

# KBVF

## Analog AC Drive

- Finger-Safe Cover Meets IP-20 Standard
- Flux Vector Compensation with Static Auto-Tune and Boost
- Easy to Operate, Out of the Box
- Output Frequency Doubling
- Input 115/230/460V
- 200% Starting Torque
- Horsepower Range  
1/10 HP – 5 HP
- GFCI Compatible  
w/Factory Programming
- UL, cUL and CE Approved
- **Drive Options:**
  - Signal Isolator and Run/Fault Relay
  - Dynamic Brake Module
  - Multi-Speed Board
  - DIVF Modbus Communication Module
  - Class "A" (CE) RFI Filter
  - Input/Output Multi-Function Module
  - Remote Keypad/Display



Automation and Control

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## Ratings, Dimensions and Weights

### 115 VAC 1-Phase Input • 230 VAC 3-Phase Output

Model No.	Ratings		Dimensions – Inches, (mm)			Net Weight	
	HP, (kW)	Amps	Width	Length	Height	Lbs.	kg
KBVF-13	1/2, (0.37)	2.4	3.9, (99)	4.3, (109)	2.75, (70)	1.3	0.6
KBVF-14	1, (0.75)	4.0	4.7, (119)	4.3, (109)	5, (127)	2.2	1.0

### 230 VAC 1-Phase Input • 230 VAC 3-Phase Output

Model No.	Ratings		Dimensions – Inches (mm)			Net Weight	
	HP, (kW)	Amps	Width	Length	Height	Lbs.	kg
KBVF-23	1/2, (0.37)	2.4	3.9, (99)	4.3, (109)	2.75, (70)	1.3	0.6
KBVF-24	1, (0.75)	4.0	4.7, (119)	4.3, (109)	5, (127)	2.2	1.0

### 115/230 VAC 1-Phase Input • 230 VAC 3-Phase Output

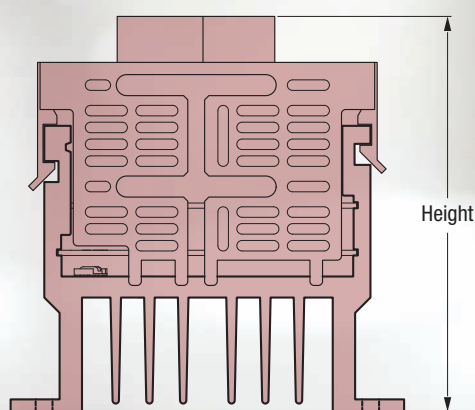
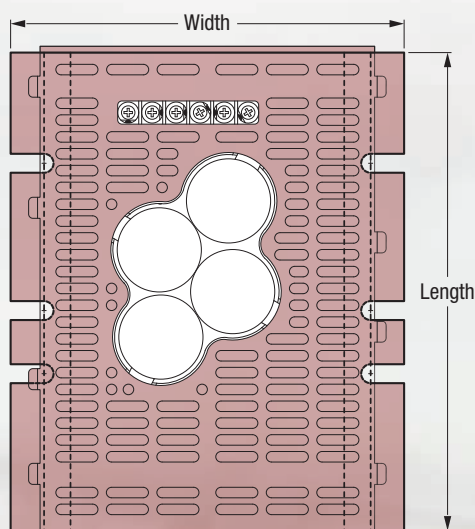
Model No.	Ratings		Dimensions – Inches, (mm)			Net Weight	
	HP, (kW)	Amps	Width	Length	Height	Lbs.	kg
KBVF-21D	1/10, (0.07)	1.0	3.9, (99)	4.3, (109)	2, (51)	0.7	0.3
KBVF-22D	1/4, (0.18)	1.5	3.9, (99)	4.3, (109)	2.75, (70)	1.3	0.6
KBVF-23D	1/2, (0.37)	2.4	3.9, (99)	4.3, (109)	2.75, (70)	1.3	0.6
KBVF-24D	1, (0.75)	4.0	4.7, (119)	4.3, (109)	5, (127)	2.2	1.0
KBVF-26D	1½, (1.13)	5.5	4.7, (119)	5.7, (145)	4.5, (114)	2.9	1.3

### 230 VAC 3-Phase Input • 230 VAC 3-Phase Output

Model No.	Ratings		Dimensions – Inches, (mm)			Net Weight	
	HP, (kW)	Amps	Width	Length	Height	Lbs.	kg
KBVF-23P	1/2, (0.37)	2.4	3.9, (99)	4.3, (109)	2.75, (70)	1.1	0.5
KBVF-24P	1, (0.75)	4.0	4.7, (119)	4.3, (109)	5, (127)	2.0	0.9
KBVF-27	2, (1.5)	6.7	4.7, (119)	7.5, (191)	4.45, (113)	4.1	1.9
KBVF-29	3, (2.25)	9.0	4.7, (119)	7.5, (191)	4.45, (113)	4.6	2.1

### 460 VAC 3-Phase Input • 460 VAC 3-Phase Output

Model No.	Ratings		Dimensions – Inches (mm)			Net Weight	
	HP, (kW)	Amps	Width	Length	Height	Lbs.	kg
KBVF-42	1, (0.75)	2.0	4.1, (103)	9.31, (236)	2.75, (70)	2.8	1.3
KBVF-45	3, (2.25)	4.6	4.7, (119)	8.75, (222)	4.45, (113)	4.1	1.9
KBVF-48	5, (3.75)	8.3	4.7, (119)	8.75, (222)	4.45, (113)	4.6	2.1



## Specifications

Maximum Load (% of Current Overload for 2 Minutes)	150
Carrier, Switching Frequency (kHz)	16, 8
Output Frequency Resolution (Bits, Hz)	10, 0.06
Minimum Output Frequency to Motor (Hz)	0.3
Acceleration Time (Seconds)	0.3 – 20
Deceleration Time (Seconds)	0.3 – 20
Speed Range (Ratio)	60:1
Speed Regulation (30:1 Speed Range, 0 – Full Load) (% Base Speed)	2.5
Stalled Motor Trip Time (Seconds)	6
Braking Standard	DC Injection
Operating Temperature Range (°C / °F)	0 – 40 / 32 – 104
Storage Temperature (°C / °F)	-25 – +85 / -13 – +185

Represented by:



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