



Phelan Electromec™

KB ELECTRONICS FUSES & RESISTORS

DC DRIVE FUSE & RESISTOR CHART

MODEL	HP 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	INCLUDED	EXTERNAL
KBCC - NON R MODELS	REQUIRED	EXTERNAL	AVAILABLE
KBCC-255	NOT REQUIRED*	EXTERNAL	INCLUDED
KBCC-240D	NOT REQUIRED	INCLUDED	INCLUDED
KBCC-R MODELS	REQUIRED	INCLUDED	AVAILABLE
KPPB - ALL MODELS	REQUIRED	EXTERNAL	AVAILABLE
KBWT - ALL MODELS	NOT REQUIRED*	EXTERNAL	AVAILABLE
KBMG-212D/21D	NOT REQUIRED	INCLUDED	EXTERNAL
KBRG-240/225D	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**

DRIVE FUSE AND RESISTOR CHART LEGEND

OPTIONAL - Optional fuse mounting kit can be added. Fuses sold separately.

AVAILABLE - Provisions for mounting the fuse are provided, but the fuse is not included with the control.

INCLUDED - Fuse is included with the control. The armature fuse may have to be changed if the control is used with a lower rated motor.

EXTERNAL - There are no provisions for mounting the fuse on the control. We recommend that the customer provide an external means of fusing the control.

REQUIRED - The control must have a Plug-In-Horsepower-Resistor installed, correctly sized by the motor horsepower and voltage.

NOT REQUIRED - This control uses a jumper for current selection.

“*” - These models have fixed current selection, and use the CL trim pot for current adjustment.

(**) - These models have I²T Electronic Overload Protection, therefore fusing is not required.

PLUG IN HORSEPOWER SELECTION CHART

ARMATURE VOLTAGE		APPROX. DC AMPS	RESISTOR VALUE (OHMS)	PART NO.	LIST
90-130 VDC HP	180VDC HP				
-	-	-	2.0	KB 9949	\$4.00
1/100 - 1/50	1/50 - 1/25	.1 - .2	1.0	KB 9833	
1/50 - 1/30	1/25 - 1/15	.2 - .3	.51	KB 9834	
1/30 - 1/20	1/15 - 1/10	.3 - .5	.35	KB 9835	
1/20 - 1/12	1/10 - 1/6	.5 - .7	.25	KB 9836	
1/12 - 1/8	1/6 - 1/4	.7 - 1.0	.18	KB 9837	
1/8 - 1/6	1/4 - 1/3	1.2 - 1.8	.1	KB 9838	
1/4	1/2	2.5	.05	KB 9839	
1/3	3/4	3.3	.035	KB 9840	
1/2	1.0	5.0	.025	KB 9841	
3/4	1.5	7.5	.015	KB 9842	
1.0	2.0	10.0	.01	KB 9843	
1.5	3.0	15.0	.006	KB 9850	

FUSE SELECTION CHART

90 VDC MOTOR HP	180 VDC MOTOR HP	APPROX. MOTOR AMPS	FUSE RATING (AC AMPS)	PART NO.	LIST
1/30	1/15	.33	.5	KB 9736	\$4.00
1/20	1/10	.50	.75	KB 9737	
1/15	1/8	.65	1.0	KB 9738	
1/12	1/6	.85	1.25	KB 9739	
1/8	1/4	1.3	2.0	KB 9740	
1/6	1/3	1.7	2.5	KB 9741	
1/4	1/2	2.5	4.0	KB 9742	
1/3	3/4	3.3	5.0	KB 9743	
1/2	1.0	5.0	8.0	KB 9744	
3/4	1.5	7.5	12.0	KB 9745	
1.0	2.0	10.0	15.0	KB 9746	
1.5	3.0	15.0	25.0	KB 9747	

KB ELECTRONICS MOTOR CONTROLS-ACCESSORIES

DESCRIPTION	PART #	LIST
SIGNAL TRANSFORMER FOR ALL CONTROL MODELS		
KBSI-240D	KB 9431	\$229.00
KBIC Accessories		
Combination Fuse Kit	KB 9849	\$11.00
Barrier Terminal Kit	KB 9863	\$55.00
Barrier Terminal Board	KB 9884	\$37.00
Signal Isolator (SI-5)	KB 9443	\$191.00
KBMM Accessories		
Finger Safe Cover	KB 9564	\$10.00
Barrier Terminal Kit	KB 9883	\$54.00
Barrier Terminal Board	KB 9897	\$35.00
Signal Isolator (SI-6)	KB 9444	\$191.00
Run-Brake Module	KB 9552	\$94.00
KBIC / KBMM Accessories		
Forward-Brake-Reverse Switch (BD Resistor sold separately)	KB 9844	\$101.00
Dynamic Braking Resistor. 10 Ohm, 70 Watt	KB 9865	\$28.00
Dynamic Braking Resistor. 10 Ohm, 30 Watt	KB 9864	\$25.00
KBWD / KBWS Accessories		
Combination Fuse Kit	KB 9849	\$11.00
KBMG Accessories		
SIIMG Signal Isolator	KB 8832	\$173.00
Multi-Speed Board	KB 8833	\$90.00
KBRG Accessories		
SI-4X Signal Isolator	KB 8801	\$218.00
KBMD Accessories		
Forward-Brake-Reverse Mechanical Switch	KB 9860	\$134.00
KBPC / KBPW Accessories		
Forward-Brake-Reverse Mechanical Switch (240D only)	KB 9339	\$134.00
(APRM-PC) w/Switch Kit (240D only)	KB 9378	\$198.00
On/Off AC Line Switch Kit (240D only)	KB 9341	\$38.00
On/Off AC Line Switch Kit (225D only)	KB 9523	\$38.00
Auto/Manual Switch Kit	KB 9377	\$40.00
Stop/Start Switch Kit	KB 9393	\$40.00
KBRC Accessories		
SIRC - Signal Isolator	KB 8842	\$230.00
Forward-Stop-Reverse Switch Kit	KB 9485	\$24.00
On/Off Line Switch Kit	KB 9486	\$40.00
Auto/Manual Switch Kit	KB 9487	\$40.00
KBVF Accessories		
SIVFR-2G Signal Isolator	KB 9597	\$102.00
KBVF-MSB Multi-Speed Board	KB 9503	\$91.00
DBVF - Dynamic Brake Module (230 only)	KB 9598	\$193.00
DIVF - Modbus Serial Adapter (230 only)	KB 9568	\$116.00

DESCRIPTION	PART #	LIST
KBMA Accessories		
Forward-Stop-Reverse Switch Kit	KB 9519	\$42.00
KBAC Accessories		
SIAC-2G Signal Isolator	KB 9600	\$95.00
SIAG-2G with Auto/Manual Switch Kit	KB 9605	\$144.00
Forward-Stop-Reverse Switch Kit	KB 9480	\$40.00
Auto/Manual Switch Kit	KB 9481	\$40.00
KBAC / KBDA Accessories		
-24D Power On/Off Switch Kit	KB 9482	\$38.00
3 Phase Power On/Off Switch Kit	KB 9532	\$81.00
-27D Power On/Off Switch Kit, also for -29 (1 phase)	KB 9523	\$67.00
-24D CE AC Line Filter Class A (Factory installed only)	KB 9507	\$86.00
-27D CE AC Line Filter Class A (Factory installed only)	KB 9512	\$53.00
CE 3 Phase AC Line Filter Class A (NS) (Factory installed only)	KB 9479	\$149.00
CE 3 Phase AC Line Filter Class A (S) (Factory installed only)	KB 9515	\$149.00
Liquid Tight Fittings	KB 9526	\$58.00
KBDA Accessories		
IODA Input/Output Module	KB 9668	\$201.00
3P On/Off Switch for -24P, 42	KB 9768	\$67.00
3PF On/Off Switch for 24P, 42 w/Filter	KB 9762	\$67.00
RFAC 3P for -24P, 42 (Factory Installed Only)	KB 9465	\$117.00
ACCESSORIES FOR ALL CONTROLS		
7" Auxiliary Heatsink - KBIC, KBMM, KBMG, KBMD	KB 9861	\$75.00
Run-Stop-Jog Switch Kit - KBPC, KBPW, KBAC	KB 9340	\$40.00
Din Rail Mounting Kit for "L" Bracket Controls	KB 9995	\$29.00
Choke, 3 wire (Installs between Control and AC Motor)	KB 9992	\$26.00
Choke, 2 wire, AC Line or DC motor	KB 9993	\$26.00
KBRF-200A CE AC Line Filter for SCR Controls Class A	KB 9945	\$75.00
KBRF-250 CE AC Line Filter for SCR Controls under "L" Bracket Controls	KB 9509	\$151.00
KBRF-300 CE AC Line Filter Class B	KB 9484	\$161.00
KBRF-350 CE AC Line Filter Class B for under KBVF and "L" Bracket Controls	KB 9511	\$223.00
Conductive Plastic Potentiometer 5K (No Switch) Pot included with most Controls	KB 9111	\$7.00
Conductive Plastic Potentiometer 5K w/ On/Off Switch	KB 9114	\$12.00
Wire wound Potentiometer 5K (No Switch)	KB 9831	\$13.00
Replacement Potentiometer Kit for Enclosed Controls	KB 9510	\$26.00
Seal Kit for NEMA 4X Controls when Start/Stop Switch is removed - KBPC, KBRC, KBAC, KBPW	KB 9518	\$6.00
Knob & Dial Kit - Large Dial Plate	KB 9832	\$10.00
Knob & Dial Kit - Small Dial Plate	KB 9815	\$10.00



NOTE: Pricing and specifications subject to change without notice.