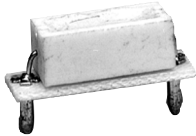


# KB Plug-In Horsepower Resistor® Selection Chart



KB Electronics, Inc.

Motor Characteristics SCR Controls (KBIC, KBMM, KBPB, KBCC, KBWM, KBMD)			Plug-In Horsepower Resistor® Ordering Information			Motor Characteristics PWM Controls (KBWD, KBWS)				
Armature Voltage		Motor Current (approx. amps DC)	Plug-In Horsepower Resistor Value (ohms)	Individual Plug-In Horsepower Resistor Part No.	Reorder Kit 50 pcs. per Value Part No.	SCR Rated Motor Horsepower @ 90 VDC	SCR Rated Motor Horsepower @ 180 VDC	PWM Rated Motor Horsepower @ 130 VDC	PWM Rated Motor Horsepower @ 200 VDC	Motor Current (approx. amps DC)
90 – 130 VDC	180 VDC									
Motor Horsepower Range										
—	—	—	2.0	9949	9950	1/100 – 1/50	1/50 – 1/25	1/50 – 1/25	1/25 – 1/20	.2
1/100 – 1/50	1/50 – 1/25	.1 – .2	1.0	9833	9885	1/30 – 1/20	1/15 – 1/10	1/20 – 1/15	1/8 – 1/6	.4
1/50 – 1/30	1/25 – 1/15	.2 – .3	.51	9834	9886	1/15 – 1/10	1/6 – 1/5	1/12 – 1/8	1/6 – 1/4	.7 – 1.0
1/30 – 1/20	1/15 – 1/10	.3 – .5	.35	9835	9887	—	—	—	—	—
1/20 – 1/12	1/10 – 1/6	.5 – .7	.25	9836	9888	1/8 – 1/6	1/4 – 1/3	1/6 – 1/4	1/3 – 1/2	1.3 – 2.0
1/12 – 1/8	1/6 – 1/4	.7 – 1.0	.18	9837	9889	1/4	1/2	1/3	3/4	2.5
1/8 – 1/6	1/4 – 1/3	1.2 – 1.8	.1	9838	9890	1/3 – 1/2	3/4 – 1	1/2 – 3/4	1 – 1½	3.3 – 6.0
1/4	1/2	2.5	.05	9839	9891	3/4 – 1	—	1 – 1½	—	7.5 – 10.0
1/3	3/4	3.3	.035	9840	9892	—	—	—	—	—
1/2	1	5.0	.025	9841	9893	—	—	—	—	—
3/4	1 – 1/2	7.5	.015	9842	9894	—	—	—	—	—
1	2	10.0	.01	9843	9895	—	—	—	—	—
1½	3	15.0	.006	9850	9896	—	—	—	—	—



# KB Plug-In Fuse Selection Chart

Fuse Selection Chart						
90 VDC Motor	180 VDC Motor	Approx. Motor Current (DC Amps)	Fuse Rating (AC Amps)	Individual Fuse Part No.	Reorder Kit 100 Pcs. Value	Horsepower
1/20	1/10	.5	3/4	9737	9872	
1/15	1/8	.65	1	9738	9873	
1/12	1/6	.85	1½	9739	9874	
1/8	1/4	1.3	2	9740	9875	
1/6	1/3	1.7	2½	9741	9876	
1/4	1/2	2.5	4	9742	9877	
1/3	3/4	3.3	5	9743	9878	
1/2	1	5.0	8	9744	9879	
3/4	1½	7.5	12	9745	9880	
1	2	10.0	15	9746	9881	
1½	3	15.0	25	9747	9882	



Note: Fuses are required on all speed control models except KBCC-255.

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## Plug-in Horsepower Resistor® & Fuses Cross Reference Chart by Speed Control Model

Model	Plug-in Horsepower Resistor®	Line Fuse	Armature Fuse
KBIC/TC All Models	Required	Optional	Optional
KBMM All Models	Required	Available	Available
KBWD All Models	Required	External	External
KBWS All Models	Required	Optional	Optional
KBBC All Models	Not Required	External	External
KBCC Non -R Models	Required	Included	Available
KBCC-255	Not Required*	External	Included
KBCC-240D	Not Required	External	Included
KBCC -R Models	Required	Included	Available
KBPB All Models	Required	Included	Available
KBWT All Models	Not Required*	External	Available
KBMG-212D/-21D	Not Required	External	External
KBRG-240D/-225D	Not Required	Included	Included
KBRG-255	Not Required	External	External
KBWM All Models	Required	Included	Available
KBMD All Models	Required	Included	Available
KBPC-240D	Not Required	External	Included
KBPC-225	Not Required	External	External
KBPW-240D	Not Required	External	External
KBRC-240D	Not Required	External	External
KBAC/KBVF All Models	Not Required	External	Not Required**

**Note:** Fuses are required on all speed control models except KBCC-255.

**Optional** – Optional fuse mounting kit can be added. Fuses to be purchased separately.

**Available** – Provisions for mounting the fuse is provided, but the fuse is not included with the control. Consult the Fuse Selection Chart for proper fuse sizing. Fuse holder can be removed if fuse is not required.

**Included** – Fuse is included with the control. The armature fuse may have to be changed if the control is to be used with a lower rated motor. Consult the Fuse Selection Chart for proper fuse sizing.

**External** – There are no provisions for mounting the fuse on the control. However, we recommend that the customer provide an external means of fusing the control. Consult the Fuse Selection Chart for proper fuse sizing.

**Required** – The control must have a Plug-in Horsepower Resistor® installed, correctly sized by motor horsepower and voltage. Consult the Plug-in Horsepower Resistor® Selection Chart, on the other side, for proper sizing.

**Not Required** – This control uses a jumper for current selection. \*These models have fixed current selection, and use the CL trimpot for current adjustment. \*\*These models have I<sup>2</sup>t Electronic Overload Protection, therefore motor fusing is not required.

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