



Automation and Control

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

KB's Variable-Speed AC Motor Drives range from sub-fractional thru 5 horsepower. They offer unique features not found in other drives. The chassis / IP-20 models include motor filters to eliminate winding and bearing failures. A wide selection of factory installed options add to their versatility.

# Inverter Selection Guide



## KBDA

The KBDA Series of Digital Adjustable Frequency Drives consist of 7 inverter models ranging from 1/8 thru 5 horsepower. These drives are 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 drives easy to install and operate. A large 4-digit display provides easy-to-read operating parameters and programming functions. Optional accessories include On/Off AC Line Switch, AC Line Class A Industrial Standard RFI (EMI) Filter, Input/Output Multi-Function Board with PLC Functions, Programming Kit, Modbus Communication Module, and Liquidtight Fittings.



## KBAC

The KBAC Series of Adjustable Frequency Drives consist of 5 inverter models ranging from 1/8 thru 5 horsepower. These drives are 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 these drives quick and easy to use. For OEM applications, these drives can be factory programmed for many demanding requirements. Optional accessories include Forward-Stop-Reverse Switch, On/Off AC Line Switch, Run-Stop-Jog Switch, Signal Isolator, Auto/Manual Switch, AC Line Class A Industrial Standard RFI (EMI) Filter, Multi-Speed Board, Programming Kit, Modbus Communication Module, and Liquidtight Fittings.



## KBMK

The KBMK Series of Digital Adjustable Frequency Drives consist of 2 inverter models ranging from 1/8 thru 1 horsepower housed in NEMA-1 / IP-40 aluminum enclosures. The KBMK-24DF contains a built-in CE approved AC Line Class A Industrial Standard 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 and programming functions. Optional accessories include On/Off AC Line Switch and Input/Output Multi-Function Board with PLC Functions.

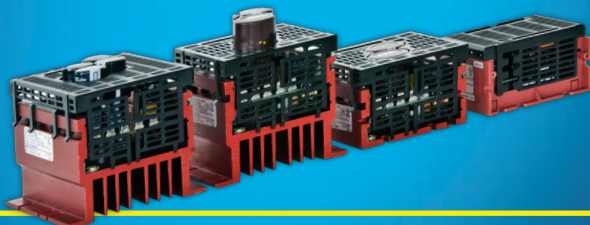


## KBMA

The KBMA Series of Adjustable Frequency Drives consist of 2 inverter models ranging from 1/8 thru 1 horsepower housed in NEMA-1 / IP-40 aluminum enclosures. Both models contain an On/Off AC Line Switch, a Pilot Light, and a Main Speed Potentiometer. The KBMA-24DF contains a built-in CE approved AC Line Class A Industrial Standard RFI (EMI) Filter. Jumper selectable functions and simple trimpot adjustments make these drives quick and easy to use. For OEMs, these drives can be customized for many demanding applications. Optional accessories include Forward-Stop-Reverse Switch, AC Line Class B Residential Standard RFI (EMI) Filter, and Programming Kit.

## KBVF

The KBVF Series of Adjustable Frequency Drives consist of 15 inverter models ranging from 1/10 thru 5 horsepower. These chassis / IP-20 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. These drives can be factory customized to your unique application due to their broad programming capabilities, including PLC functions. Optional accessories include Signal Isolator with PLC Functions, Dynamic Brake Module, Multi-Speed Board, Programming Kit, Modbus Communication Module, AC Line Class A Industrial and Class B Residential RFI (EMI) Filter, and custom software.





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## 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 <sup>1</sup> (RMS Amps/Phase)	Maximum Horsepower		Dim. Ref. Code
									HP	kW	
KBDA Series (NEMA-4X)	KBDA-24D	Gray Case 9536	White Case <sup>4</sup> 9537	115	1	16	0-230	3.6	1	0.75	A
				208/230	1	10					
	KBDA-24P	9766	9767	208/230	3	4.7	0-230	3.6	1	0.75	A
	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 (1P)	10003	10004	208/230	1	20.5	0-230	9.0	3	2.25	B
	KBDA-29	9545	9546	208/230	1	15	0-230	6.7	2	1.5	B
					3	10.8	0-230	9.0	3	2.25	
KBDA-42	9763	9764	400/460	3	2.6	0-400/460	2.0	1	0.75	A	
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 <sup>4</sup> 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 (1P)	10001	10002	208/230	1	20.5	0-230	9.0	3	2.25	B
	KBAC-29	9528	9529	208/230	1	15	0-230	6.7	2	1.5	B
					3	10.8	0-230	9.0	3	2.25	
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 <sup>2</sup>	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 <sup>2</sup>	9534	115	1	16	0-230	3.6	1	0.75	C	
KBVF Series (IP-20)	KBVF-21D <sup>3</sup>	9581	115	1	4.0	0-230	1.0	1/10	0.07	D	
			208/230	1	2.5						
	KBVF-22D <sup>3</sup>	9572	115	1	6.0	0-230	1.5	1/4	0.18	E	
			208/230	1	3.8						
	KBVF-23D <sup>3</sup>	9959	115	1	11.0	0-230	2.4	1/2	0.37	E	
			208/230	1	7.0						
	KBVF-23P	9676	208/230	3	3.2	0-230	2.4	1/2	0.37	E	
	KBVF-24D <sup>3</sup>	9979	115	1	16.0	0-230	4.0	1	0.75	F	
			208/230	1	10.0						
	KBVF-24P	9677	208/230	3	5.2	0-230	4.0	1	0.75	F	
	KBVF-26D <sup>3</sup>	9496	115	1	22.0	0-230	5.5	1½	1.13	G	
			208/230	1	14.0						
	KBVF-27	9591	208/230	1,3	15.0	0-230	6.7	2	1.5	H	
	KBVF-29	9593	208/230	3	10.8	0-230	9.0	3	2.25	H	
KBVF-42	9645	400/460	3	2.3	0-400/460	2.0	1	0.75	I		
KBVF-45	9590	400/460	3	5.3	0-400/460	4.6	3	2.25	J		
KBVF-48	9592	400/460	3	9.6	0-400/460	8.3	5	3.75	J		

Notes: 1. All models [except Models KBDA-29 (1P) and KBAC-29 (1P)] are rated 40 °C, maximum ambient temperature, at the Rated Load Current. Models KBDA-29 (1P) and KBAC-29 (1P) are rated 9.0 Amps at 35 °C and derated to 8.3 Amps at 40 °C. For ambient temperatures above 40 °C, all drives are derated 2.5% per °C. 2. Models KBMK-24DF and KBMA-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 and are available in single voltage AC line input (115 or 208/230 Volts AC). 4. White FDA approved finish.

## 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
D	4.30 X 3.90 X 2.30	109 X 99 X 59

Ref. Code	Inches	mm
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
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

Ref. Code	Inches	mm
I	4.05 X 9.31 X 2.75	103 X 236 X 70
J	4.70 X 8.55 X 4.35	119 X 217 X 110



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A42146 – Rev. D – 4/2010

Print Code