	2	12661665	FNH3FEM-1250Y-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 ² t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
SSW07 (A)	(A ² s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference	Size	In (A)	Quantity in parallel	SAP code	WEG reference
17	570	00	40	1	10702117	FNH00-40K-A	-	-	-	-	-
		000				13737107					
24		00	80		10705995	FNH00-80K-A					
	000	13737130			FNH000-80K-A						
30	00	100	10707110		FNH00-100K-A						
	000	80	13737130		FNH000-80K-A						
45	6,400	00	125		10707231	FNH00-125K-A					
		000	125		13737132	FNH000-125K-A					
61		8,400	00		160	10701724					
85	40,900	00	250		10711445	FNH00-250K-A					
130	77,600	1	400		10815073	FNH1-400K-A	3	450	1	12644962	FNH3FEM-450Y-A
171	134,000	2	500		10824109	FNH2-500K-A					
200	196,000		630		10824110	FNH2-630K-A					
255	72,500	3	500		10833056	FNH3-500K-A				12645317	FNH3FEM-500Y-A
312	190,000		710		10833591	FNH3-710K-A				12660187	FNH3FEM-550Y-A
365										12660583	FNH3FEM-630Y-A
412	256,000	3	500	2	10833056	FNH3-500K-A				700	12660657

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					
3	500		10833056	FNH3-500K-A					
	710	10833591	FNH3-710K-A	3	550	1	12660187	FNH3FEM-550Y-A	
3	400	2	10831217		FNH3-400K-A		630	12660583	FNH3FEM-630Y-A
2	315	3	10823936		FNH2-315K-A		700	12660657	FNH3FEM-700Y-A
3	500	2	10833056		FNH3-500K-A		900	12661662	FNH3FEM-900Y-A
	710		10833591		FNH3-710K-A		1,000	12661663	FNH3FEM-1000Y-A
	1,000		11393565		FNH3-1000K-A		1,100	12661664	FNH3FEM-1100Y-A
	800	3	10833726		FNH3-800K-A		1,250	12661665	FNH3FEM-1250Y-A
3	800	3	10833726	FNH3-800K-A	23	1,600	1	12661689	FNH23FEA-1600Y-A
	900		11393564	FNH3-900K-A		1,800		12661690	FNH23FEA-1800Y-A
	1,000		4	11393565		FNH3-1000K-A	1,100	2	12661664
		1,250					12661665		FNH3FEM-1250Y-A
				1,400	12661666	FNH3FEM-1400Y-A			
				1,250	3	12661665	FNH3FEM-1250Y-A		

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

Model	I _{pt} do SCR	WEG aR fuses recommended for motor inside delta connection										
		The fuse stays OUT of the delta										
		FNH aR blade contact					FNHFE aR flush-end					
SSW900 (A)	(A²s)	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	4,000											
30												
45	8,000											
61	10,500											
85	51,200											
105	125,000											
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		900		12661662	FNH3FEM-900Y-A	
365		3	800		10833726	FNH3-800K-A		1,100		12661664	FNH3FEM-1100Y-A	
412	320,000		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

WEG aR fuses recommended for standard connection																
Model	I _t do SCR	FNH aR blade contact					FNHFE aR flush-end									
SSW900 (A)	(A²s)	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	-	-	-	-	-					
		000	35		13737105	FNH000-35K-A										
17		00	40		10702117	FNH00-40K-A										
		000	40		13737107	FNH000-40K-A										
24	4,000	00	80		10705995	FNH00-80K-A										
		000	80		13737130	FNH000-80K-A										
30		00	100		10707110	FNH00-100K-A										
		000	100		13737131	FNH000-100K-A										
45	8,000	00	125		10707231	FNH00-125K-A										
		000	125		13737132	FNH000-125K-A										
61	10,500	00	160		10701724	FNH00-160K-A						3	450	1	12644962	FNH3FEM-450Y-A
85	51,200		250		10711445	FNH00-250K-A										
105	125,000	1	315		10809575	FNH1-315K-A										
130	97,000		400		10815073	FNH1-400K-A										
171	168,000	2	500		10824109	FNH2-500K-A										
200	245,000		630		10824110	FNH2-630K-A										
255	90,000	3	500		10833056	FNH3-500K-A	500	12645317	FNH3FEM-500Y-A							
312	238,000		800		10833726	FNH3-800K-A	550	12660187	FNH3FEM-550Y-A							
365							630	12660583	FNH3FEM-630Y-A							
412	320,000						900	11393564	FNH3-900K-A	700	12660657	FNH3FEM-700Y-A				

WEG aR fuses recommended for motor inside delta connection										
The fuse stays INSIDE the delta										
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	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		550				
	900		11393564	FNH3-900K-A		630		12660583	FNH3FEM-630Y-A	
						700				12660657 FNH3FEM-700Y-A

WEG aR Fuses Recommended for WEG CFW08 Inverter

CFW08			Recommended WEG aR fuses FNH blade contact									
Model	Voltage (V ac)	Maximum I²t of the fuse at 25 °C (A²s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference					
CFW080016S2024	200-240 single-phase	125	00	20	1	10687494	FNH00-20K-A					
CFW080026S2024			000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
CFW080040S2024			000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
CFW080016B2024			000			13735555	FNH000-20K-A					
	00		10687494			FNH00-20K-A						
200-240 single-phase and three-phase	CFW080026B2024		000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
			CFW080040B2024			000	13735555	FNH000-20K-A				
						00	10687494	FNH00-20K-A				
						CFW080073B2024	000	13735555	FNH000-20K-A			
		00		10687494			FNH00-20K-A					
260	35	10701721	FNH00-35K-A									
				CFW080100B2024			000	13737105	FNH000-35K-A			
						00	10701721	FNH00-35K-A				
				125		20	10687494	FNH00-20K-A				
									CFW080070T2024	000	13735555	FNH000-20K-A
										CFW080160T2024	00	10702117
260	35	13737105	FNH000-35K-A									
									CFW080017T2024POH3Z	000	10701722	FNH00-25K-A
										000	13737107	FNH000-40K-A
				CFW080220T2024		00	10702117	FNH00-40K-A				
						000	13737107	FNH000-40K-A				
				CFW080280T2024		1	63	10806688	FNH1-63K-A			
CFW080330T2024	800	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 ^{pt} of the fuse at 25 °C (A ² s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference	
CFW080010T3848	380-480 three-phase	125	00	20	1	10687494	FNH00-20K-A	
CFW080016T3848			000			13735555	FNH000-20K-A	
			00			10687494	FNH00-20K-A	
			000			13735555	FNH000-20K-A	
CFW080026T3848			00			10687494	FNH00-20K-A	
CFW080040T3848			000			13735555	FNH000-20K-A	
			00			10687494	FNH00-20K-A	
			000			13735555	FNH000-20K-A	
CFW080027T3848		260	00			10687494	FNH00-20K-A	
CFW080043T3848			000			13735555	FNH000-20K-A	
			00			10687494	FNH00-20K-A	
			000			13735555	FNH000-20K-A	
CFW080065T3848			00			10687494	FNH00-20K-A	
CFW0800100T3848			000			13735555	FNH000-20K-A	
			00			10701722	FNH00-25K-A	
			000			13735656	FNH000-25K-A	
CFW080130T3848		340	00	35		10701721	FNH00-35K-A	
CFW080160T3848			000	40		13737105	FNH000-35K-A	
			00			10702117	FNH00-40K-A	
			000			13737107	FNH000-40K-A	
CFW080240T3848		800	00	50		10701718	FNH00-50K-A	
CFW080300T3848			000	13737128		FNH000-50K-A		
			1	80		10807549	FNH1-80K-A	
CFW080017T5060		575 three-phase	340	00		20	10687494	FNH00-20K-A
CFW080030T5060				000			13735555	FNH000-20K-A
	00			10687494			FNH00-20K-A	
	000			13735555			FNH000-20K-A	
CFW080043T5060	00			10687494			FNH00-20K-A	
CFW080070T5060	000			13735555			FNH000-20K-A	
	00			10687494			FNH00-20K-A	
	000			13735555			FNH000-20K-A	
CFW080100T5060	00			25		10701722	FNH00-25K-A	
CFW080120T5060	000			13735656		FNH000-25K-A		
	00			10701721		FNH00-35K-A		
	000			13737105		FNH000-35K-A		

WEG aR Fuses Recommended for WEG CFW09 Inverter

Inverter rated current CFW09 A/V		Maximum I _{pt} of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
CT	VT	(A²s)	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	FNH000-20K-A					
3.6/380-480	-	450	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
4.0/380-480	-	450	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
4.2/500-600	7.0/500-600	450	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
5.5/380-480	-	450	00	25		10701722	FNH00-25K-A					
			000	20		13735555	FNH000-20K-A					
6.0/220-230	-	450	00	25		10701722	FNH00-25K-A					
			000	20		13735555	FNH000-20K-A					
7.0/220-230	-	450	00	25		10701722	FNH00-25K-A					
			000	20		13735555	FNH000-20K-A					
7.0/500-600	10/500-600	450	00	25		10701722	FNH00-25K-A					
			000			13735656	FNH000-25K-A					
9.0/380-480	-	450	00			10701722	FNH00-25K-A					
			000			13735656	FNH000-25K-A					
10/220-230	-	450	00	35		10701721	FNH00-35K-A					
			000	13735656		FNH000-25K-A						
10/500-600	12/500-600	450	00	25		10701722	FNH00-25K-A					
			000			13735656	FNH000-25K-A					
12/500-600	14/500-600	500	00	35		10701721	FNH00-35K-A					
			000			13737105	FNH000-35K-A					
13/220-230	-	500	00			10701721	FNH00-35K-A					
			000			13737105	FNH000-35K-A					
13/380-480	-	500	00			10701721	FNH00-35K-A					
			000			13737105	FNH000-35K-A					
14/500-600	-	500	00			10701721	FNH00-35K-A					
			000			13737107	FNH000-40K-A					

WEG aR Fuses Recommended for WEG CFW09 Inverter

Inverter rated current CFW09 A/V		Maximum I _p of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end								
CT	VT	(A'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	1	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			10705764	FNH00-63K-A									
			000			13737129	FNH000-63K-A									
30/380-480	36/380-480	2,100	00			10705764	FNH00-63K-A									
			000			13737129	FNH000-63K-A									
32/500-600	-	7,200	00			10705764	FNH00-63K-A									
			000			13737129	FNH000-63K-A									
38/380-480	45/380-480	7,200	00	80		10705995	FNH00-80K-A									
			000	100		13737131	FNH000-100K-A									
44/500-600	53/500-600	14,400	00	80		10705995	FNH00-80K-A									
			000	100		13737131	FNH000-100K-A									
45/220-230	-	2,450	00	80		10705995	FNH00-80K-A									
			000	100		13737131	FNH000-100K-A									
45/380-480	54/380-480	7,200	00	80		10705995	FNH00-80K-A									
			000	100		13737131	FNH000-100K-A									
53/500-600	63/500-600	14,400	00	100		10707110	FNH00-100K-A									
			000	125		13737132	FNH000-125K-A									
54/220-230	68/220-230	7,200	00	100		10707110	FNH00-100K-A									
60/380-480	70/380-480	14,400		125		10707231	FNH00-125K-A									
63/500-600	79/500-600					10707231	FNH00-125K-A									
70/220-230	86/220-230					10707231	FNH00-125K-A									
70/380-480	86/380-480															
79/500-600	99/500-600	21,600		160		10701724	FNH00-160K-A									
86/220-230	105/220-230	14,400														
86/380-480	105/380-480	21,600				10701724	FNH00-160K-A									
100/660-690	127/660-690	320,000	10710732			FNH00-200K-A	3	450	1	12644962	FNH3FEM-450Y-A					
105/220-230	130/220-230	21,600	00	200		10710732	FNH00-200K-A	-	-	-	-	-				
105/380-480	130/380-480															
107/500-690	147/500-690					320,000	10711445	FNH00-250K-A	3	450	1	12644962	FNH3FEM-450Y-A			
127/660-690	179/660-690					10809575	FNH1-315K-A	-	-	-	-	-				
130/220-230	150/220-230	21,600	1	315		10809575	FNH1-315K-A	-	-	-	-	-				
142/380-480	174/380-480															
147/500-690	196/500-690	320,000				10814896	FNH1-350K-A	3	450	1	12644962	FNH3FEM-450Y-A				
179/660-690	179/660-690	320,000				10814896	FNH1-350K-A				12644962	FNH3FEM-450Y-A				
180/380-480	-	320,000	2	400		10815073	FNH1-400K-A				12644962	FNH3FEM-450Y-A				
211/380-480						10815073	FNH1-400K-A				12644962	FNH3FEM-450Y-A				
211/500-690						10824055	FNH2-450K-A				12644962	FNH3FEM-450Y-A				
225/660-690	259/660-690					10824055	FNH2-450K-A				12644962	FNH3FEM-450Y-A				
240/380-480	-	414,000		450		10824055	FNH2-450K-A				12644962	FNH3FEM-450Y-A				
247/500-690	315/500-690					10824109	FNH2-500K-A				12645317	FNH3FEM-500Y-A				
259/660-690	305/660-690			630		10824110	FNH2-630K-A				12645317	FNH3FEM-500Y-A				
305/660-690	340/660-690					10824110	FNH2-630K-A				12660187	FNH3FEM-550Y-A				
312/380-480	-					10824110	FNH2-630K-A				12645317	FNH3FEM-500Y-A				
315/500-690	343/500-690					11393547	FNH2-710K-A				12660187	FNH3FEM-550Y-A				
340/660-690	428/660-690	1,051,000	3	800		10833726	FNH3-800K-A				12660657	FNH3FEM-700Y-A				
343/500-690	418/500-690	414,000				10833591	FNH3-710K-A				12660583	FNH3FEM-630Y-A				
361/380-480	-					10833591	FNH3-710K-A				12660583	FNH3FEM-630Y-A				
418/500-690	472/500-690	1,051,000				11393564	FNH3-900K-A				12660657	FNH3FEM-700Y-A				
428/660-690	428/660-690	1,445,000	3	900		11393564	FNH3-900K-A				12660657	FNH3FEM-700Y-A				
472/500-690	555/500-690					11393565	FNH3-1000K-A				12661660	FNH3FEM-800Y-A				
450/380-480	-					11393564	FNH3-900K-A				12660657	FNH3FEM-700Y-A				
515/380-480	1,051,000	11393565				FNH3-1000K-A	12661660				FNH3FEM-800Y-A					
600/380-480	1,445,000	11393565				FNH3-1000K-A	12661662				FNH3FEM-900Y-A					
			2	630	2	10824110	FNH2-630K-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 CFW11 Inverter

CFW11					Maximum I ² t of the fuse
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)
CFW110010S2SZ	A	Built-in	220	Single-phase	1,000
CFW110006B2SZ				Single-phase or three-phase	420
CFW110007B2SZ					
CFW110007T2SZ					
CFW110010T2SZ					
CFW110013T2SZ					
CFW110016T2SZ					
CFW110024T2SZ	B			1,000	
CFW110028T2SZ					
CFW110033T2SZ					
CFW110045T2SZ	C			2,750	
CFW110054T2SZ					
CFW110070T2SZ					
CFW110086T2SZ	D			3,150	
CFW110105T2SZ					
CFW110142T2SZ	E	39,200			
CFW110180T2SZ			218,000		
CFW110211T2SZ		39,200			
CFW110142T20DBZ			218,000		
CFW110180T20DBZ					
CFW110211T20DBZ					
CFW110003T4SZ	A	Built-in	380		190
CFW110005T4SZ					
CFW110007T4SZ					
CFW110010T4SZ					
CFW110013T4SZ					
CFW110017T4SZ	B			500	
CFW110024T4SZ					
CFW110031T4SZ					
CFW110038T4SZ	C			1,250	
CFW110045T4SZ					
CFW110058T4SZ					
CFW110070T4SZ	D			2,100	
CFW110088T4SZ					
				3,150	

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	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			10687494	FNH00-20K-A										
	000			13735555	FNH000-20K-A										
	00	25		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										
	00	63		10705764	FNH00-63K-A										
	000			13737129	FNH000-63K-A										
	00	80		10705995	FNH00-80K-A										
	000			13737130	FNH000-80K-A										
	00			10705995	FNH00-80K-A										
	000	100		13737131	FNH000-100K-A										
	00			10707110	FNH00-100K-A										
	000	100		1	13737131						FNH000-100K-A				
	00	125			10707231	FNH00-125K-A									
		250			10711445	FNH00-250K-A									
1	350	10814896			FNH1-350K-A	3						450	1	12644962	FNH3FEM-450Y-A
	400	10815073			FNH1-400K-A										
00	250	10711445	FNH00-250K-A												
1	350	10814896	FNH1-350K-A												
	400	10815073	FNH1-400K-A												
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											
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	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											
00	63		10705764	FNH00-63K-A											
000			13737129	FNH000-63K-A											
00	80		10705995	FNH00-80K-A											
000			13737130	FNH000-80K-A											
00	100		10707110	FNH00-100K-A											
	000		80		13737130						FNH000-80K-A				
	00		100		10707110						FNH00-100K-A				
			125		10707231						FNH00-125K-A				

WEG aR Fuses Recommended for WEG CFW11 Inverter

CFW11				Maximum I ² t of the fuse
Model	Frame	Braking IGBT	Supply voltage (V ac)	(A ² s)
CFW110105T4SZ	E	Not built-in	380	39,200
CFW110142T4SZ				
CFW110180T4SZ				218,000
CFW110211T4SZ				
CFW110105T40DBZ		Built-in		39,200
CFW110142T40DBZ				
CFW110180T40DBZ				218,000
CFW110211T40DBZ				
CFW110242T4SZ	F	320,000		
CFW110312T4SZ		414,000		
CFW110370T4SZ		1,051,000		
CFW110477T4SZ				
CFW110515T4SZ	G	1,445,000		
CFW110601T4SZ				
CFW110720T4SZ				
CFW110795T4SZ	H	External accessory (use DBW04)		1,051,000
CFW110877T4SZ				
CFW111062T4SZ				1,445,000
CFW111141T4SZ				
CFW110003T4SZ	A	Built-in	440	190
CFW110005T4SZ				
CFW110007T4SZ				
CFW110010T4SZ				
CFW110013T4SZ				495
CFW110017T4SZ	B			
CFW110024T4SZ				500
CFW110031T4SZ				1,250
CFW110038T4SZ	C			
CFW110045T4SZ				2,100
CFW110058T4SZ				
CFW110070T4SZ	D			3,150
CFW110088T4SZ				
CFW110105T4SZ	E	Not built-in		39,200
CFW110142T4SZ				
CFW110180T4SZ				218,000
CFW110211T4SZ				
CFW110105T40DBZ	E	Built-in		39,200
CFW110142T40DBZ				
CFW110180T40DBZ				218,000
CFW110211T40DBZ				
CFW110242T4SZ	F	External accessory (use DBW03)		320,000
CFW110312T4SZ				414,000
CFW110370T4SZ				1,051,000
CFW110477T4SZ				
CFW110515T4SZ	G			1,445,000
CFW110601T4SZ				
CFW110720T4SZ				
CFW110760T4SZ				

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		160	1	10701724	FNH00-160K-A	-	-	-	-	-			
		250		10711445	FNH00-250K-A								
1		350		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	3	450	1	12644962	FNH3FEM-450Y-A			
		400		10815073	FNH1-400K-A								
2		450		10824055	FNH2-450K-A								
		630		10824110	FNH2-630K-A								
3		900		11393547	FNH2-710K-A								
		1,000		11393564	FNH3-900K-A								
2		630		2	10824110						FNH2-630K-A		
		710	11393547		FNH2-710K-A								
3		800	10833726		FNH3-800K-A								
		900	11393564		FNH3-900K-A								
3		1,250	-		-						-	-	-
		1,400		12661666									
00		20		10687494		FNH00-20K-A							
				13735555		FNH000-20K-A							
00				10687494		FNH00-20K-A							
				13735555		FNH000-20K-A							
00				10687494		FNH00-20K-A							
				13735555		FNH000-20K-A							
00				10687494		FNH00-20K-A							
				13735555		FNH000-20K-A							
00				25		10701722	FNH00-25K-A						
						13735656	FNH000-25K-A						
00			35		10701721	FNH00-35K-A							
				13737105	FNH000-35K-A								
00				40	10702117	FNH00-40K-A							
			13737107		FNH000-40K-A								
00			50		10701718	FNH00-50K-A							
				13737128	FNH000-50K-A								
00				80	10705995	FNH00-80K-A							
			63	13737129	FNH000-63K-A								
00		80	10705995	FNH00-80K-A									
		80	13737130	FNH000-80K-A									
00		100	10707110	FNH00-100K-A									
		80	13737130	FNH000-80K-A									
00		100	10707110	FNH00-100K-A									
		125	10707231	FNH00-125K-A									
00		160	10701724	FNH00-160K-A									
		250	10711445	FNH00-250K-A									
1		350	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	3	450	1	12644962	FNH3FEM-450Y-A				
		400	10815073	FNH1-400K-A									
2		450	10824055	FNH2-450K-A									
		630	10824110	FNH2-630K-A									
2		710	11393547	FNH2-710K-A									
		900	11393564	FNH3-900K-A									
3		1,000	11393565	FNH3-1000K-A									
		630	10824110	FNH2-630K-A									
2		710	11393547	FNH2-710K-A									
		710	11393547	FNH2-710K-A									

WEG aR Fuses Recommended for WEG CFW11 Inverter

CFW11					Maximum I²t of the fuse						
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)						
CFW110795T4SZ	H	External accessory (use DBW04)	440	Three-phase	1,051,000						
CFW110877T4SZ											
CFW1101062T4SZ					1,445,000						
CFW1101141T4SZ											
CFW110002T50NFYZ	B	Built-in	600		1,250						
CFW110004T50NFYZ											
CFW110007T50NFYZ											
CFW110010T50NFYZ											
CFW110012T50NFYZ											
CFW110017T50NFYZ											
CFW110022T5	C	-			600	7,200					
CFW110027T5											
CFW110032T5											
CFW110044T5											
CFW110022T50NFYZ	D	Built-in				600					
CFW110027T50NFYZ											
CFW110032T50NFYZ											
CFW110044T50NFYZ											
CFW110053T60YZ	E	Not built-in					600	39,200			
CFW110063T60YZ											
CFW110080T60YZ											
CFW110107T60YZ											
CFW110125T60YZ											
CFW110150T60YZ									218,000		
CFW110053T60YZ		Built-in						39,200			
CFW110063T60DBYZ											
CFW110080T60DBYZ											
CFW110107T60DBYZ											
CFW110125T60DBYZ											
CFW110150T60DBYZ									218,000		
CFW110170T60YZ	F	External accessory (use DBW03)						600	320,000		
CFW110216T60YZ									414,000		
CFW110289T60YZ									1,051,000		
CFW110315T60YZ	1,445,000										
CFW110365T60YZ	G								600		
CFW110435T60YZ											
CFW110584T60YZ											
CFW110625T60YZ	H									External accessory (use DBW04)	1,620,000
CFW110758T60YZ											
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.

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	
							1,400		12661666	FNH3FEM-1400Y-A	
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						
00				10687494	FNH00-20K-A						
000				13735555	FNH000-20K-A						
00				25	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							
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		10707231		FNH00-125K-A							
000	125	13737132		FNH000-125K-A							
00	160	10701724		FNH00-160K-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	160	10701724		FNH00-160K-A							
00	200	10710732		FNH00-200K-A							
00	250	10711445		FNH00-250K-A							
1	350	10814896		FNH1-350K-A							
	400	10815073		FNH1-400K-A							
2	630	10824110	FNH2-630K-A								
	630										
	710	11393547	FNH2-710K-A								
3	800	10833726	FNH3-800K-A								
2	630	2	10824110	FNH2-630K-A							
	710		11393547	FNH2-710K-A							
3	800		10833726	FNH3-800K-A							
						3	450	1	12644962	FNH3FEM-450Y-A	
							-		-	-	-
						3	500	1	12645317	FNH3FEM-500Y-A	
							630		12660583	FNH3FEM-630Y-A	
							800		12661660	FNH3FEM-800Y-A	
							900		12661662	FNH3FEM-900Y-A	
							1,000		12661663	FNH3FEM-1000Y-A	

WEG aR Fuses Recommended for WEG CFW11 Inverter

CFW11					Maximum I²t of the fuse
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)
CFW110022T50NFYZ	D	Built-in	690	Three-phase	7,200
CFW110027T50NFYZ					
CFW110032T50NFYZ					
CFW110044T50NFYZ					
CFW110053T60YZ	E	Not built-in			39,200
CFW110063T60YZ					
CFW110080T60YZ					
CFW110107T60YZ					
CFW110125T60YZ					
CFW110150T60YZ					
CFW110053T60YZ		Built-in			39,200
CFW110063T60DBYZ					
CFW110080T60DBYZ					
CFW110107T60DBYZ					
CFW110125T60DBYZ					
CFW110150T60DBYZ					
CFW110170T60YZ	F	External accessory (use DBW03)			320,000
CFW110216T60YZ					414,000
CFW110289T60YZ					1,051,000
CFW110315T60YZ					1,445,000
CFW110365T60YZ					
CFW110435T60YZ					
CFW110472T60YZ					
CFW110584T60YZ	H	External accessory (use DBW04)			1,620,000
CFW110625T60YZ					
CFW110758T60YZ					
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 ² t of the fuse
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A ² s)
CFW100A01P6S220	A	Not built-in	220	Single-phase	166
CFW100B02P6S220					
CFW100C04P2S220					500

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	63		10705764	FNH00-63K-A					
	000			13737129	FNH000-63K-A					
	00	80		10705995	FNH00-80K-A					
	000			13737130	FNH000-80K-A					
	00			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	160		10701724	FNH00-160K-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	160		10701724	FNH00-160K-A					
	00	200		10710732	FNH00-200K-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						
		10824110		FNH2-630K-A						
3	800	11393547		FNH2-710K-A						
	900	10833726		FNH3-800K-A						
		11393564		FNH3-900K-A						
	1,000	11393564		FNH3-900K-A						
		11393565		FNH3-1000K-A						
3	710	2	10833591	FNH3-710K-A						
	800		10833726	FNH3-800K-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 _p of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Supply voltage (V ac)	(A²s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference	Size	In (A)	Quantity in parallel	SAP code	WEG reference
CFW300A01P6S120	110...127 single-phase	166	00	20	1	10687494	FNH00-20K-A	-	-	-	-	-
CFW300A02P6S120			000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW300A04P2S120		660	00	35		10701721	FNH00-35K-A					
CFW300A06POS120			000			13737105	FNH000-35K-A					
			00			10702117	FNH00-40K-A					
			000			13737107	FNH000-40K-A					
CFW300A01P6S220	200...240 single-phase	166	00	20		10687494	FNH00-20K-A					
CFW300A02P6S220			000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW300A04P2S220			00			10687494	FNH00-20K-A					
CFW300A06POS220			000			13735656	FNH000-25K-A					
		660	00	10701722		FNH00-25K-A						
			000	13737105		FNH000-35K-A						
			CFW300A07P3S220	00		10687494	FNH00-20K-A					
200...240 three-phase			500	000		20	13735555					
	00	10687494		FNH00-20K-A								
	000	13735555		FNH000-20K-A								
	00	10687494		FNH00-20K-A								
	500	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								
CFW300A01P6D320	280...340	-	00	20		10687494	FNH00-20K-A					
000			13735555			FNH000-20K-A						
CFW300A02P6D320		-	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW300A04P2D320		-	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW300A06P0D320		-	00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW300A07P3D320		-	00			10687494	FNH00-20K-A					
000			13735555			FNH000-20K-A						
CFW300B10P0B220	200...240 V ac or 280...340 V dc	300	00	35		10701721	FNH00-35K-A					
000			13737105			FNH000-35K-A						
CFW300B15P2T220		685	00			10701721	FNH00-35K-A					
			000			13737105	FNH000-35K-A					

WEG aR Fuses Recommended for WEG CFW500 Inverter

CFW500		Maximum I ² t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Supply voltage (V ac)	(A²s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference	Size	In (A)	Quantity in parallel	SAP code	WEG reference
CFW500A01P6S2	200-240 single-phase	373	00	20	1	10687494	FNH00-20K-A	-	-	-	-	-
CFW500A02P6S2			000			13735555	FNH000-20K-A					
			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW500A04P3S2		800	00	25		10701722	FNH00-25K-A					
			000			13735656	FNH000-25K-A					
CFW500A07POS2			40	10702117		FNH00-40K-A						
				000		13737107	FNH000-40K-A					

WEG aR Fuses Recommended for WEG CFW500 Inverter

CFW500		Maximum I ² t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end						
Model	Supply voltage (V ac)	(A ² 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	-	-	-	-	-		
			000			13735555	FNH000-20K-A							
CFW500A02P6B2			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A04P3B2			00	10701722		FNH00-25K-A								
			000	13735656		FNH000-25K-A								
CFW500A01P6B2	200-240 connected in three-phase		00	20		10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A02P6B2			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A04P3B2			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A07P0T2	200-240 three-phase		00	25		10687494	FNH00-20K-A							
CFW500A09P6T2			000			13735555	FNH000-20K-A							
	1,250		00	25		10701722	FNH00-25K-A							
			000			13735656	FNH000-25K-A							
CFW500B07P3B2	200-240 connected in single-phase		450	00		40	10702117						FNH00-40K-A	
				000		13737107	FNH000-40K-A							
CFW500B10P0B2	1	63		10806688		FNH1-63K-A								
CFW500B07P3B2	00	20		10687494		FNH00-20K-A								
	000			13735555		FNH000-20K-A								
CFW500B10P0B2	00	25		10701722		FNH00-25K-A								
	000			13735656		FNH000-25K-A								
CFW500B16P0T2	200-240 three-phase	1,000		00		40	10702117						FNH00-40K-A	
				000		13737107	FNH000-40K-A							
CFW500C24P0T2				00		63	10705764						FNH00-63K-A	
				000			13737129						FNH000-63K-A	
CFW500D28P0T2				2,750		00	80						10705764	FNH00-63K-A
						000							13737130	FNH000-80K-A
CFW500D33P0T2	00	100				10705995	FNH00-80K-A							
	000					13737131	FNH000-100K-A							
CFW500D47P0T2	00	100				10707110	FNH00-100K-A							
	000					13737131	FNH000-100K-A							
CFW500D56P0T2	6,600	00		125		10707231	FNH00-125K-A							
		000	125	13737132		FNH000-125K-A								
CFW500A01P0T4	380-480 three-phase	450	00	20		10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A01P6T4			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A02P6T4			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A04P3T4			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500A06P1T4			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500B02P6T4			00			10687494	FNH00-20K-A							
			000			13735555	FNH000-20K-A							
CFW500B04P3T4			00		10687494	FNH00-20K-A								
			000		13735555	FNH000-20K-A								
CFW500B06P5T4			00		10687494	FNH00-20K-A								
			000		13735555	FNH000-20K-A								
CFW500B10P0T4			1,000		00	25	10701722	FNH00-25K-A						
					000		13735656	FNH000-25K-A						
CFW500C13P0T4		00		35	10701721	FNH00-35K-A								
		000			13737105	FNH000-35K-A								
CFW500C16P0T4	00	10701721			FNH00-35K-A									
	000	13737105			FNH000-35K-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 I _t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Supply voltage (V ac)	(A²s)	Size	In (A)	Quantity in parallel	SAP code	WEG reference	Size	In (A)	Quantity in parallel	SAP code	WEG reference
CFW500D24POT4	380-480 three-phase	1,800	00	63	1	10705764	FNH00-63K-A	-	-	-	-	-
			000			13737129	FNH000-63K-A					
CFW500D31POT4			00			10705764	FNH00-63K-A					
			000			13737129	FNH000-63K-A					
CFW500E39POT4		2,100	00	80		10705995	FNH00-80K-A					
			000	80		13737130	FNH000-80K-A					
CFW500E49POT4	13,000	00	100	10707110		FNH00-100K-A						
		000	125	13737132		FNH000-125K-A						
CFW500C01P7T5	500-600 three-phase	1,000	00	20		10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW500C03POT5			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW500C04P3T5			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW500C07POT5			00			10687494	FNH00-20K-A					
			000			13735555	FNH000-20K-A					
CFW500C10POT5			25	00		10701722	FNH00-25K-A					
				000		13735656	FNH000-25K-A					
CFW500C12POT5				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 ² t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Frame	Supply voltage (V ac)	(A²s)	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	-	-	-	-	-
				000			13735555	FNH000-20K-A					
CFW501A02P6T2				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A04P3T2				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A07P0T2				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A09P6T2	1,250		00	25	10701722		FNH00-25K-A						
			000		13735656		FNH000-25K-A						
CFW501B07P3T2	B		450	00	20		10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501B10P0T2				00	25		10701722	FNH00-25K-A					
				000			13735656	FNH000-25K-A					
CFW501B16P0T2	1,000		00	40	10702117		FNH00-40K-A						
			000		13737107		FNH000-40K-A						
CFW501C24P0T2		C	00	63	10705764		FNH00-63K-A						
			000		13737129		FNH000-63K-A						
CFW501A01P0T4	A	380 - 480	450	00	20		10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A01P6T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A02P6T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A04P3T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501A06P1T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501B02P6T4	B			00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501B04P3T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501B06P5T4				00			10687494	FNH00-20K-A					
				000			13735555	FNH000-20K-A					
CFW501B10P0T4	1,000		00	25	10701722		FNH00-25K-A						
			000		13735656		FNH000-25K-A						
CFW501C14P0T4			C	00	35		10701721	FNH00-35K-A					
				000			13737105	FNH000-35K-A					
CFW501C16P0T4	00			10701721			FNH00-35K-A						
	000			13737105			FNH000-35K-A						
CFW501D24P0T4	D		1,800	00	63		10705764	FNH00-63K-A					
				000			13737129	FNH000-63K-A					
CFW501D31P0T4				00	80		10705995	FNH00-80K-A					
				000			13737130	FNH000-80K-A					

WEG aR Fuses Recommended for WEG CFW700 Inverter

CFW700					Maximum I ² t of the fuse	
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)	
CFW700B33P5T2DB20H1ACS1	B	-	220-230	Single-phase	1,000	
CFW700C70P0T2DB20H1ACS1	C				2,750	
CFW700D0105T2DBN1H1ACS1	D				3,150	
CFW700E0211T2DB20C3H1ACS1	E				218,000	
CFW700B31P0T4DB20H1ACS1	B		380-480		1,250	
CFW700C58P5T4DB20H1ACS1	C				2,100	
CFW700D88P0T4DBN1H1ACS1	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			1,000		
CFW700B28P0T2DB						
CFW700B33P5T2DB						
CFW700C45P0T2DB	C			2,750		
CFW700C54P0T2DB						
CFW700C70P0T2DB						
CFW700D86P0T2DB	D			3,150		
CFW700D0105T2DB						
CFW700E0142T2NB	E	Not built-in	Three-phase	39,200		
CFW700E0180T2NB				218,000		
CFW700E0211T2NB		Built-in		39,200		
CFW700E0142T2DB				218,000		
CFW700E0180T2DB				190		
CFW700E0211T2DB						
CFW700A03P6T4DB	Built-in	380	495			
CFW700A05P0T4DB						
CFW700A07P0T4DB						
CFW700A10P0T4DB						
CFW700A13P5T4DB						
CFW700B17P0T4DB	B	500	1,250			
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	1	10705764	FNH00-63K-A	-	-	-	-	-																				
	000			13737129	FNH000-63K-A																									
	00	10707110		FNH00-100K-A																										
		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	3	450	1	12644962	FNH3FEM-450Y-A																				
	1	400		10815073	FNH1-400K-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	25		10687494	FNH00-20K-A																									
	000			13735555	FNH000-20K-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	100		10705995	FNH00-80K-A																									
	000			13737131	FNH000-100K-A																									
	00	125		10707110	FNH00-100K-A																									
	00			10707231	FNH00-125K-A																									
	1	250		10809489	FNH1-250K-A						3	450	1	12644962	FNH3FEM-450Y-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 I²t of the fuse			
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)			
CFW700C38P0T4DB	C	Built-in	380	Three-phase	1,250			
CFW700C45P0T4DB					2,100			
CFW700C58P5T4DB								
CFW700D70P5T4DB	D				3,150			
CFW700D88P0T4DB					39,200			
CFW700E0105T4NB	E	Not built-in			218,000			
CFW700E0142T4NB					39,200			
CFW700E0180T4NB		Built-in			218,000			
CFW700E0211T4NB					39,200			
CFW700E0105T4DB					218,000			
CFW700E0142T4DB					190			
CFW700E0180T4DB								
CFW700E0211T4DB								
CFW700A03P6T4DB	A	Built-in	440					
CFW700A05P0T4DB			495					
CFW700A07P0T4DB								
CFW700A10P0T4DB								
CFW700A13P5T4DB			500					
CFW700B17P0T4DB	B				1,250			
CFW700B24P0T4DB					2,100			
CFW700B31P0T4DB								
CFW700C38P0T4DB	C				3,150			
CFW700C45P0T4DB					39,200			
CFW700C58P5T4DB					218,000			
CFW700D70P5T4DB	D	Not built-in			39,200			
CFW700D88P0T4DB					218,000			
CFW700E0105T4NB	E	Not built-in			39,200			
CFW700E0142T4NB					218,000			
CFW700E0180T4NB					39,200			
CFW700E0211T4NB					218,000			
CFW700E0105T4DB		Built-in			39,200			
CFW700E0142T4DB					218,000			
CFW700E0180T4DB					1,250			
CFW700E0211T4DB								
CFW700B02P9T5DB	B	Built-in	600					
CFW700B04P2T5DB								
CFW700B07P0T5DB								
CFW700B10P0T5DB								
CFW700B12P0T5DB								
CFW700B17P0T5DB								

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	1	10705764	FNH00-63K-A	-	-	-	-	-
000				13737129	FNH000-63K-A					
00				10705764	FNH00-63K-A					
000		13737130		FNH000-80K-A						
00		10705995		FNH00-80K-A						
		10707110		FNH00-100K-A						
		10707231		FNH00-125K-A						
		10701724		FNH00-160K-A						
1		250		10809489	FNH1-250K-A					
		315		10809575	FNH1-315K-A					
		350		10814896	FNH1-350K-A					
00		160		10701724	FNH00-160K-A	-	-	-	-	-
1		250		10809489	FNH1-250K-A	3	450	1	12644962	FNH3FEM-450Y-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					
00		63		10705764	FNH00-63K-A					
000				13737129	FNH000-63K-A					
00				10705764	FNH00-63K-A					
000				13737130	FNH000-80K-A					
00		80		10705995	FNH00-80K-A					
				10707110	FNH00-100K-A					
				10707231	FNH00-125K-A					
00		160		10701724	FNH00-160K-A					
1		250		10809489	FNH1-250K-A					
		315		10809575	FNH1-315K-A					
		350		10814896	FNH1-350K-A					
00		160		10701724	FNH00-160K-A	-	-	-	-	-
1		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				10701721	FNH00-35K-A					
000				13737105	FNH000-35K-A					

WEG aR Fuses Recommended for WEG CFW700 Inverter

CFW700					Maximum I²t of the fuse		
Model	Frame	Braking IGBT	Supply voltage (V ac)		(A²s)		
CFW700C22P0T5	C	Built-in	600	Three-phase	2,100		
CFW700C27P0T5							
CFW700C32P0T5							
CFW700C44P0T5							
CFW700D22P0T5DB	D				Not built-in	218,000	
CFW700D27P0T5DB							
CFW700D32P0T5DB							
CFW700D44P0T5DB							
CFW700E53P0T5NB	E	Built-in					39,200
CFW700E63P0T5NB							
CFW700E80P0T5NB							
CFW700E0107T5NB							
CFW700E0125T5NB							
CFW700E0150T5NB							
CFW700E53P0T5DB		Built-in					218,000
CFW700E63P0T5DB							
CFW700E80P0T5DB							
CFW700E0107T5DB							
CFW700E0180T4DB							
CFW700E0211T4DB							

WEG aR Fuses Recommended for WEG CFW701 Inverter

CFW701				Maximum I ² t of the fuse	
Model	Frame	Supply voltage (V ac)	Number of phases	(A²s)	
CFW700C22P0T5	A	220...240	1	420	
CFW700C27P0T5					
CFW700C32P0T5				1,000	
CFW700C44P0T5			3	420	
CFW701A10P0T2					
CFW701A13P0T2					
CFW701A16P0T2					
CFW701B24P0T2	B				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					
		200		10701724	FNH00-160K-A					
	00	200		10710732	FNH00-200K-A	3	450	1	12644962	FNH3FEM-450Y-A
	1	250		10809489	FNH1-250K-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					
		00		10701724	FNH00-160K-A	3	450	1	12644962	FNH3FEM-450Y-A
	00	10710732		FNH00-200K-A						
	1	250		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		20	1	10687494	FNH00-20K-A	-	-	-	-	-				
000				13735555	FNH000-20K-A									
00				10687494	FNH00-20K-A									
000	25	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		10701722		FNH00-25K-A										
000	20	13735555		FNH000-20K-A										
00	25	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	63	13737129		FNH000-63K-A										

WEG aR Fuses Recommended for WEG CFW701 Inverter

CFW701				Maximum I _{pt} of the fuse	
Model	Frame	Supply voltage (V ac)	Number of phases	(A ² s)	
CFW701C45P0T2	C	220...240	3	2,750	
CFW701C54P0T2					
CFW701C70P0T2					
CFW701D86P0T2	D			3,150	
CFW701D0105T2				39,200	
CFW701E0142T2	E	220/230		218,000	
CFW701E0180T2					
CFW701E0211T2					
CFW701A03P6T4	A	380...480		190	
CFW701A05P0T4					
CFW701A07P0T4					
CFW701A10P0T4				495	
CFW701A13P5T4					
CFW701B17P0T4	B			500	
CFW701B24P0T4				1,250	
CFW701B31P0T4					
CFW701C38P0T4	C				2,100
CFW701C45P0T4					
CFW701C58P5T4					
CFW701D70P5T4	D				3,150
CFW701D88P0T4					39,200
CFW701E0105T4	E				218,000
CFW701E0142T4					
CFW701E0180T4					
CFW701E0211T4					
CFW701B02P9T5	B	500...600		1,250	
CFW701B04P2T5					
CFW701B07P0T5					
CFW701B10P0T5					
CFW701B12P0T5					
CFW701B17P0T5					
CFW701C22P0T5	C				2,100
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	80	1	10705995	FNH00-80K-A	-	-	-	-	-																																			
	000			13737130	FNH000-80K-A																																								
	00			10705995	FNH00-80K-A																																								
	000	100		13737131	FNH000-100K-A																																								
	00	10707110		FNH00-100K-A																																									
	000	13737131		FNH000-100K-A																																									
	00	125		10707231	FNH00-125K-A																																								
	00	10707231		FNH00-125K-A																																									
	1	250		10809489	FNH1-250K-A						3	450	1	12644962	FNH3FEM-450Y-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			10702117	FNH00-40K-A																																								
	000	50		13737128	FNH000-50K-A																					-	-	-	-	-															
	00			10701718	FNH00-50K-A																																								
	000	63		13737129	FNH000-63K-A																										-	-	-	-	-										
	00			10705764	FNH00-63K-A																																								
	000	80		13737130	FNH000-80K-A																															-	-	-	-	-					
	00			10705995	FNH00-80K-A																																								
	000	80		13737130	FNH000-80K-A																																								
	1	100		10807553	FNH1-100K-A																																				3	450	1	12644962	FNH3FEM-450Y-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	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			10687494	FNH00-20K-A																																								
	000			13735555	FNH000-20K-A																																								
	00	25		10701722	FNH00-25K-A						-	-	-	-	-																														
	000			13735656	FNH000-25K-A																																								
	00			10701721	FNH00-35K-A																																								
	000	35		13737105	FNH000-35K-A											-	-	-	-	-																									
	00			10702117	FNH00-40K-A																																								
	000	40		13737107	FNH000-40K-A																-	-	-	-	-																				
	00			10701718	FNH00-50K-A																																								
	000			13737128	FNH000-50K-A																																								
	00	63		10705764	FNH00-63K-A																					-	-	-	-	-															
	000			13737129	FNH000-63K-A																																								
	00			10705995	FNH00-80K-A																																								
	000	80		13737130	FNH000-80K-A	-	-	-	-	-																																			
	000		13737130	FNH000-80K-A																																									

WEG aR Fuses Recommended for WEG CFW701 Inverter

CFW701				Maximum I²t of the fuse
Model	Frame	Supply voltage (V ac)	Number of phases	(A²s)
CFW701D22P0T5	D	500...600	3	7,200
CFW701D27P0T5				
CFW701D32P0T5				
CFW701D44P0T5				
CFW701E53P0T5	E			39,200
CFW701E63P0T5				
CFW701E80P0T5				
CFW701E0107T5				
CFW701E0125T5				
CFW701E0150T5				

WEG aR Fuses Recommended for WEG MW500 Inverter

MW500				Maximum Pt of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Frame	Supply voltage (V ac)		(A²s)	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	-	-	-	-	-
					000			13735555	FNH000-20K-A					
MW500A06POS2					00			10701722	FNH00-25K-A					
					000			13735656	FNH000-25K-A					
MW500A02P6T4	B	380-480	Three-phase	450	00	20		10687494	FNH00-20K-A					
					000			13735555	FNH000-20K-A					
MW500A04P3T4					00			10687494	FNH00-20K-A					
					000			13735555	FNH000-20K-A					
MW500B06P5T4					00			10687494	FNH00-20K-A					
					000			13735555	FNH000-20K-A					
MW500B10POT4				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 ² t of the fuse	Recommended WEG aR fuses FNH blade contact					Recommended WEG aR fuses FNHFE flush-end				
Model	Frame	Supply voltage (V ac)		(A²s)	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 I²t of the fuse (A²s)	Size	In (A)	WEG reference	SAP code	Size	In (A)	WEG reference	SAP code	
20 A	6,000	00	25	FNH00-25K-A	10701722	-	-	-	-	
		000	25	FNH000-25K-A	13735656					
50 A		00	63	FNH00-63K-A	10705764					
		000	80	FNH000-80K-A	13737130					
90 A	8,000	00	125	FNH00-125K-A	10707231					
125 A	11,000		160	FNH00-160K-A	10701724					
180 A	73,000		250	FNH00-250K-A	10711445					
260 A	63,000	1	350	FNH1-350K-A	10814896	3	450	FNH3FEM-450Y-A	12644962	
480 A	240,000	2	710	FNH2-710K-A	11393547		550	FNH3FEM-550Y-A	12660187	
640 A	300,000	3	800	FNH3-800K-A	10833726		700	FNH3FEM-700Y-A	12660657	
1,000 A	900,000	-	-	—	-		1,100	FNH3FEM-1100Y-A	12661664	
1,500 A	Circuit breaker to protect the circuit. WEG fuses used in the product									
2,000 A										

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	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		10707110	FNH00-100K-A										
	000			13737131	FNH000-100K-A										
	00			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										
	1	250		10809489	FNH1-250K-A										

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 _{2t} of the fuse (A²s)	Recommended WEG aR fuses FNH blade contact				Model (A)	Maximum I _{2t} of the fuse (A²s)	Recommended WEG aR fuses FNH blade contact			
		Size	In (A)	WEG reference	SAP code			Size	In (A)	WEG reference	SAP code
20	435	00	20	FNH00-20K-A	10687494	480	510	00	35	FNH00-35K-A	10701721
		000		FNH000-20K-A	13735555			000		FNH000-35K-A	13737105
50		00		FNH00-20K-A	10687494	640		00		FNH00-35K-A	10701721
		000		FNH000-20K-A	13735555			000		FNH000-35K-A	13737105
90		00		FNH00-20K-A	10687494	1,000		00		FNH00-35K-A	10701721
		000		FNH000-20K-A	13735555			000		FNH000-35K-A	13737105
125		00	25	FNH00-20K-A	10687494	1,500		00		FNH00-35K-A	10701721
		000		FNH000-20K-A	13735555			000		FNH000-35K-A	13737105
180		00		FNH00-25K-A	10701722	2,000		00		FNH00-35K-A	10701721
		000		FNH000-25K-A	13735656			000		FNH000-35K-A	13737105
260		00		FNH00-25K-A	10701722						
		000		FNH000-25K-A	13735656						

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					
		315	FNH1-315K-A	10809575					
3		400	FNH3-400K-A	10831217					
		710	FNH3-710K-A	10833591					
-	-	-	-	-	3	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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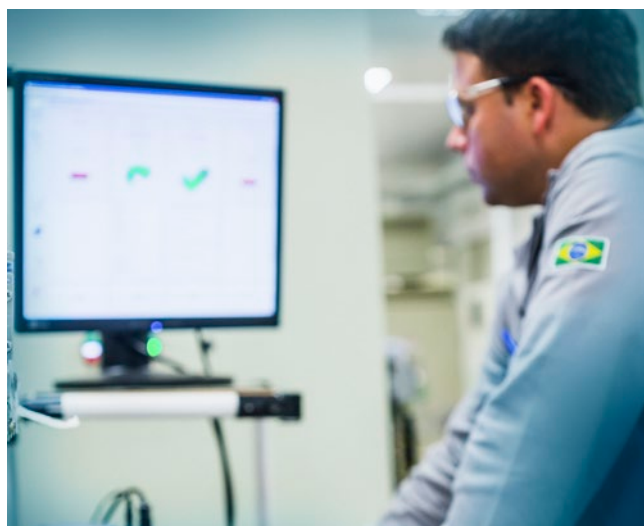
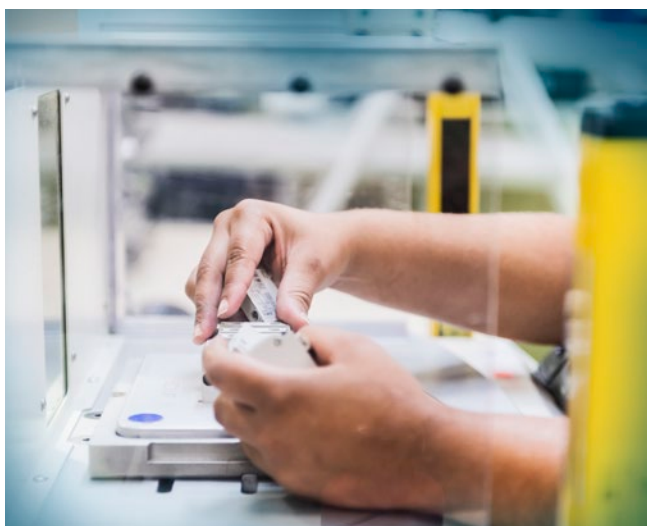
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