Multi-Drive™ represents the latest in state-of-the-art design for variable speed DC motor controls. It is rugged and compact in size and is able to handle both 115 and 230V AC line inputs by setting the built-in Dual Voltage Switch. In addition, the single model can be used on a wide range of motors by selecting and inserting the appropriate Plug-in Horsepower Resistor®.

The standard model, KBMD-240D, controls all motors through 3/4 Hp at 115V and 1 1/2 Hp at 230V. By installing the KB Auxiliary Heatsink, the horsepower range is increased to 1 Hp at 115V and 2 Hp at 230V. The versatility of the control is enhanced with the optional Forward-Brake-Reverse Switch Kit.

The electronics for the Multi-Drive™ consists of KB's patented KBMM™ speed control module. Its field-proven reliability is confirmed by over 100,000 controls presently in operation. The KBMM™ module is housed in a rugged metal (not plastic, like other inexpensive drives) enclosure. Keyhole slots facilitate mounting while a readily accessible terminal block simplifies wiring. Included with each control is a detailed instruction and user manual.

WIRING DIAGRAM

*A Use for shunt motors only.

* CE Compliance Requires KBRF-200A RFI Filter
FEATURES & FUNCTIONS
(1) Rugged all aluminum enclosure
(2) Keyhole slots facilitate mounting
(3) AC Power Indicator
(4) ON/OFF Power Switch
(5) Speed Control Knob
(6) Auxiliary Heatsink (optional)
(7) FWD-BRK-REV Switch (optional)
(8) Dual Voltage Switch ("115" or "230")
(9) AC Line Fuse Included
(10) Plug-in Horsepower Resistor®
(11) Barrier Terminal Block
(12) Internal adjustments for MAX, MIN, IR, CL, ACCEL and DECEL (not shown)
(13) CL LED Indicator
(14) Armature Fuse (customer supplied)

ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>KB Part Number</th>
<th>AC Line Voltage (VAC) ± 15% (50/60 Hz)</th>
<th>Motor Voltage (VDC)</th>
<th>Rating Without Auxiliary Heatsink</th>
<th>Rating With Auxiliary Heatsink</th>
</tr>
</thead>
<tbody>
<tr>
<td>KBMD-240D</td>
<td>9370</td>
<td>115</td>
<td>90 - 130</td>
<td>Max. AC Load Current (RMS Amps) 12.0</td>
<td>Max. AC Load Current (RMS Amps) 16.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>230</td>
<td>180</td>
<td>Max. DC Load Current (Avg. Amps) 8.0</td>
<td>Max. DC Load Current (Avg. Amps) 11.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Maximum Horsepower [Hp, (KW)] 0.75, (0.6)</td>
<td>Maximum Horsepower [Hp, (KW)] 1.5, (1.1)</td>
</tr>
</tbody>
</table>

The Multi-Drive™ can be converted to the higher rating by installing KB's Auxiliary Heatsink.
The Multi-Drive™ must be set for either 115V or 230 VAC line voltage input by setting the Dual Voltage Switch to "115" or "230". When the control is set for "115", use only 90 – 130 VDC rated motors. When the control is set for "230", use 180 VDC rated motors.
Field Voltage is 100 VDC with 115 AC line input, and 200 VDC with 230 AC line input.

MECHANICAL SPECIFICATIONS

PLUG-IN HORSEPOWER RESISTOR® CHART

** Must be used with Auxiliary Heatsink.
** For overlapping motor horsepower range use lower value Plug-in Horsepower Resistor®.

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