

Hybrid Drives

Digital AC Drives with Analog Interface

Enclosure types: Chassis / IP20, NEMA 1 / IP20 & 50 and NEMA 4X / IP65

The NEMA 4X / IP65 drives are housed in a rugged die-cast aluminum enclosure with a hinged cover.

Primary Features

Horsepower 1/8 to 10 HP
115/230/460 VAC - 1ph & 3ph Input
Output 230/460 VAC - 3ph
Starting Torque 200%
FDA Approved Finish*

GFCI Compatible

Allows equipment to operate with Ground Fault Circuit Interruption circuit breakers or outlets.
(Factory programming required.)

Benefits

Saves Time

Easy to Install and Simple to Operate. Does not require commissioning.

Up and running in less than 10 minutes.

Motors Last Longer

Proprietary CL Software

Provides overload protection, prevents motor burnout and eliminates nuisance tripping. UL approved as electronic overload protector for motors.

Energy Saving

Uses only the power the application requires. Replacing constant speed with variable speed will significantly reduce energy costs.

Customization for OEM's

When an off the shelf drive does not meet your needs,

KB will work with you to provide a custom drive solution, Ready to Use, "Out-of-the-Box."

Customization includes: Pre-calibrating or programming of a stock control, adding a custom label or branding, custom software, PLC functions or designing a new control.

*White cases only.



Automation and Control

KB Electronics, Inc.
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Designed and
Assembled in USA



Electrical Ratings

	Maximum HP		AC Line Voltage (50/60 Hz)	Phase	Model Number	Part No.	Max. AC Line Current (Amps AC)	Voltage Range (Volts AC)	Max. Load Current (Amps/Phase)	Net Weight		Dim. Ref. Code
	HP	KW								Lbs.	kg	
Chassis, IP20	1/2	0.37	115	1	KBVF-13	9957	9.6	0 - 208/230	2.4	1.3	0.6	A
	1	0.75	115	1	KBVF-14	9977	14	0 - 208/230	4	2.2	1.0	B
	1/2	0.37	208/230	1	KBVF-23	9958	6	0 - 208/230	2.4	1.3	0.6	A
	1	0.75	208/230	1	KBVF-24	9978	10	0 - 208/230	4	2.2	1	B
	1/10	0.07	115	1	KBVF-21D*	9581	4	0 - 208/230	1	0.7	0.3	C
			208/230				2.5					
	1/4	0.18	115	1	KBVF-22D*	9572	6	0 - 208/230	1.5	1.3	0.6	A
			208/230				3.8					
	1/2	0.37	115	1	KBVF-23D*	9959	9.7	0 - 208/230	2.4	1.3	0.6	A
			208/230				6					
	1	0.75	115	1	KBVF-24D*	9979	14	0 - 208/230	4	2.2	1	B
			208/230				10					
	1½	1.13	115	1	KBVF-26D*	9496	22	0 - 208/230	5.5	2.9	1.3	D
			208/230				14					
	1/2	0.37	208/230	3	KBVF-23P	9676	3.1	0 - 208/230	2.4	1.1	0.5	A
	1	0.75	208/230	3	KBVF-24P	9677	5.2	0 - 208/230	4	2.2	1	B
	2	1.5	208/230	1	KBVF-27	9591	17	0 - 208/230	6.7	4.1	1.9	E
				3			8.7					
	2	1.5	208/230	1	KBVF-29	9593	22.5	0 - 208/230	9	4.6	2.1	E
				3			11.7					
1	0.75	400/460	3	KBVF-42**	9645	2.6	0 - 400/460	2	2.8	1.3	F	
3	2.25	400/460	3	KBVF-45**	9590	5.3	0 - 400/460	4.6	4.1	1.9	G	
5	3.75	400/460	3	KBVF-48**	9592	11	0 - 400/460	8.3	4.6	2.1	G	

*Models KBVF-21D, 22D, 23D, 24D and 26D are available in single voltage AC line input (115 or 208/230 VAC) and also contain a built-in Motor Filter to eliminate winding and bearing failures.

**Contains SIVFR signal input isolation and Run/Fault output relay.

NEMA 1, IP20	1/4	0.19	115	1	KBWA-22D	9926	5.2	0 - 208/230	1.3	1.58	0.72	H
			208/230				3.8		1.5			
	1/2	0.37	115	1	KBWA-23D	9946	8.8	0 - 208/230	2.2	1.58	0.72	H
			208/230				6		2.4			

Model KBWA-22D (IP 50), model KBWA-23D (IP 20). Lower horsepower models available (KBWA-21D, 2P3D, 2P6D).

NEMA 1, IP50	1	0.75	115	1	KBMA-24D	9533	14.4	0 - 208/230	3.6	2.42	1.09	I
			208/230				9.5					
	1	0.75	115	1	KBMA-24DF	9534	9.5	0 - 208/230	3.6	2.48	1.12	I
			208/230									

NEMA 4X, IP65	1	0.75	115	1	KBAC-24D	9987	9988*	14.4	0 - 208/230	3.6	5.9	2.7	J
			208/230					8.1					
	1½	1.13	208/230	1	KBAC-27D	9520	9521*	22	0 - 208/230	5.5	10.3	4.7	K
										16.7			
	3	2.25	208/230	1	KBAC-29 (1P)	10001	10002*	20.5	0 - 208/230	9	10.3	4.7	K
										6.7			
	2	1.5	208/230	1	KBAC-29	9528	9529*	20.5	0 - 208/230	6.7	10.3	4.7	K
										11.7			
	3	2.25	400/460	3	KBAC-45	9530	9531*	7.2	0 - 400/460	5.5	10.3	4.7	K
										9			
	5	3.75	400/460	3	KBAC-48	9540	9541*	11	0 - 400/460	8.3	10.3	4.7	K
										17			
	5	3.75	208/230	3	KBAC-217	8868	8879*	22.1	0 - 208/230	17	22	10	L
										17			
	5	3.75	208/230	3	KBAC-217S	8863	8855*	22.1	0 - 208/230	17	22	10	L
										17			
5	3.75	208/230	3	KBAC-217F	8861	8853*	22.1	0 - 208/230	17	22	10	L	
									17				
5	3.75	208/230	3	KBAC-217SF	8869	8880*	22.1	0 - 208/230	17	22	10	L	
									17				
10	7.5	400/460	3	KBAC-416	8870	8881*	20.8	0 - 400/460	16	22	10	L	
									16				
10	7.5	400/460	3	KBAC-416S	8864	8856*	20.8	0 - 400/460	16	22	10	L	
									16				
10	7.5	400/460	3	KBAC-416F	8874	8883*	20.8	0 - 400/460	16	22	10	L	
									16				
10	7.5	400/460	3	KBAC-416SF	8871	8882*	20.8	0 - 400/460	16	22	10	L	
									16				

*FDA approved (white cases only).

Dimensions (W x L x D)

Ref. Code	Inches	Millimeters
A	3.9 x 4.3 x 2.75	99 x 109 x 70
B	4.7 x 4.3 x 5	119 x 109 x 127
C	3.9 x 4.3 x 2	99 x 109 x 51
D	4.7 x 5.7 x 4.5	119 x 145 x 114

Ref. Code	Inches	Millimeters
E	4.7 x 7.5 x 4.45	119 x 191 x 113
F	4.1 x 9.31 x 2.75	103 x 236 x 70
G	4.7 x 8.75 x 4.45	119 x 222 x 113
H	3.92 x 6.06 x 3.65	102 x 154 x 92.7

Ref. Code	Inches	Millimeters
I	4.95 x 7 x 4.15	126 x 178 x 105
J	5.51 x 9.53 x 5.86	140 x 242 x 149
K	7.69 x 9.82 x 7.36	195 x 249 x 187
L	10.3 x 13.83 x 9	262 x 351 x 227

Represented by:



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