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**SUBJECT: LOW VOLTAGE MODIFICATION OF THRU HOLE
KBMM AND KBIC DC DRIVES**

This technical note will explain the component changes necessary to convert KBIC and KBMM DC Drive's to run low voltage sub-fractional, motors. Please refer to the chart below for proper modification procedures. You may contact the KB Sales Department if you need additional assistance.

LOW VOLTAGE MODIFICATION FOR THRU HOLE KBMM AND KBIC DC DRIVE'S

Input Voltage (VAC)	Output Voltage (VDC)	Control Model	CIRCUIT REFERENCE						
			R17	R17A	R19	R19A	R39	Z1	Z2
36	24	KBMM ¹	470 □1W	---	---	10K .25W	150 □ .25W	7.5V 1W	15V 1W
48	24	KBMM ¹	1K 2W	---	---	22K .25W	150 □ .25W	7.5V 1W	15V 1W
60-70	48	KBMM ¹	1.8K 3W	---	---	30K .25W	150 □ .25W	7.5V 1W	15V 1W
36	24	KBIC ²	---	470 □1W ²	22K .25W	---	150 □ .25W	7.5V 1W	15V 1W
48	24	KBIC	---	1K 2W	27K .25W	---	150 □ .25W	7.5V 1W	15V 1W
60-70	48	KBIC	---	1.8K 3W	47K .25W	---	150 □ .25W	7.5V 1W	15V 1W

¹ On KBMM 240VAC Models J1 must be changed to a Jumper.

² On KBIC models with 36 VAC input, remove R17A resistor; install 470□ resistor in R17B location.

Please consult the factory for different input or output voltage modifications.

Sincerely,

Alan Bueller
Vice President Sales