

FlexPak 3000 Digital DC Drives



Applications: Three-phase DC drive for regenerative and non-regenerative industrial applications from 1-1/2 to 600 Hp

Features: Flexible design allows for adaptability and use in many demanding applications. The Operator Interface Module has a keypad panel and easy to read graphics LCD display. Simple to set up and use with a step by step "Quick Start" program. Operating status and diagnostic information as well as help text aids in set up and operation. The drive may be operated from the OIM or from a remotely mounted control station.

230 VAC, 50/60 Hz, Non-Regenerative; 1-1/2 Hp-30 Hp

230 VAC drives use equivalent rated 460 VAC drive models listed below with required 916FK0100 460 VAC/230 VAC conversion kits

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
1-1/2	10	7	10	3FN4042	VS50D	3,870
2	11	9	10	5FN4042	VS50D	3,870
3	13	12	10	7FN4042	VS50D	3,870
5	19	20	10	10FN4042	VS50D	3,885
7-1/2	26	29	10	15FN4042	VS50D	4,040
10	33	38	10	20FN4042	VS50D	4,070
15	48	55	10	30FN4042	VS50D	4,385
20	63	73	15	40FN4042	VS50D	4,815
25	80	93	15	50FN4042	VS50D	5,025
30	94	110	15	60FN4042	VS50D	5,090

230 VAC, 50/60 Hz, Regenerative; 1-1/2 Hp-30 Hp

230 VAC drive use equivalent rated 460 VAC drive models listed below with required 916FK0100 460 VAC/230 VAC conversion kits

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
1-1/2	10	7	10	3FR4042	VS50D	4,380
2	11	9	10	5FR4042	VS50D	4,380
3	13	12	10	7FR4042	VS50D	4,380
5	19	20	10	10FR4042	VS50D	4,395
7-1/2	26	29	10	15FR4042	VS50D	4,550
10	33	38	10	20FR4042	VS50D	4,580
15	48	55	10	30FR4042	VS50D	4,895
20	63	73	15	40FR4042	VS50D	5,425
25	80	93	15	50FR4042	VS50D	5,635
30	94	110	15	60FR4042	VS50D	5,700

Dimensions

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 230 VAC, (460 VAC Converted), model numbers, 1-1/2 through 30 Hp	10.65 (270.5)	18.79 (477.3)	12.23 (310.6)	58 (26.4)

HVAC Motors

Farm Duty Motors

Definite Purpose Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes

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230 VAC, 50/60 Hz, Non-Regenerative; 40 Hp-75 Hp

230 VAC drive models listed below use equivalent rated 460 VAC drive models with 916FK0200 460 VAC/230 VAC conversion kits provided.

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
40	125	146	15	75FN4042	VS50D	\$6,120
50	154	180	15	100FN4042	VS50D	6,835
60	186	218	15	125FN4042	VS50D	7,140
75	226	265	15	150FN4042	VS50D	7,750

230 VAC, 50/60 Hz, Regenerative; 40 Hp-75 Hp

230 VAC drive models listed below use equivalent rated 460 VAC drive models with 916FK0200 460 VAC/230 VAC conversion kits provided.

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
40	125	146	15	75FR4042	VS50D	\$6,935
50	154	180	15	100FR4042	VS50D	7,650
60	186	218	15	125FR4042	VS50D	7,955
75	226	265	15	150FR4042	VS50D	8,570

Dimensions

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 230 VAC model numbers, 40 through 75 Hp	18.11 (460)	4.90 (124.47)	13.46 (341.9)	122 (55)

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230 VAC, 50/60 Hz, Non-Regenerative; 100 Hp-150 Hp

230 VAC model numbers do not exist for these Hp ratings. Use a 460 VAC drive at 2X Hp rating and reconnect control power transformer for 230VAC operation at startup.

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
100	307	360	15	200FN4042	VS50D	12,035
125	370	434	15	250FN4042	VS50D	12,545
150	443	521	15	300FN4042	VS50D	12,545

230 VAC, 50/60 Hz, Regenerative; 100 Hp-150 Hp

230 VAC model numbers do not exist for these Hp ratings. Use a 460 VAC drive at 2X Hp rating and reconnect control power transformer for 230VAC operation at startup.

240 VDC Armature; 150 VDC Field

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
100	307	360	15	200FB4042	VS50D	19,100
125	370	434	15	250FB4042	VS50D	19,360
150	443	521	15	300FB4042	VS50D	20,300

Dimensions Shown for 460VAC Models

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 230 VAC drives, 100 through 150 Hp, (All 460 VAC model numbers, 200 through 300 Hp)	23.6 (599)	33.5 (850)	16.7 (424.7)	220.5 (100.0)

NOTE: Option kits may add additional mounting depth. Please allow adequate clearance when option kits are mounted on the drive package.

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**460 VAC, 50/60 Hz, Non-Regenerative; 3 Hp-60 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
3	10	6	10	3FN4042	VS50D	3,870
5	12	10	10	5FN4042	VS50D	3,870
7.5	15	14	10	7FN4042	VS50D	3,870
10	18	19	10	10FN4042	VS50D	3,885
15	24	27	10	15FN4042	VS50D	4,040
20	31	35	10	20FN4042	VS50D	4,070
25	39	45	10	25FN4042	VS50D	4,335
30	45	52	10	30FN4042	VS50D	4,385
40	63	73	15	40FN4042	VS50D	4,815
50	74	86	15	50FN4042	VS50D	5,025
60	86	100	15	60FN4042	VS50D	5,090

**460 VAC, 50/60 Hz, Regenerative; 3 Hp-60 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
3	10	6	10	3FR4042	VS50D	4,380
5	12	10	10	5FR4042	VS50D	4,380
7.5	15	14	10	7FR4042	VS50D	4,380
10	18	19	10	10FR4042	VS50D	4,395
15	24	27	10	15FR4042	VS50D	4,550
20	31	35	10	20FR4042	VS50D	4,580
25	39	45	10	25FR4042	VS50D	4,845
30	45	52	10	30FR4042	VS50D	4,895
40	63	73	15	40FR4042	VS50D	5,425
50	74	86	15	50FR4042	VS50D	5,635
60	86	100	15	60FR4042	VS50D	5,700

Dimensions

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 460 VAC model numbers, 3 through 60 Hp	10.65 (270.5)	18.79 (477.3)	12.23 (310.6)	58 (26.4)

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**460 VAC, 50/60 Hz, Non-regenerative; 75 Hp-150 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
75	110	129	15	75FN4042	VS50D	6,120
100	143	167	15	100FN4042	VS50D	6,835
125	177	207	15	125FN4042	VS50D	7,140
150	213	250	15	150FN4042	VS50D	7,750

**460 VAC, 50/60 Hz, Regenerative; 75 Hp-150 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
75	110	129	15	75FR4042	VS50D	6,935
100	143	167	15	100FR4042	VS50D	7,650
125	177	207	15	125FR4042	VS50D	7,955
150	213	250	15	150FR4042	VS50D	8,570

Dimensions

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 460 VAC model numbers, 75 through 150 Hp	18.11 (460)	19.29 (490)	13.46 (341.9)	122 (55)

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**460 VAC, 50/60 Hz, Non-Regenerative; 200 Hp-300 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
200	281	330	15	200FN4042	VS50D	12,035
250	351	412	15	250FN4042	VS50D	12,545
300	421	495	15	300FN4042	VS50D	12,545

**460 VAC, 50/60 Hz, Regenerative; 75 Hp-150 Hp
500 VDC Armature; 300 VDC Field**

Hp Rating	Full Load RMS AC Line Current	Full Load Rated DC Armature Current	Rated Field Current	Model Number	Mult. Sym.	List Price
200	281	330	15	200FB4042	VS50D	19,100
250	351	412	15	250FB4042	VS50D	19,360
300	421	495	15	300FB4042	VS50D	20,300

Dimensions

Model Number	Width Inches (mm)	Height Inches (mm)	Depth Inches (mm)	Weight lbs (kg)
All 460 VAC model numbers, 200 through 300 Hp	23.6 (599)	33.5 (850)	16.7 (424.7)	220.5 (100)

NOTE: Option kits may add additional mounting depth. Please allow adequate clearance when option kits are mounted on the drive package.

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