

# KBG2 Series

## Flexible Connectivity



## Integration Through Flexible Communications

0.33 HP – 30 HP (0.25 kW – 22 kW)  
115 V | 230 V | 460 V | 575 V

Being tied into one system can be restrictive. It can leave you trapped with one supplier even when there is a better option available on the market.

We provide a viable alternative.

The KBG2 gives you freedom to connect with many of the common fieldbuses using the modular 'SI' interface port. It can communicate with Modbus TCP/IP, EtherNet/IP, EtherCat, PROFINET-RT, PROFIBUS-DP, CANopen and DeviceNet. The AI-485 Adaptor option can also connect to RS485 networks using Modbus RTU.



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### Increase Your Productivity

To get the most out of your drives, we have developed the KBConnect PC tool. It is designed to aid productivity when commissioning, optimizing, and monitoring drive/system performance. [www.kbelectronics.com/KBG-Drive-Setup.html](http://www.kbelectronics.com/KBG-Drive-Setup.html)

### More Control. No Extra Cost

If you are using an external PLC in your machinery, you will know that extra functionality comes at a price. Our integrated PLC is included at no extra cost.

### Easy to Setup

Our most user-friendly drive yet. Designed to make installation simple and quick. All the parameters you need to get started are on the front of the drive. For everything else, there is the step-by-step guide that comes in the box.

If you prefer, you'll find online support at our companion site: [www.kbelectronics.com/KBG-Drive-Setup.html](http://www.kbelectronics.com/KBG-Drive-Setup.html)

Save even more time by transferring settings before you install the drive. All you need is our AI-Backup module or AI-Smart Adaptor, and a 24V power supply.

### Reliable Workhorse

Our drives keep your machines running, even in the toughest environments. That means working to international standards IEC60068-2-60 to levels defined by IEC721-3-3 2C3.

### Technology You Can Trust

Each of our controls go through rigorous testing before they leave the factory. This ensures reliability and provides confidence that your KBG2 series drive performs properly in your application.

### Drive Specifications

Onboard Potentiometer	✓
Open Loop Vector or V/Hz	✓
Open Loop Rotor Flux Control (RFC-A)	✓
Analog Inputs / Outputs	2/1
Digital Inputs / Outputs / Bidirectional I/O	4/0/1
Relay Output <sup>1</sup>	1
Onboard PLC	✓
RS485 Communications Modbus RTU <sup>2</sup>	✓
Cloning via SD Card <sup>3</sup>	✓

1. Configurable. 2. Requires AI-485 Adapter. 3. Requires AI-Backup Adapter.



### Simple to Use

Up and Running in  
4 Easy Steps

### Robust

180% (30s) / 150% (60s)  
Overload

### Flexible

Connects to Over  
7 Common Protocols

### Made to Last

2 Years Warranty

### Customer Focused

50 Years  
of Experience

### 1-Click Online Support

[kbelectronics.com/  
KBG-Drive-Setup.html](http://kbelectronics.com/KBG-Drive-Setup.html)



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Automation and Control

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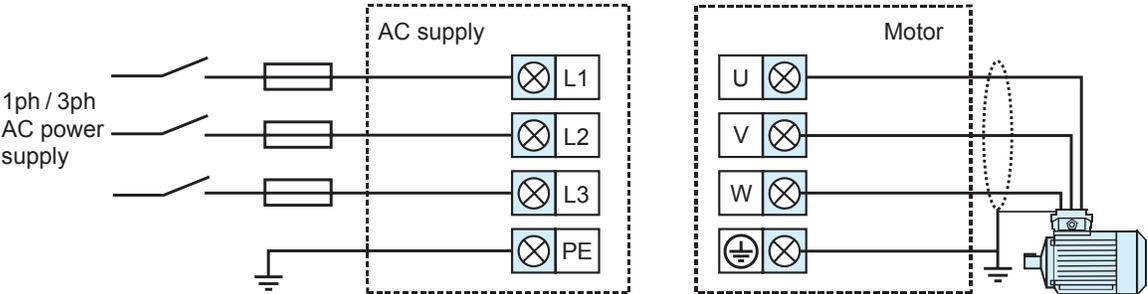
### Enhance up-time and system flexibility

- Flexible system integration and remote diagnostics through optional industrial Ethernet and fieldbus communication
- Flexible I/O that is expandable with SI-I/O option module
- Top ten level 1 parameters listed on the drive's front cover allows for easy on-the-spot reference for drive setup and maintenance

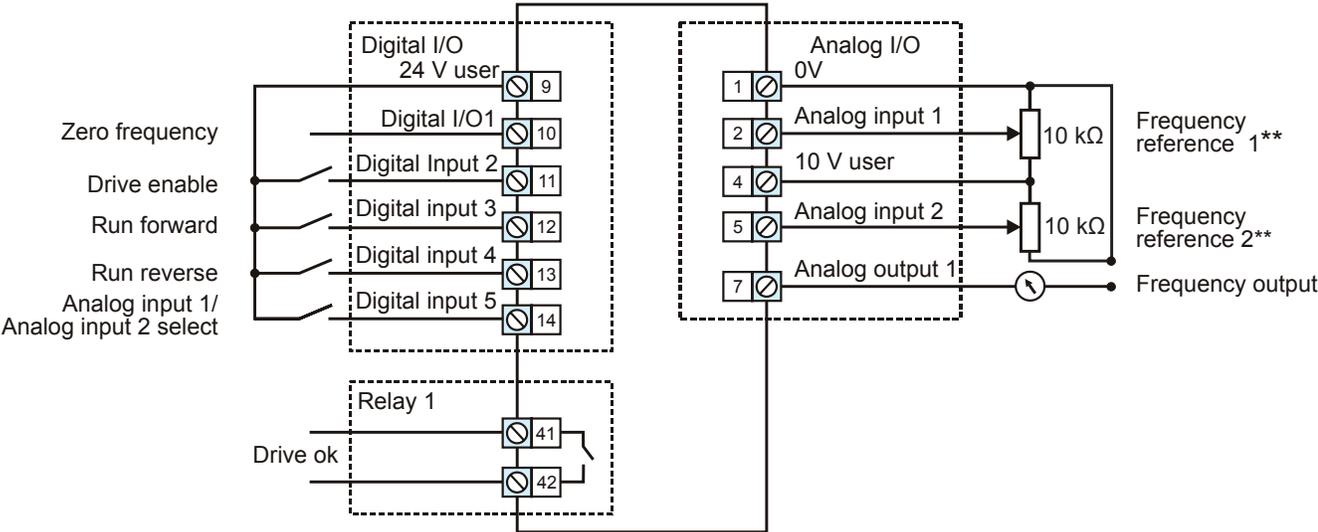
### High performance open loop motor control

- RFC-A (Rotor Flux Control) algorithm for exceptional induction motor control of demanding applications
- Closed loop current control without a position feedback device
- Dynamic motor V/Hz control optimizes energy savings
- Speed control for conveyors, fans, pumps, and mixers, where their function are controlled remotely with fieldbus or Ethernet communications

### Wire the Drive



### Control Terminal Connections



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### KBG2 Order Information and Ratings

#### 115 VAC, 1-Phase 50/60 Hz Input, 230 VAC 3-Phase Output

Order Code		Variable / Constant Torque	
Part No.	Model No.	HP	Amps
N2101	KBG2-11017-1	0.33	1.7
N2102	KBG2-11024-1	0.5	2.4
N2103	KBG2-11042-2	1	4.2
N2104	KBG2-11056-2	1.5	5.6

#### 230 VAC, 1-Phase Input, 3-Phase Output, 50/60 Hz Input

Order Code		Variable / Constant Torque	
Part No.	Model No.	HP	Amps
N2105	KBG2-21017-1	0.33	1.7
N2106	KBG2-21024-1	0.5	2.4
N2107	KBG2-21033-1	0.75	3.3
N2108	KBG2-21042-1	1	4.2

#### 230 VAC, 1 or 3-Phase Input, 3-Phase Output, 50/60 Hz Input

Order Code		Variable / Constant Torque	
Part No.	Model No.	HP	Amps
N2109	KBG2-22024-2	0.5	2.4
N2110	KBG2-22033-2	0.75	3.3
N2111	KBG2-22042-2	1	4.2
N2112	KBG2-22056-2	1.5	5.6
N2113	KBG2-22075-2	2	7.5
N2114	KBG2-22100-3	3	10
N2115	KBG2-22133-4	3	13.3

#### 230 VAC, 3-Phase Input, 3-Phase Output, 50/60 Hz Input

Order Code		Variable Torque		Constant Torque	
Part No.	Model No.	HP	Amps	HP	Amps
N2116	KBG2-23176-4	5	17.6	5	17.6
N2117	KBG2-23250-5	10	30	7.5	25
N2118	KBG2-23330-6	15	50	10	33
N2119	KBG2-23440-6	20	58	15	44

### Dimensions (H x W x D) & Weights

Frame Size	Inches	Millimeters	Lbs	kg
01	6.3 x 3.0 x 5.6	160 x 76.2 x 142	1.7	0.77
02	8.1 x 3.1 x 6.3	206 x 78.7 x 160	2.2	1.00
03	8.9 x 3.5 x 6.7	226 x 88.9 x 170	3.3	1.50
04	10.9 x 4.5 x 7.3	277 x 114 x 185	6.9	3.13
05	15.4 x 5.6 x 7.9	391 x 142 x 201	16.3	7.39
06	15.4 x 8.3 x 9.0	391 x 211 x 229	30.9	14.02

#### 460 VAC, 3-Phase Input, 3-Phase Output, 50/60 Hz Input

Order Code		Variable Torque		Constant Torque	
Part No.	Model No.	HP	Amps	HP	Amps
N2120	KBG2-43013-2	0.5	1.3	0.5	1.3
N2121	KBG2-43018-2	0.75	1.8	0.75	1.8
N2122	KBG2-43023-2	1	2.3	1	2.3
N2123	KBG2-43032-2	1.5	3.2	1.5	3.2
N2124	KBG2-43041-2	2	4.1	2	4.1
N2125	KBG2-43056-3	3	5.6	3	5.6
N2126	KBG2-43073-3	3	7.3	3	7.3
N2127	KBG2-43094-3	5	9.4	5	9.4
N2128	KBG2-43135-4	7.5	13.5	7.5	13.5
N2129	KBG2-43170-4	10	17	10	17
N2130	KBG2-43270-5	20	30	20	27
N2131	KBG2-43300-5	20	31	20	30
N2132	KBG2-43350-6	25	38	25	35
N2133	KBG2-43420-6	30	48	30	42
N2134	KBG2-43470-6	50	63	30	47

#### 575 VAC, 3-Phase Input, 3-Phase Output, 50/60 Hz Input

Order Code		Variable Torque		Constant Torque	
Part No.	Model No.	HP	Amps	HP	Amps
N2135	KBG2-53030-5	3	3.9	2	3
N2136	KBG2-53040-5	5	6.1	3	4
N2137	KBG2-53069-5	7.5	10	5	6.9
N2138	KBG2-53100-6	10	12	7.5	10
N2139	KBG2-53150-6	15	17	10	15
N2140	KBG2-53190-6	20	22	15	19
N2141	KBG2-53230-6	25	27	20	23
N2142	KBG2-53290-6	30	34	25	29
N2143	KBG2-53350-6	40	43	30	35



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