

# Installation Instructions

## VLT® FC Series Internal Fuse Replacement

These installation instructions contain the following sections:

- fuse/relay locations for specified A, B, C frame frequency converters
- voltage ratings
- fuse replacement table

### 1.1 Fuse/Relay Locations for A Frame

The following illustrations show the input power, motor, and relay locations for A2, A3, and A5 frame sizes. The A5 illustration also contains the location of the drive fuses.

**NOTICE**

Note that these locations are different than what is indicated in the Operating Instructions.

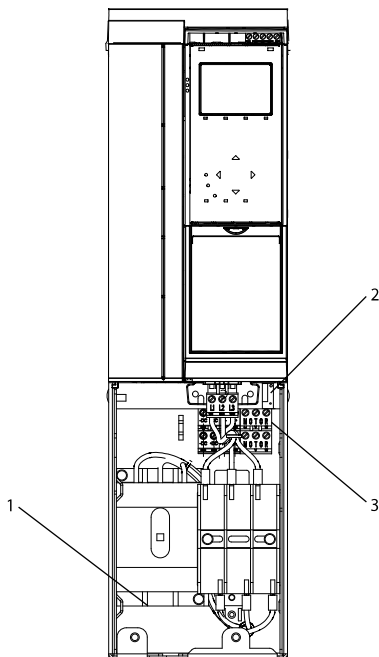
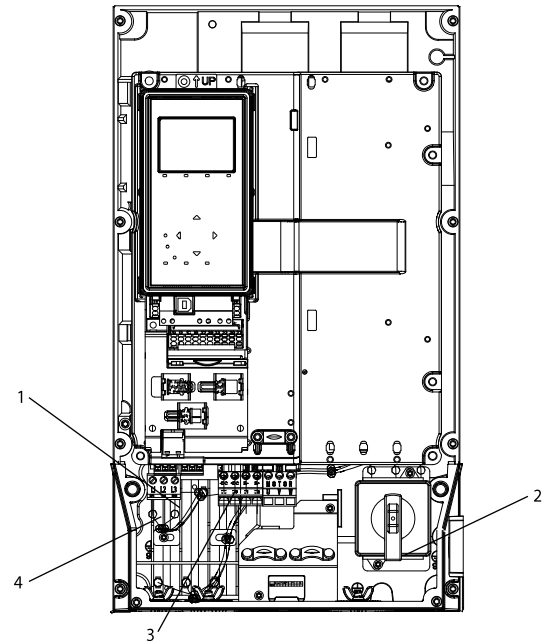


Illustration 1.1 Frames A2 and A3

1	Input power
2	Relays
3	Motor

Table 1.1 Legend to *Illustration 1.1*

130BD540.11



130BD541.11

Illustration 1.2 Frame A5

1	Drive fuses
2	Input power
3	Motor
4	Relays

Table 1.2 Legend to *Illustration 1.2*

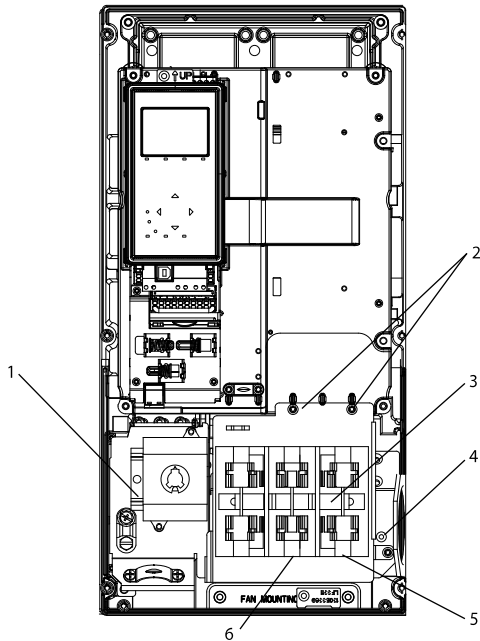
### 1.2 Fuse/Relay Locations for B and C Frames

The following illustrations show the input power, motor, and relay locations for B1, B2, C1, and C2 frame sizes.

**NOTICE**

Note that these locations are different than what is indicated in the Operating Instructions.

For B1 and B2 frame sizes, motor and relay connections are located under the drive fuse block. To access these connectors, loosen the three T-20 screws and move the fuse block out of the way. The fuse block does not need to be disassembled.

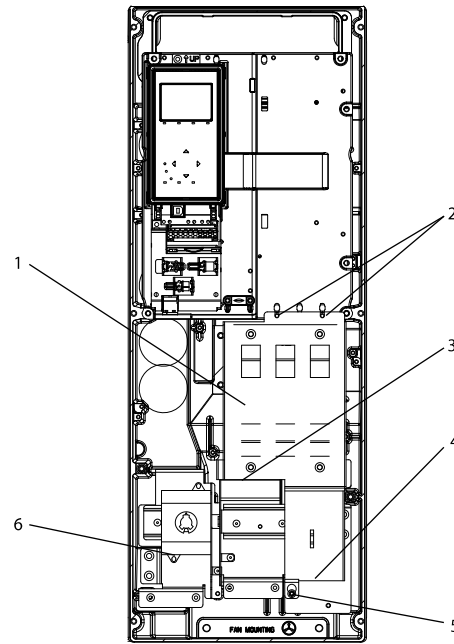


1308D542.11

Illustration 1.3 Frame B1

1	Input power
2	Loosen screws
3	Drive fuses
4	Loosen screw
5	Motor (remove fuse plate to connect)
6	Relays

Table 1.3 Legend to *Illustration 1.3*



1308D543.11

Illustration 1.4 Frame B2

1	Drive fuses
2	Loosen screws
3	Relays
4	Motor (remove fuse plate to connect)
5	Loosen screw
6	Input power

Table 1.4 Legend to *Illustration 1.4*

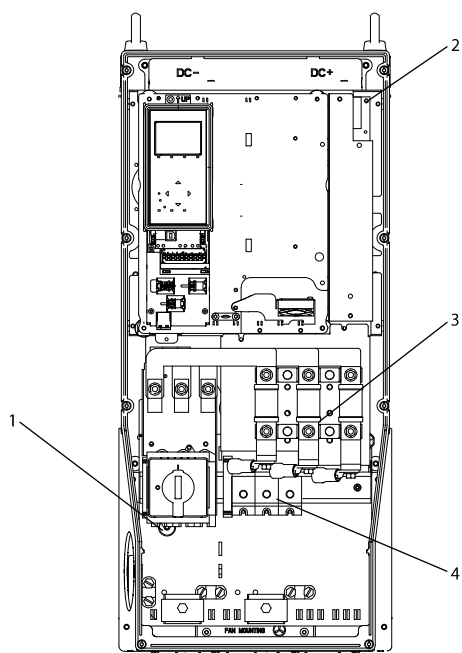


Illustration 1.5 Frame C1

1	Input power
2	Relays
3	Drive fuses
4	Motor

Table 1.5 Legend to *Illustration 1.5*

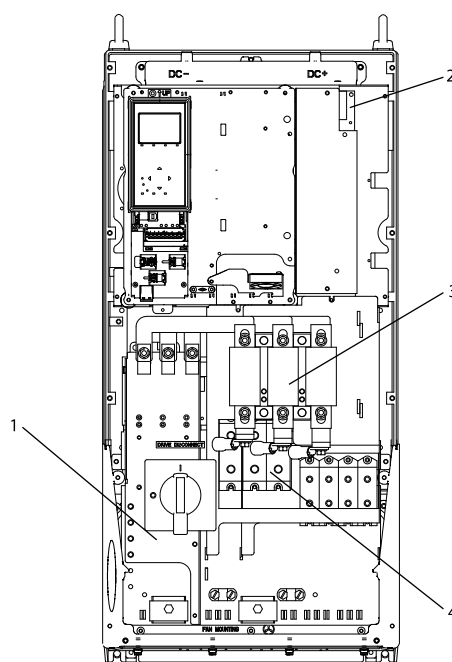


Illustration 1.6 Frame C2

1	Input power
2	Relays
3	Drive fuses
4	Motor

Table 1.6 Legend to *Illustration 1.6*

### 1.3 Voltage Ratings

[V]	FC 102/FC 202		FC 302	
	[HP]	[HP: NO]	[HP: HO]	[HP: HO]
208-230	1.5-5	—	1/4-5	
460-480	1.5-10	—	1/2-10	
575-600	1.5-10	—	1-10	

Table 1.7 Frames A1 - A3

[V]	FC 102/FC 202		FC 302	
	[HP]	[HP: NO]	[HP: HO]	[HP: HO]
208-230	7.5-15	10-15	7.5-10	
460-480	15-25	20-25	15-20	
575-600	15-25	15-25	15-20	

Table 1.8 Frame B1

[V]	FC 102/FC 202		FC 302	
	[HP]	[HP: NO]	[HP: HO]	[HP: HO]
208-230	20	20	15	
460-480	30-40	30-40	25-30	
575-600	30-40	30-40	25-30	

Table 1.9 Frame B2

[V]	FC 102/FC 202		FC 302	
	[HP]	[HP: NO]	[HP: HO]	[HP: HO]
208-230	25-30	25-30	20-25	
460-480	50-75	50-75	40-60	
575-600	50-75	50-75	40-60	

Table 1.10 Frame C1

[V]	FC 102/FC 202		FC 302	
	[HP]	[HP: NO]	[HP: HO]	[HP: HO]
208-230	40-60	40-60	30-50	
460-480	100-125	100-125	75-100	
575-600	100-125	100-125	75-100	

Table 1.11 Frame C2

### 1.4 Fuse Replacement Table

Drive Rating		FC 102/FC 202			FC 302		
[HP]	[kW]	208-230 V	460-480 V	575-600 V	208-230 V	460-480 V	575-600 V
0.5	0.37	n/a	n/a	n/a	LP-CC-5 5 A, 600 V, Class CC	LP-CC-6 6 A, 600 V, Class CC	n/a
0.75	0.55	n/a	n/a	n/a	LP-CC-10 10 A, 600 V, Class CC	LP-CC-6 6 A, 600 V, Class CC	n/a
1	0.75	n/a	n/a	n/a	LP-CC-10 10 A, 600 V, Class CC	LP-CC-6 6 A, 600 V, Class CC	LP-CC-5 5 A, 600 V, Class CC
1.5	1.1	LP-CC-10 10 A, 600 V, Class CC	LP-CC-6 6 A, 600 V, Class CC	LP-CC-5 5 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-6 6 A, 600 V, Class CC	LP-CC-5 5 A, 600 V, Class CC
2	1.5	LP-CC-15 15 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-15 15 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC
3	2.2	LP-CC-20 20 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-20 20 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC	LP-CC-10 10 A, 600 V, Class CC
4	3	LP-CC-25 25 A, 600 V, Class CC	LP-CC-15 15 A, 600 V, Class CC	LP-CC-15 15 A, 600 V, Class CC	LP-CC-25 25 A, 600 V, Class CC	LP-CC-15 15 A, 600 V, Class CC	LP-CC-15 15 A, 600 V, Class CC
5	3.7/4	LP-CC-30 30 A, 600 V, Class CC	LP-CC-20 20 A, 600 V, Class CC	LP-CC-20 20 A, 600 V, Class CC	LP-CC-30 30 A, 600 V, Class CC	LP-CC-20 20 A, 600 V, Class CC	LP-CC-20 20 A, 600 V, Class CC
7.5	5.5	JJN-50 50 A, 300 V, Class T	LP-CC-25 25 A, 600 V, Class CC	LP-CC-25 25 A, 600 V, Class CC	LP-CC-50 50 A, 600 V, Class CC	LP-CC-25 25 A, 600 V, Class CC	LP-CC-25 25 A, 600 V, Class CC
10	7.5	JJN-50 50 A, 300 V, Class T	LP-CC-30 30 A, 600 V, Class CC	LP-CC-30 30 A, 600 V, Class CC	JJN-60 60 A, 300 V, Class T	LP-CC-30 30 A, 600 V, Class CC	LP-CC-30 30 A, 600 V, Class CC
15	11	JJN-60 60 A, 300 V, Class T	JJS-40 40 A, 600 V, Class T	JJS-35 35 A, 600 V, Class T	JJN-80 80 A, 300 V, Class T	JJS-40 40 A, 600 V, Class T	JJS-35 35 A, 600 V, Class T
20	15	JJN-80 80 A, 300 V, Class T	JJS-40 40 A, 600 V, Class T	JJS-35 35 A, 600 V, Class T	JJN-125 125 A, 300 V, Class T	JJS-50 50 A, 600 V, Class T	JJS-45 45 A, 600 V, Class T
25	18.5	JJN-125 125 A, 300 V, Class T	JJS-50 50 A, 600 V, Class T	JJS-45 45 A, 600 V, Class T	JJN-125 125 A, 300 V, Class T	JJS-60 60 A, 600 V, Class T	JJS-50 50 A, 600 V, Class T

Drive Rating		FC 102/FC 202			FC 302		
[HP]	[kW]	208-230 V	460-480 V	575-600 V	208-230 V	460-480 V	575-600 V
30	22	JJN-125 125 A, 300 V, Class T	JJS-60 60 A, 600 V, Class T	JJS-50 50 A, 600 V, Class T	FWX-150A 150 A, 250 V	JJS-80 80 A, 600 V, Class T	JJS-60 60 A, 600 V, Class T
40	30	FWX-150A 150 A, 250 V	JJS-80 80 A, 600 V, Class T	JJS-60 60 A, 600 V, Class T	FWX-200A 200 A, 250 V	JJS-100 100 A, 600 V, Class T	JJS-80 80 A, 600 V, Class T
50	37	FWX-200A 200 A, 250 V	JJS-100 100 A, 600 V, Class T	JJS-80 80 A, 600 V, Class T	FWX-250A 250 A, 250 V	JJS-125 125 A, 600 V, Class T	JJS-100 100 A, 600 V, Class T
60	45	FWX-250A 250 A, 250 V	JJS-125 125 A, 600 V, Class T	JJS-100 100 A, 600 V, Class T	n/a	JJS-150 150 A, 600 V, Class T	JJS-125 125 A, 600 V, Class T
75	55	n/a	JJS-150 150 A, 600 V, Class T	JJS-125 125 A, 600 V, Class T	n/a	FWH-200B 200 A, 500 V	JJS-150 150 A, 600 V, Class T
100	75	n/a	FWX-200A 200 A, 500 V	JJS-150 150 A, 600 V, Class T	n/a	FWH-250A 250 A, 500 V	JJS-175 175 A, 600 V, Class T
125	90	n/a	FWX-250A 250 A, 500 V	JJS-175 175 A, 600 V, Class T	n/a	n/a	n/a

**Table 1.12 Fuse Replacement**

For hp/kW sizes not shown in this chart, see the supplied FC 102, FC 202, or FC 302 Operating Instructions.

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