

KBVF

Analog AC Drive

A Basic Shaft Turner

IP-20 Drive with Finger-Safe Cover

- Easiest Drive to Use, Right Out of the Box
 - No Programming Required
- Average setup time: less than 10 minutes*

- No Complicated Terms to Understand
- Power On Indicator
- Voltage Input
115/230/460 VAC
1 & 3-Phase 50/60 Hz
- Output 230/460 VAC 3-Phase
- Motors 1/10 – 5HP
- Powerful 200% Starting Torque
- GFCI Compatible*

Drive Options

- Signal Isolator and Run Relay
- Dynamic Brake Module
- Multi-Speed Board • Class "A" (CE) RFI Filter
- Input/Output Multi-Function Module

*w/Factory Programming



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Automation and Control

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

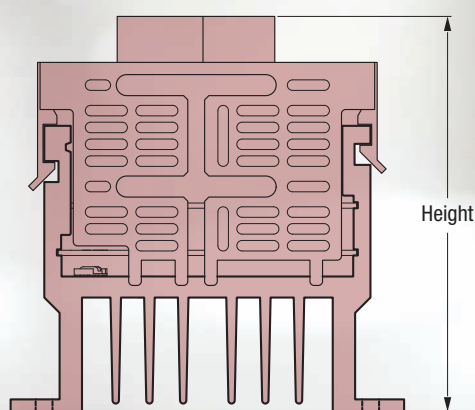
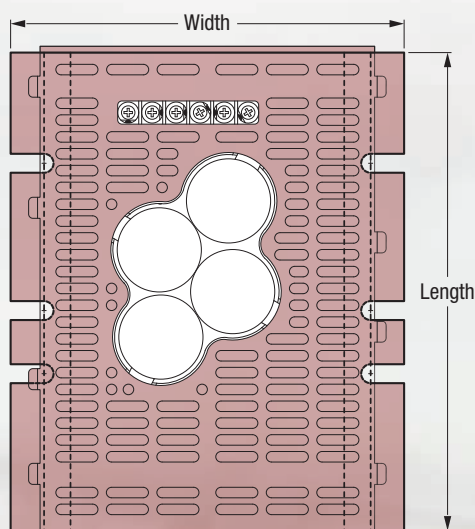
| Model No. | Ratings | | Dimensions – Inches, (mm) | | | Net Weight | |
|-----------|--------------|------|---------------------------|------------|------------|------------|-----|
| | HP, (kW) | Amps | Width | Length | Height | Lbs. | kg |
| KBVF-21D | 1/10, (0.07) | 1.0 | 3.9, (99) | 4.3, (109) | 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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