

VARIDYNE® 2

Variable Frequency Drives

APPLICATIONS:

For use where precise open-loop speed control is required with a 3-phase induction motor; Pumps, Blowers, Fans, Conveyors, Material Handling, Hoists, Extruders, Mixers and agitators, etc.

FEATURES:

- Open Loop Vector Control - Speed or Torque
- Switching Frequency Range: 3kHz - 18kHz - Quiet Motor Operation
- Built-in EMC Filter
- Output Frequency : 0-1500 Hz
- Programming of Just Ten Parameters is Typically Sufficient to Setup 80% of Applications
- Easy Setup - All Parameters for Basic Usage on Front Panel
- RS485, Modbus RTU Communications Port Standard (RJ45 Connector)
- 8 Preset Speeds
- Dynamic Braking Transistor as Standard
- Fan and Pump Optimization with Quadratic Motor Flux V/Hz
- For List of Accessories go to www.usmotors.com/vfd

110/120 VAC ±10%, Single Phase 50/60 Hz Input, 3-Phase Output

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
Heavy-Duty Rated Only			0.25	1/3	1.7	VFKA1100025	\$361	DS-5EV	A
			0.37	1/2	2.2	VFKA1100037	\$402	DS-5EV	A
			0.75	1	4	VFKB1100075	\$417	DS-5EV	B
			1.1	1.5	5.2	VFKB1100110	\$511	DS-5EV	B

200-240 VAC ±10%, Single Phase 50/60 Hz Input, 3-Phase Output

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
Heavy-Duty Rated Only			0.25	1/3	1.7	VFKA1200025	\$429	DS-5EV	A
			0.37	1/2	2.2	VFKA1200037	\$456	DS-5EV	A
			0.55	3/4	3	VFKA1200055	\$475	DS-5EV	A
			0.75	1	4	VFKA1200075	\$491	DS-5EV	A
			1.1	1-1/2	5.2	VFKBD200110	\$510	DS-5EV	B
			1.5	2	7	VFKBD200150	\$610	DS-5EV	B
			2.2	3	9.6	VFKCD200220	\$719	DS-5EV	C
			3	3	12.6	VFKDD200300	\$833	DS-5EV	D

200/240 VAC ±10%, 3-Phase Input and Output, 50/60 Hz Input

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
Heavy-Duty Rated Only			1.1	1-1/2	5.2	VFKBD200110	\$510	DS-5EV	B
			1.5	2	7	VFKBD200150	\$610	DS-5EV	B
			2.2	3	9.6	VFKCD200220	\$719	DS-5EV	B
			3	3	12.6	VFKDD200300	\$833	DS-5EV	D
			3	5	17	VFKD3200400	\$891	DS-5EV	D
4	5	15.5	3	3	12.6	VFK2201	\$1,200	DS-5EV	2
5.5	7-1/2	22	4	5	17	VFK2202	\$1,341	DS-5EV	2
7.5	10	28	5.5	7-1/2	25	VFK2203	\$1,547	DS-5EV	2
11	15	42	7.5	10	31	VFK3201	\$2,226	DS-5EV	3
15	20	54	11	15	42	VFK3202	\$2,826	DS-5EV	3
18.5	25	68	15	20	56	VFK4201	\$4,649	DS-5EV	4
22	30	80	18.5	25	68	VFK4202	\$5,541	DS-5EV	4
30	40	104	22	30	80	VFK4203	\$5,982	DS-5EV	4

HP/kW Are Indicative Only; Use Motor FLA for Drive Sizing.

VARIDYNE® 2

Variable Frequency Drives

380/480 VAC ±10%, 3-Phase Input and Output, 50/60 Hz Input

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
0.37	1/2	1.3	0.37	1/2	1.3	VFKB3400037	\$476	DS-5EV	B
0.55	3/4	1.7	0.55	3/4	1.7	VFKB3400055	\$518	DS-5EV	B
0.75	1	2.1	0.75	1	2.1	VFKB3400075	\$568	DS-5EV	B
1.1	1-1/2	2.8	1.1	1-1/2	2.8	VFKB3400110	\$633	DS-5EV	B
1.5	2	3.8	1.5	2	3.8	VFKB3400150	\$695	DS-5EV	B
2.2	3	5.1	2.2	3	5.1	VFKC3400220	\$772	DS-5EV	C
4	5	9	4	5	9	VFKC3400400	\$975	DS-5EV	C
5.5	7-1/2	13	5.5	7-1/2	13	VFKD3400550	\$1,166	DS-5EV	D
7.5	10	16.5	7.5	10	16.5	VFKD3400750	\$1,301	DS-5EV	D
7.5	10	15.3	5.5	10	13	VFK2401	\$1,694	DS-5EV	2
11	15	21	7.5	10	16.5	VFK2402	\$1,739	DS-5EV	2
15	20	29	11	20	25	VFK2403	\$2,098	DS-5EV	2
15	20	29	15	20	29	VFK2404	\$2,584	DS-5EV	2
18.5	25	35	15	25	32	VFK3401	\$2,843	DS-5EV	3
22	30	43	18.5	30	40	VFK3402	\$3,659	DS-5EV	3
30	40	56	22	30	46	VFK3403	\$4,619	DS-5EV	3
37	50	68	30	50	60	VFK4401	\$6,133	DS-5EV	4
45	60	83	37	60	74	VFK4402	\$7,338	DS-5EV	4
55	75	104	45	75	96	VFK4403	\$8,475	DS-5EV	4
75	100	138	55	100	124	VFK5401	\$10,556	DS-5EV	5
90	125	168	75	125	156	VFK5402	\$12,070	DS-5EV	5
110	150	205	90	150	180	VFK6401	\$17,203	DS-5EV	6*
132	200	236	110	150	210	VFK6402	\$19,899	DS-5EV	6*

575 VAC ±10%, 3-Phase Input and Output, 50/60 Hz Input

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
3	3	5.4	2.2	2	4.1	VFK3501	\$2,320	DS-5EV	3
4	5	6.1	3	3	5.4	VFK3502	\$2,385	DS-5EV	3
5.5	7-1/2	8.4	4	5	6.1	VFK3503	\$2,509	DS-5EV	3
7.5	10	11	5.5	7-1/2	9.5	VFK3504	\$2,647	DS-5EV	3
11	15	16	7.5	10	12	VFK3505	\$3,262	DS-5EV	3
15	20	22	11	15	18	VFK3506	\$3,715	DS-5EV	3
18.5	25	24.6	15	20	22	VFK3507	\$4,444	DS-5EV	3
22	30	36	18.5	25	27	VFK4603	\$7,114	DS-5EV	4
30	40	43	22	30	36	VFK4604	\$8,075	DS-5EV	4
37	50	52	30	40	43	VFK4605	\$9,368	DS-5EV	4
45	60	62	37	50	52	VFK4606	\$10,763	DS-5EV	4
55	75	84	45	60	63	VFK5601	\$13,409	DS-5EV	5
75	100	99	55	75	85	VFK5602	\$15,243	DS-5EV	5
90	125	125	75	100	100	VFK6601	\$16,297	DS-5EV	6*
110	150	144	90	125	125	VFK6602	\$18,043	DS-5EV	6*

HP/kW Are Indicative Only; Use Motor FLA for Drive Sizing.

*Frame 6 Units require external 24V DC, 4.5A power supply for VFD cooling fan; power supply to be procured by customer separately

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Variable Frequency Drives

BRAKE
MOTORSGENERAL PURPOSE
SINGLE PHASE

HVAC

WASHDOWN

AGRICULTURE

COMMERCIAL PUMP
MOTORSCLOSE COUPLED
PUMP MOTORSFIRE PUMP
MOTORSPOOL & SPA
MOTORSRESIDENTIAL
WATER PUMPELEVATOR AND
GATE & DOOR

690 VAC ±10%, 3-Phase Input and Output, 50/60 Hz Input

Normal Duty			Heavy Duty			Catalog Number	List	Discount Symbol	Drive Frame
Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)	Typical Output (kW)	Motor Power (HP)	Max Continuous Current (A)				
18.5	25	22	15	20	19	VFK4601	\$6,827	DS-5EV	4
22	30	27	18.5	25	22	VFK4602	\$7,032	DS-5EV	4
30	40	36	22	30	27	VFK4603	\$7,114	DS-5EV	4
37	50	43	30	40	36	VFK4604	\$8,075	DS-5EV	4
45	60	52	37	50	43	VFK4605	\$9,368	DS-5EV	4
55	75	62	45	60	52	VFK4606	\$10,763	DS-5EV	4
75	100	84	55	75	63	VFK5601	\$13,409	DS-5EV	5
90	125	99	75	100	85	VFK5602	\$15,243	DS-5EV	5
110	150	125	90	125	100	VFK6601	\$16,297	DS-5EV	6*
132	175	144	110	150	125	VFK6602	\$18,043	DS-5EV	6*

Drive Frame	Dimensions (H x W x D) Inches
A	6 x 3 x 5.7
B	8 x 3.4 x 6.2
C	10.2 x 4 x 6.8
D	13.2 x 4.5 x 7.8
2	15.3 x 6.1 x 8.62
3	15.3 x 9.9 x 10.3
4	21.6 x 12.2 x 11.8
5	33.8 x 12.2 x 11.8
6	46 x 12.2 x 11.8

HP/kW Are Indicative Only; Use Motor FLA for Drive Sizing.

*Frame 6 Units require external 24V DC, 4.5A power supply for VFD cooling fan; power supply to be procured by customer separately