



Automation and Control

KB's Variable-Speed AC Motor Drives range in horsepower from sub-fractional through 5 HP. They offer unique features not found in other Drives. The chassis/IP-20 models include motor filters to eliminate winding and bearing failures. Suffix "F" models contain a built-in CE approved RFI/EMI filter. A wide selection of factory installed options add to their versatility.

All KB Drives are available factory programmed and customized for out-of-the-box installation.

Inverter Selection Guide



KBDA

The KBDA Series of Digital VFDs consist of 5 inverter models ranging from 1/8 through 5.0 horsepower housed in heavy duty, NEMA-4X / IP-65 die cast aluminum washdown/watertight enclosures for indoor or outdoor use. Digitally programmable, all similar functions are presented in common groups making these Adjustable Frequency Drives easy to install and operate. A large 4-digit display provides easy-to-read operating parameters and programming functions.



KBAC

The KBAC Series of VFDs consist of 5 inverter models ranging from 1/8 through 5.0 horsepower housed in heavy duty, NEMA-4X / IP-65 die cast aluminum washdown/watertight enclosures for indoor or outdoor use. These analog style AC Drives do not require programming. Jumper selectable functions and simple trimpot adjustments make the KBAC Series quick and easy to use. For OEM applications, these Drives can be factory programmed for many demanding requirements.



KBMK

The KBMK Series of Digital VFDs consist of 2 inverter models rated from 1/8 through 1 horsepower housed in a NEMA-1 / 1P-40 aluminum enclosure. The KBMK-24DF contains a built-in AC line Class A RFI/EMI filter. Digitally programmable, all similar functions are presented in common groups making these Drives easy to install and operate. A large 4-digit display provides easy-to-read operating parameters.



KBMA

The KBMA Series of VFDs consist of 2 inverter models rated from 1/8 through 1.0 horsepower housed in a NEMA-1 / IP-40 aluminum enclosure. The KBMA-24DF contains a built-in AC line Class A RFI/EMI filter. Jumper selectable functions and simple trimpot adjustments make the KBMA Series quick and easy to use. For OEMs these Drives can be customized for many demanding applications.



KBVF

The KBVF Series of Adjustable Frequency Drives consist of 13 models ranging from 1/10 thru 5.0 horsepower. These chassis / IP-20 style Drives are ideal for OEM applications where digital programming and displays are not required. Simple trimpots and jumpers allow for quick and easy tuning for each application. All Drives can be factory customized to your unique application due to their broad programming capabilities, including PLC functions.





Automation and Control

Inverter Selection Guide

ELECTRICAL RATINGS

	Model No.	Part No.		AC Line Input Voltage (50/60 Hz)	Input Phase (φ)	Maximum Input Current (Amps AC)	Output Voltage Range (Volts AC)	Maximum Continuous Output Load Current (RMS Amps/Phase)	Maximum Horsepower		Dim. Ref. Code
									HP	(kW)	
KBDA Series (NEMA-4X)	KBDA-24D	Gray Case 9536	White Case ¹ 9537	115	1	16	0 - 230	3.6	1	0.75	A
				208/230	1	10					
	KBDA-27D	9543	9544	115	1	22	0 - 230	5.5	1½	1.13	B
				208/230	1	15	0 - 230	6.7	2	1.5	
	KBDA-29	9545	9546	208/230	1	15	0 - 230	6.7	2	1.5	B
	KBDA-45	9659	9660	400/460	3	5.3	0 - 400/460	4.6	3	2.25	B
KBDA-48	9661	9662	400/460	3	9.6	0 - 400/460	8.3	5	3.75	B	
KBAC Series (NEMA-4X)	KBAC-24D	Gray Case 9987	White Case ¹ 9988	115	1	16	0 - 230	3.6	1	0.75	A
				208/230	1	10					
	KBAC-27D	9520	9521	115	1	22	0 - 230	5.5	1½	1.13	B
				208/230	1	15	0 - 230	6.7	2	1.5	
	KBAC-29	9528	9529	208/230	1	15	0 - 230	6.7	2	1.5	B
	KBAC-45	9530	9531	400/460	3	5.3	0 - 400/460	4.6	3	2.25	B
KBAC-48	9540	9541	400/460	3	9.6	0 - 400/460	8.3	5	3.75	B	
KBMK Series (NEMA-1)	KBMK-24D	9680		115	1	16	0 - 230	3.6	1	0.75	C
				208/230	1	10					
	KBMK-24DF ²	9681		115	1	16	0 - 230	3.6	1	0.75	C
KBMA Series (NEMA-1)	KBMA-24D	9533		115	1	16	0 - 230	3.6	1	0.75	C
				208/230	1	10					
	KBMA-24DF ²	9534		115	1	16	0 - 230	3.6	1	0.75	C
KBVF Series (IP-20)	KBVF-21D ^{3,4}	9581		115	1	4.0	0 - 230	1.0	1/10	0.07	D
				208/230	1	2.5					
	KBVF-22D ^{3,4}	9572	9572	115	1	6.0	0 - 230	1.5	1/4	0.18	E
				208/230	1	3.8					
	KBVF-23D ^{3,4}	9959	9959	115	1	11.0	0 - 230	2.4	1/2	0.37	E
				208/230	1	7.0					
	KBVF-24D ^{3,4}	9979	9979	115	1	16.0	0 - 230	4.0	1	0.75	F
				208/230	1	10.0					
	KBVF-26D ^{3,4}	9496	9496	115	1	22.0	0 - 230	5.5	1½	1.13	G
				208/230	1	14.0					
	KBVF-27	9591	9591	208/230	1,3	15.0	0 - 230	6.7	2	1.5	H
	KBVF-29	9593	9593	208/230	3	10.8	0 - 230	9.0	3	2.25	H
KBVF-45	9590	9590	400/460	3	5.3	0 - 400/460	4.6	3	2.25	I	
KBVF-48	9592	9592	400/460	3	9.6	0 - 400/460	8.3	5	3.75	I	

Notes: 1. White FDA approved finish. 2. Models KBMA-24DF and KBMK-24DF contain a built-in Class A RFI (EMI) filter, which meets the CE Council Directive 89/336/EEC Industrial Standard. 3. Models KBVF-21D, 22D, 23D, 24D, 26D contain a built-in motor filter. 4. Available in single voltage AC line input (115 or 208/230 VAC).

DIMENSIONS (W X H X D)

Ref. Code	Inches	mm
A	5.51 X 9.53 X 5.86	140 X 242 X 149
B	7.55 X 9.00 X 7.25	192 X 249 X 184
C	4.95 X 7.00 X 4.15	126 X 178 X 105

Ref. Code	Inches	mm
D	4.30 X 3.90 X 2.30	109 X 99 X 59
E	4.30 X 3.90 X 2.75	109 X 99 X 70
F	4.70 X 4.45 X 5.00	119 X 113 X 127

Ref. Code	Inches	mm
G	4.70 X 4.45 X 4.60	119 X 113 X 117
H	4.70 X 7.50 X 4.45	119 X 191 X 113
I	4.70 X 8.55 X 4.35	119 X 217 X 110



KB Electronics, Inc.

A42146 – Rev. B – 01/09



Sold by AA Electric 1-800-237-8274 • Lakeland, FL • Lawrenceville, GA • East Rutherford, NJ
Web : www.A-Aelectric.com Email: njsales@a-aelectric.com