

KBWT PWM Drive – Chassis



The KBWT series Pulse-Width Modulated (PWM) DC Drives are rated for 1/100 to 21/5 horsepower motors. This chassis drive series consists of five models that are designed for high current applications. Several models are offered, which provide the user a choice of input voltage and output current. An important feature of these chassis drives is its active bridge circuitry, which limits inrush current during AC line startup and prevents control runaway due to a shorted output transistor. The KBWT also contains Timed Current Limit (TCL) which provides motor burnout protection. The drive also contains a Potentiometer Safety Circuit (PSC), which prevents motor rotation unless the signal input is first set to zero when power is applied. Features include an Armature fuse holder.* This drive also contains Auto Inhibit® which provides a smooth, safe start during rapid switching of the AC line.

*Armature fuse supplied separately. See page 12.

Maximum HP**		AC Line Voltage (50/60 Hz)	Model Number	Part No.	Max. AC Line Current (Amps AC)	Voltage Range (Volts DC)	Max. Load Current (Amps DC)	Net Weight		Dim. Ref. Code ¹
HP	kW							Lbs.	kg	
3/4	0.56	115	KBWT-16	8614	8.5	0 – 130	6	1.57	0.71	R
1½	1.13	208/230	KBWT-26	8615	8.5	0 – 260	6			
1½	0.9	115	KBWT-110	8603	15	0 – 130	8.5	2.9	1.32	S
1½	1.13	115	KBWT-112	8612	18	0 – 130	10.5			
2½	1.7	208/230	KBWT-210	8610	15	0 – 260	8.5	3.12	1.42	

**Horsepower ratings are for PWM rated motors. For SCR rated motors, the maximum horsepower rating is reduced by 20%.

KBWM SCR Drive – NEMA 1



The KBWM Series of DC Drives consist of two models rated for 1/100 to 3/4 horsepower motors and is a compact version of the Multi Drive™ (KBMD) in a NEMA 1 enclosure. This unidirectional SCR drive utilizes the KBMM speed control module, which prevents motor failure due to demagnetization. It requires a Plug-in Horsepower Resistor® to operate and includes an AC line fuse and an Armature fuse holder.* This drive also contains Auto Inhibit® which provides a smooth, safe start during rapid switching of the AC line and a terminal block to facilitate wiring.

*Plug-In Horsepower Resistor® and Armature fuse supplied separately. See page 12.

Maximum HP		AC Line Voltage (50/60 Hz)	Model Number	Part No.	Max. AC Line Current (Amps AC)	Voltage Range (Volts DC)	Max. Load Current (Amps DC)	Net Weight		Dim. Ref. Code ¹
HP	kW							Lbs.	kg	
1/3	0.25	115	KBWM-120	9380	5	0 – 90	3.5	1	0.45	T
3/4	0.56	208/230	KBWM-240	9381	5	0 – 90, 180	3.5			

KBMD SCR Drive – NEMA 1



The Model KBMD-240D, also called Multi-Drive™, is rated for 1/100 to 2 horsepower motors and is an SCR drive in a NEMA 1 enclosure. It utilizes the KBMM speed control for its electronics. It handles both 115 and 208/230 Volts AC line inputs by setting the built-in Dual Voltage Switch. The single model can be used on a wide range of motor horsepower by inserting the appropriate a Plug-In Horsepower Resistor®, which is required to operate this drive. It includes an AC line fuse and an Armature fuse holder.* This drive also contains Auto Inhibit® which provides a smooth, safe start during rapid switching of the AC line.

Options: Auxiliary Heat Sink (P/N 9861), Forward-Brake-Reverse Switch Kit** (P/N 9860).

*Plug-In Horsepower Resistor® and Armature fuse supplied separately. See page 12.

Maximum HP		AC Line Voltage (50/60 Hz)	Model Number	Part No.	Max. AC Line Current (Amps AC)	Voltage Range (Volts DC)	Max. Load Current (Amps DC)	Net Weight		Dim. Ref. Code ¹
HP	kW							Lbs.	kg	
3/4	0.56	115	KBMD-240D	9370	12	0 – 90	8	2	0.9	U
1½	1.13	208/230				0 – 180				
Ratings with Auxiliary Heat Sink (P/N 9861)										
1	0.75	115	KBMD-240D	9370	16	0 – 90	11	3.92	1.78	V
2	1.5	208/230				0 – 90, 180				

**For KBMD-240D with built-in Forward-Brake-Reverse Switch, order Part No. 9371.

1. See Page 8.