

FlexPak 3000 DC Drives and WebPak 3000 DC Drives Replacement Parts

Instruction Manual D2-3438-4

Effective Date: July 22, 2005



ATTENTION: Only qualified electrical personnel familiar with the construction of this equipment and the hazards involved should install, adjust, operate, and/or service this equipment. Read and understand the applicable FlexPak 3000 hardware manual in its entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

ATTENTION: Equipment is at line voltage when AC power is connected. Disconnect and lock out all ungrounded conductors of the AC power line before checking wiring. Failure to observe this precaution could result in severe bodily injury or loss of life.

ATTENTION: Replacing fuses with different ratings other than the ratings supplied with the original equipment can cause damage to the equipment. Replace fuses only with the same current, voltage, and class rating as supplied with the original equipment. Failure to observe this precaution could result in damage to, or destruction of, the equipment.

The table that follows lists replacement parts for FlexPak™ 3000 DC drives and WebPak™ 3000 DC drives. Unless noted, the replacement parts are the same for both drives.

Note: All parts are subject to change. Please call Reliance Electric for the latest part information.

These parts are available from your local Reliance Electric Distributor or direct from Reliance Electric Company:

Reliance Electric Company
Cleveland Service Center
375 Alpha Drive
High and Heights, Ohio 44143
Order Entry Phone: 440-616-6650
Fax: 440-616-6618

This document is available as an electronic file for downloading only.

Reliance, FlexPak, and WebPak are trademarks of Rockwell Automation.

© 2005 Rockwell Automation. All rights reserved.

Rockwell
Automation

FlexPak 3000 and WebPak 3000 DC Drive Replacement Parts

[illegible]

FlexPak 3000 and WebPak 3000 DC Drive Replacement Parts

Part Description	Quantity Per Drive	Part Number
Armature Fuse (11FU, 58R ONLY) (Bussman series FMP up to 75 HP @ 230 VAC; 150 HP @ 460 VAC):		
1.5 HP @ 230 VAC/3 HP @ 460 VAC	1	64878-130AGX (15A, 700V)
2 HP @ 230 VAC/5 HP @ 460 VAC	1	64878-130AHX (20A, 700V)
3 HP @ 230 VAC/7.5 HP @ 460 VAC	1	64878-130AJX (25A, 700V)
5 HP @ 230 VAC/10 HP @ 460 VAC	1	64878-130ALX (35A, 700V)
7.5 HP @ 230 VAC/15 HP @ 460 VAC	1	64878-130AMX (40A, 700V)
10 HP @ 230 VAC/20 HP @ 460 VAC	1	64878-130ANX (50A, 700V)
25 HP @ 460 VAC	1	64878-130APX (80A, 700V)
15 HP @ 230 VAC/30 HP @ 460 VAC	1	64878-130AQX (75A, 700V)
20 thru 25 HP @ 230 VAC/10 thru 50 HP @ 460 VAC	1	64878-130ALX (125A, 700V)
30 HP @ 230 VAC/60 HP @ 460 VAC	1	64878-130AVX (130A, 700V)
40 HP @ 230 VAC/75 HP @ 460 VAC	1	64878-130AXX (200A, 700V)
50 HP @ 230 VAC/100 HP @ 460 VAC	1	64878-130AYX (250A, 700V)
60 HP @ 230 VAC/125 HP @ 460 VAC	1	64878-130AZX (300A, 700V)
75 HP @ 230 VAC/150 HP @ 460 VAC	1	64878-130BAX (350A, 700V)
7 Amp Rated Output	1	64878-130AGX (15 A, 700V)
28 Amp Rated Output	1	64878-130AMX (40 A, 700V)
55 Amp Rated Output	1	64878-130AQX (75 A, 700V)
110 Amp Rated Output	1	64878-130AVX (130 A, 700V)
225 Amp Rated Output	1	64878-130BAX (350 A, 700V)
Power Supply Fuse (12FJ)	1	64878-21AF (1.0A, 250 V)
Current Transformer (1CT, 3CT):		(TpTn)
1.5 HP @ 230 VAC/3 HP @ 460 VAC	2	610273-12" V (833/8)
2 thru 7.5 HP @ 230 VAC / 1 thru 15 HP @ 460 VAC	2	610273-12" T (635/4)
10 thru 15 HP @ 230 VAC/20 thru 30 HP @ 460 VAC	2	610273-12" S (833/2)
20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 460 VAC	2	610273-12" N (635/1)
40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 460 VAC	2	610274-21R (2005/1)
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC	2	610275-41R (5235/1)
100 thru 600 HP @ 460 VAC	2	610276-53R (7775/1)
7 Amp Rated Output	2	610273-12" V (833/8)
28 Amp Rated Output	2	610273-12" T (635/4)
55 Amp Rated Output	2	610273-12" S (833/2)
110 Amp Rated Output	2	610273-12" N (635/1)
225 Amp Rated Output	2	610274-21R (2005/1)
Armature Power Semiconductors:	56	567
1.5 thru 15 HP @ 230 VAC/3 thru 30 HP @ 460 VAC	2	701618-308AW (before Jan, 1999)
	2	173" 2B-G01 (after Jan, 1999)
20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 460 VAC	6	701618-208AW
40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 460 VAC	6	701618-205AW
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC	6	12 610275-10R
100 thru 600 HP @ 460 VAC	6	12 410403-79AZ
7 thru 35 Amp Rated Output	2	701618-308AW (before Jan, 1999)
	2	173" 2B-G01 (after Jan, 1999)
110 Amp Rated Output	6	701618-208AW
225 Amp Rated Output	6	701618-205AW
di/dt and Gate Drivers:	56	567
100 thru 600 HP @ 460 VAC	3	O-56706-1
	3	O-56706-10
MOV Suppressor Assembly (1SSR):		
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC	1	610275-52R
100 thru 600 HP @ 460 VAC	1	802276-615R

FlexPak 3000 and WebPak 3000 DC Drive Replacement Parts

Part Description	Quantity Per Drive	Part Number
Coil Surge Suppressor (2SSR)	1	800388-23A
Surge Suppressor Resistor Assembly (R1): 1.5 thru 15 HP @ 230 VAC/3 thru 30 HP @ 460 VAC 20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 460 VAC 40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 460 VAC 100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC 400 thru 600 HP @ 460 VAC 7 thru 55 Amp Rated Output 110 Amp Rated Output 265 Amp Rated Output	N/R 2 2 1 1 N/R 2 2	Not Required 83481-101TAA (two 10K, 40W in series) 83481-102TAA (two 10K, 50W in parallel) 802275-41R (six 10K, 100W in parallel) 802272-13T (six 7.5K, 200W in parallel) Not Required 83481-101TAA (two 10K, 40W in series) 83481-102TAA (two 10K, 50W in parallel)
Surge Suppressor (C1): 1.5 thru 15 HP @ 230 VAC/3 thru 30 HP @ 460 VAC 20 HP thru 30 HP @ 230 VAC/40 thru 60 HP @ 460 VAC 40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 460 VAC 100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC 400 thru 600 HP @ 460 VAC 7 thru 55 Amp Rated Output 110 Amp Rated Output 265 Amp Rated Output	N/R 1 1 1 1 3 N/R 1 1	Not Required 86058-49PH (2µF, 1500VDC) 86058-49PO (4µF, 1500VDC) 81032/5-42R (8µF, 1500 VDC) 802276-819R (3µF, 1500 VDC) Not Required 86058-49PH (2µF, 1500 VDC) 86058-49PO (4µF, 1500VDC)
Surge Suppressor Rectifier HeatSink Assembly: 100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 460 VAC	1	802275-40R
Power Unit Fan: 1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 460 VAC 7.5 thru 30 HP @ 230 VAC/15 thru 60 HP @ 460 VAC 40 thru 50 HP @ 230 VAC/75 thru 100 HP @ 460 VAC 80 thru 75 HP @ 230 VAC/125 thru 150 HP @ 460 VAC 100 HP @ 230 VAC/200 HP @ 460 VAC 125 thru 150 HP @ 230 VAC/250 thru 300 HP @ 460 VAC 600 HP @ 460 VAC 7 Amp Rated Output 28 thru 110 Amp Rated Output 265 Amp Rated Output	N/R 1 1 1 1 2 2 4 N/R 1 1	Not Required 89739-27X 89739-20R 89739-6R 89739-20R 89739-6R 89739-6R Not Required 89739-27X 89739-6R
Flick Supply Assembly: <u>FlexPak 3000</u> 1.5 thru 15 HP @ 230 VAC/3 thru 30 HP @ 460 VAC 20 thru 30 HP @ 230 VAC/40 thru 125 HP @ 460 VAC 75 thru 150 HP @ 230 VAC/150 thru 600 HP @ 460 VAC 7 thru 55 Amp Rated Output 110 Amp Rated Output 265 Amp Rated Output <u>WebPak 3000</u> 1.5 thru 15 HP @ 230 VAC/3 thru 30 HP @ 460 VAC 20 thru 75 HP @ 230 VAC/40 thru 150 HP @ 460 VAC	1 1 1 1 1 1 1 1 1	179537 179538 611FK0151 179537 179538 611FK0151 611FK0101 611FK0151
Control Transformer (CCT): 1.5 thru 30 HP @ 230 VAC/3 thru 60 HP @ 460 VAC 40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 460 VAC 100 HP @ 230 VAC/200 HP @ 460 VAC 125 thru 150 HP @ 230 VAC/250 thru 300 HP @ 460 VAC 400 thru 600 HP @ 460 VAC 600 HP @ 460 VAC 7 thru 110 Amp Rated Output 265 Amp Rated Output	1 1 1 1 1 1 1 1 1	417-55-6R (150VA) 417-55-8 (350VA) 417-55-T (500VA) 417-55-RB (750VA) 417-55-8B (750VA) 417-55-RV (1000VA) 411027-128A 411027-128B

FlexPak 3000 and WebPak 3000 DC Drive Replacement Parts

Part Description	Quantity Per Drive	Part Number
FV Controller:		
1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 480 VAC	1	100-C12D10
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 480 VAC	1	100-C30D10
15 thru 30 HP @ 230 VAC/25 thru 60 HP @ 480 VAC	1	173517 (prior to June 2000)
	1	100-C35D10 (after June 2000)
40 HP @ 230 VAC/75 HP @ 480 VAC	1	705510-68A or retrofit. to 100-D180 with 374203-A01 (prior to September 2005)
50 thru 75 HP @ 230 VAC/100 thru 150 HP @ 480 VAC	1	705510-70A or retrofit. to 100-D180 with 374203-A01 (prior to September 2005)
40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 480 VAC	1	100-D160D00 plus 100-DS1-B11 (after September 2005)
100 thru 125 HP @ 230 VAC/200 thru 250 HP @ 480 VAC	1	705510-71A or retrofit. to 100-D180 with 374203-A01 (prior to September 2005)
150 HP @ 230 VAC/300 HP @ 480 VAC	1	705510-72A or retrofit. to 100-D180 with 374203-A02 (prior to September 2005)
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 480 VAC	1	100-D120ED00 plus 100-DS1-B11 (after September 2005)
7 Amp Rated Output	1	100-C12D10
28 Amp Rated Output	1	100-C30D10
55 Amp Rated Output		173517 (before June 2000)
		100-C35D10 (after June 2000)
110 Amp Rated Output		173517 (before June 2000)
		100-C35D10 (after June 2000)
255 Amp Rated Output		705510-70A or retrofit. to 100-D180 with 374203-A01 (prior to September 2005)
		100-D160D00 plus 100-DS1-B11 (after September 2005)
M Controller:		
400 HP @ 480 VAC	1	705510-131-A
500 to 800 HP @ 480 VAC	1	705510-211-A
AC Line Disconnect:		
1.5 thru 25 HP @ 230 VAC/3 thru 50 HP @ 480 VAC	1	55242-100NSX
30 HP @ 230 VAC/50 HP @ 480 VAC	1	55242-100SSX
40 thru 80 HP @ 230 VAC/75 thru 125 HP @ 480 VAC	1	55242-200ZSX
75 HP @ 230 VAC/150 HP @ 480 VAC	1	55242-300FSX
100 HP @ 230 VAC/200 HP @ 480 VAC	1	55242-300FSX
125 thru 150 HP @ 230 VAC/250 thru 300 HP @ 480 VAC	1	55242-400JSX
400 thru 500 HP @ 480 VAC	1	55242-500LSX
600 HP @ 480 VAC	1	55242-500NSX
7 thru 55 Amp Rated Output	1	55242-100NSX
110 Amp Rated Output	1	55242-100SSX
255 Amp Rated Output	1	55242-300FSX
Regulator PCB (FlexPak 3000)	1	M/N 320FK0042
Regulator PCB (WebPak 3000)	1	M/N 320W40011
Power Supply Board PCB	1	O-56771
CIM PCB (FlexPak 3000)	1	160572-A01
CIM PCB (WebPak 3000)	1	160571-A01
CIM Assembly (Keypad/Display) (FlexPak 3000)	1	M/N 317C160D
CIM Assembly (Keypad/Display) (WebPak 3000)	1	M/N 325W40101
DCM PCB	1	O-56777-300
DCM Assembly (Keypad/Display)	1	802273-80D
Delay Rectifier PCB	1	O-56718

FlexPak 3000 and WebPak 3000 DC Drive Replacement Parts

Part Description	Quantity Per Drive	Part Number	
Power I/F PCB		Std	StdB
1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 480 VAC	1	O-SB706-19 (before Jan 1999; 179125 (after Jan 1999)	O-58708-18 (before Jan 1999; 179124 (after Jan 1999)
7.5 thru 15 HP @ 230 VAC/15 thru 30 HP @ 480 VAC	1	O-SB706-20 (before Jan 1999; 179127 (after Jan 1999)	O-58708-17 (before Jan 1999; 179126 (after Jan 1999)
20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 480 VAC	1	O-SB706-21	179679-A02
40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 480 VAC	1	180041-A01	179678
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 480 VAC	1	O-SB706-03	O-58708-32
400 thru 600 HP @ 480 VAC	1	O-SB706-43	O-58708-42
7 Amp Rated Output	1	O-SB706-19 (before Jan 1999; 179125 (after Jan 1999)	O-58708-16 (before Jan 1999; 179124 (after Jan 1999)
29 Amp Rated Output	1	O-SB706-20 (before Jan 1999; 179127 (after Jan 1999)	O-58708-17 (before Jan 1999; 179126 (after Jan 1999)
110 Amp Rated Output	1	O-SB706-21	O-58708-18
265 Amp Rated Output	1	180041-A01	179678
Inverting Fault Breaker			
1.5 thru 2 HP @ 230 VAC/3 thru 5 HP @ 480 VAC	1	77801-180XA Set at A (40 A)	
3 thru 5 HP @ 230 VAC/7.5 thru 10 HP @ 480 VAC	1	419005-100DSA Set at L (50 A)	
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 480 VAC	1	419005-100HSA Set at 2 (90 A)	
15 thru 20 HP @ 230 VAC/25 thru 40 HP @ 480 VAC	1	419005-100NSA Set at L (110 A)	
25 thru 30 HP @ 230 VAC/50 thru 60 HP @ 480 VAC	1	419005-100SSA Set at L (450 A)	
40 thru 60 HP @ 230 VAC/75 thru 125 HP @ 480 VAC	1	419005-200ZSA Set at 2 (470 A)	
75 HP @ 230 VAC/150 HP @ 480 VAC	1	419005-300FSA Set at 2 (625 A)	
100 HP @ 230 VAC/200 HP @ 480 VAC	1	419005-400A.SA Set at 2 (800 A)	
125 HP @ 230 VAC/250 HP @ 480 VAC	1	419005-400A.SA Set at 4 (~1100 A)	
150 HP @ 230 VAC/300 HP @ 480 VAC	1	419005-400A.SA Set at HI (1250 A)	
400 HP @ 480 VAC	1	419005-600QSA Set at 2 (1900 A)	
500 HP @ 480 VAC	1	419005-600QSA Set at 3 (2300 A)	
600 HP @ 480 VAC	1	419005-600QSA Set at 4 (2600 A)	
7 Amp Rated Output	1	77801-180XA Set at A (40 A)	
29 Amp Rated Output	1	419005-100HSA Set at 2 (90 A)	
50 Amp Rated Output	1	419005-100NSA Set at L (110 A)	
110 Amp Rated Output	1	419005-100SSA Set at L (450 A)	
265 Amp Rated Output	1	419005-300FSA Set at 2 (625 A)	
Heat Sink Assembly	1	Std	StdB
1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 480 HP	1	802273-308V	802274-307V
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 480 HP	1	802273-308T	802270-307T
25 HP @ 480 HP	1	802273-308SA	802274-307SA
15 HP @ 230 VAC/30 HP @ 480 HP	1	802273-308S	802274-307S
20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 480 HP	1	802273-208R	802270-208S
40 thru 75 HP @ 230 VAC/75 thru 150 HP @ 480 HP	1	802274-206R	802274-207R
100 thru 150 HP @ 230 VAC/200 thru 300 HP @ 480 VAC	3	802275-2R	802276-3R
7 Amp Rated Output	1	802273-308V	802270-307V
29 Amp Rated Output	1	802273-308T	802274-307T
50 Amp Rated Output	1	802273-308S	802274-307S
110 Amp Rated Output	1	802273-208R	802270-208S
265 Amp Rated Output	1	802274-206R	802274-207R