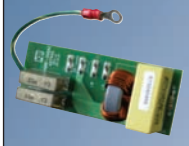
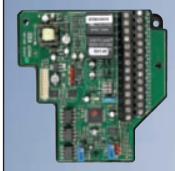
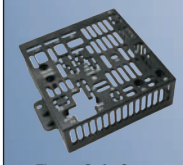
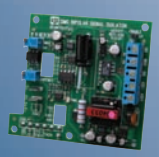
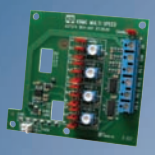
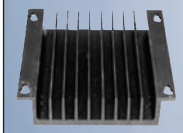
SPEED CONTROL ACCESSORIES

		DESCRIPTION	Model	Part No.	Models Where Used
KBAC, KBDA AC Line Filters	 RFAC	The RFAC Line Filters are used to suppress electrical interference to within acceptable levels as determined by the CE Council Directive 89/336/EEC relating to the Class A Industrial Standard. The RFAC-24 is rated 10 Amps at 230 Volts AC, the RFAC-27D is rated 22 Amps at 230 Volts AC and the RFAC-4X is rated 10 Amps at 460 VAC. ***Notes: 1.*** *Suffix "NS" indicates line filter must be used without the Power On/Off Switch Kit.*	RFAC-24 CE Approved Built-In AC Line Filter	9507	KBAC-24D KBDA-24D
			RFAC-27D CE Approved Built-In AC Line Filter	9512	KBAC-27D KBDA-27D
			RFAC-4X CE Approved Built-In AC Line Filter	9479	KBAC-29, 45, 48 KBDA-29, 45, 48
			RFAC-4X NS CE Approved Built-In AC Line Filter	9515	
KBDA Accessory	 IODA	The IODA Input/Output Multi-Function Board provides a variety of functions which include preset frequency, up/down frequency control, signal isolation, isolated output voltage for controlling auxiliary devices, output relay contacts, and open collector outputs. The IODA mounts on the drive's PC board with 2 snap-ins (located on the bottom of the mounting base) and 2 screws (provided). All of the IODA inputs and outputs are isolated from the AC line	IODA	9668	KBDA KBMK
KBIC, KBMM Accessories	 Barrier Terminal	The Barrier Terminal Accessory Kit converts a standard KBIC® from 1/4" Q-D terminals to barrier terminals. It installs easily with its preformed wiring harness and is compatible with KB's 7" Auxiliary Heat Sink. The Kit contains AC line and armature fuse holders (fuses supplied separately).	Barrier Terminal Kit	9863	KBIC
				9883	KBMM
	 Barrier Terminal Board	The Barrier Terminal Boards easily convert a standard control with quick-connect terminals to barrier terminals with AC line and armature fuse holders. (Fuses supplied separately.) The Barrier Terminal Board installs directly over the control by mating the Q-D terminals. A separate .110" jumper wire can be used to connect to the I1 Inhibit terminal.	Barrier Terminal Board	9884	KBIC
				9897	KBMM
	 SI-5, SI-6	The Signal Isolators convert a standard control to an isolated input. By using external resistors, the input signal can be changed to 0-100VDC, 0-200VDC and 4-20mA. The output voltage is 0-10VDC which can be rescaled with the built-in MIN and MAX trimpots. Selectable AC line jumpers allow the SI-5 to be used either with 115 or 208/230 Volts AC controls. Installation is made by simply mating the unit to the speed control with the built-in quick-connect terminals.	Signal Isolator (SI-5)	9443	KBIC
			Signal Isolator (SI-6)	9444	KBMM
KBMM Finger Safe Cover	 Finger Safe Cover	The Finger Safe Cover converts the KBMM from an "open chassis" to the IP-20 standard. Constructed of high temperature ABS, it installs easily with the two screws provided. Note: the AC line and armature fuse holders must be removed before installing the Finger Safe Cover.	Finger Safe Cover	9564	KBMM
KBMG Accessory	 SIMG	The SIMG is used to isolate, amplify, and condition DC voltage signals from any source (power supplies, motors, tach-generators, transducers, and potentiometers) to control the KBMG Series of Regenerative Drive. Input connections (+15V, -15V, SIG, COM, and EN) are made with a barrier terminal block and are isolated from AC line and motor wiring. The SIMG is factory calibrated to accept a signal input voltage of -10V to +10V DC. OFFSET and MAX trimpots are provided in order to recalibrate the SIMG for a specific application.	SIMG Bi-Polar Signal Isolator	8832	KBMG

SPEED CONTROL ACCESSORIES

		DESCRIPTION	Model	Part No.	Models Where Used
KBMG Accessory	 KBMG-MSB	The KBMG Multi-Speed Board provides 4-user selectable preset speeds to control a motor connected to the KBMG Series Regenerative Drive. A preset (PS 1, PS 2, PS 3, PS 4) is selected with a contact closure or open collector. Motor direction is set by the position of Jumper R/F (reverse/forward) which is provided for each preset. Connections to the Multi-Speed Board are made with a barrier terminal block. A connector is available for a tach-generator, if required.	KBMG Multi Speed Board (MSB)	8833	KBMG-21D, 212D
KBPC-240D, KBPW-240D Accessories	 F-B-R Switch	The Forward-Brake-Reverse Switch Kit is designed to mount in the cover of the KBPC and KBPW speed controls. The switch reconnects the motor armature wires to reverse the motor, and includes a "hesitation" feature which is designed to prevent "plug reversing" the DC motor. A dynamic brake resistor is included, providing for up to 3 cycles per minute.	KBPC Forward-Brake-Reverse Switch Kit	9339	KBPC-240D, KBPW-240D
	 APRM-PC	The APRM-PC is designed to provide anti-plug "instant" reversing and solid state dynamic braking for the KBPC and KBPW controls. The APRM-PC mounts inside the front cover of the control. It connects using the wiring harness (provided) with QD terminals and includes a three position Forward-Brake-Reverse switch which also mounts on the cover.	KBPC Anti Plug Reversing Module	9378	KBPC-240D, KBPW-240D
	 On/Off Switch	The On/Off AC Line Switch Kit provides a positive disconnect of the AC line to the control. When used to replace the standard Start/Stop switch, the control is converted from a 3-wire control to a 2-wire control, providing automatic restart after a power outage. The switch connects to the control using the wiring harness with QD terminals (provided). A separate ON-OFF label is provided.	KBPC, On/Off AC Line Switch Kit	9341	KBPC-240D, KBPW-240D
	 Auto/Manual Switch	The Auto/Manual Switch Kit provides the ability to select the control's speed reference from either the Main Speed Potentiometer or a remote signal when used with the optional Signal Isolator (Part No. 9431). The switch mounts in the Brake switch position, and a separate AUTO-MANUAL label is included.	KBPC, KBPW Auto/Manual Switch Kit	9377	KBPC-240D, KBPW-240D
Accessories for All Controls	 Auxiliary Heat Sink	The Auxiliary Heat Sink is used to increase the rating of several KB control models. It is constructed of black anodized aluminum and has keyhole slots to facilitate mounting. When used with the KBIC® and KBMM™ models, the Auxiliary Heat Sink has provision for mounting the Barrier Terminal Accessory Kit.	Auxiliary Heat Sink (7")	9861	KBIC, KBMM, KBMG, KBPB, KBMD, etc...
	 DIN Rail	The DIN Rail mounting kit consists of a mounting plate and two mounting clips. This accessory makes it possible to mount any "L" bracket control onto a DIN rail. The kit can be attached on the short side or long side of the "L" bracket. When used on the long side, it allows for either horizontal or vertical mounting of the control. For short side mounting, only one clip is used.	Din Rail Mounting Kit	9995	KBIC, KBMM, KBVF, KBPB, KBMG, etc...
	 Potentiometer Kit	The Potentiometer Kit consists of a 5k ohm linear potentiometer with mounting hardware and front panel insulator. Two types are offered. The wire wound type is rated 5 watts with excellent linearity and zero end resistance. The conductive plastic type is rated 1/3 watt and is fitted with a nylon shaft and isolated brass mounting bushing.	Potentiometer Kit (No Switch)	9111	All Controls
			Potentiometer Kit (w/On-Off Switch)	9114	All Controls
			Wire-Wound Potentiometer Kit (No Switch)	9831	All Controls

SPEED CONTROL ACCESSORIES

		DESCRIPTION	Model	Part No.	Models Where Used
Accessory for All Controls	 Knob and Dial	Two Knob/Dial Kits are available. Both contain black knobs with silver inserts. Dial Plates are .040" aluminum with 3/8" mounting hole. Dimensions (L x W approx.): large dial plate: 2.25" x 2.06", small dial plate: 1.62" x 1.50".	Knob and Dial Kit (Large Dial Plate)	9832	All Controls
			Knob and Dial Kit (Small Dial Plate)	9815	All Controls
RFI / EMI Filters	 KBRF-200A	The KBRF-200A is an RFI filter used to suppress electronic interference caused by motor speed controls to within acceptable levels as determined by the CE Council Directive 89/336/EEC relating to EMC. Rated 24 Amps AC Maximum – 115/230 VAC, 50/60 Hz.	KBRF-200A CE Approved AC Line Filter (Class A)	9945	All Controls
	 KBRF-250	The KBRF-250 is an RFI filter used to suppress electronic interference caused by motor speed controls. The KBRF-250 is primarily designed as an integral mounting base for speed controls with industry standard mounting requirements such as the KBVF Series Inverter, PWM DC Speed Controls, and SCR Speed Controls. Installation is easily accomplished with quick-connect terminals. It is housed in a plated steel case which is to be grounded with the external ground screw or mounting tab. Rated 10 Amps at 230 Volts Ac. CE approved meets (Class A) industrial.	KBRF-250 CE Approved AC Line Filter (Class A)	9509	KBVF, KBIC, KBMM, KBWD, KBWS, KBMG
	 KBRF-300	The KBRF-300 is an RFI filter used to suppress electronic interference caused by motor speed controls to within acceptable levels as determined by the CE Council Directive 89/336/EEC relating to EMC. Rated 16 Amps at 115 or 208/230 Volts AC – 115/230 VAC, 50/60 Hz.	KBRF-300 CE Approved AC Line Filter (Class B)	9484	All Controls
	 KBRF-350	The KBRF-350 is an RFI filter used to suppress electronic interference caused by motor speed controls. The KBRF-350 is primarily designed as an integral mounting base for speed controls with industry standard mounting requirements such as the KBVF Series Inverter, PWM DC Speed Controls, and SCR Speed Controls. Installation is easily accomplished with quick-connect terminals. It is housed in a plated steel case which is to be grounded with the external ground screw or mounting tab. Rated 10 Amps at 230 Volts AC. CE approved meets (Class B) residential.	KBRF-350 CE Approved AC Line Filter (Class B)	9511	KBVF, KBIC, KBMM, KBWD, KBWS, KBMG

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PC – 10K – 07/2010

SPEED CONTROL ACCESSORIES

		DESCRIPTION	Model	Part No.	Models Where Used
Signal Isolator	 KBSI-240D	The Model KBSI-240D Signal Isolator provides an isolated interface between non-isolated signals and KB motor speed controls. The maximum output voltage of the KBSI is 10 Volts DC, which is a linear function of the input. The unit is versatile, since a single model accepts a wide range of voltage (0-25, 0-120 and 0-550 Volts DC) and current (1-5, 4-20 and 10-50mA) signals, multi-turn trimpots are provided for MIN and MAX. The KBSI can be operated from either 115V or 208/230 Volts AC, 50/60Hz.	KBSI-240D	9431	All Controls
KBVF Inverter Accessories	 SIVFR	The SIVFR is used to isolate, amplify, and condition DC voltage and current signals from any source (power supplies, motors, tachometer generators, transducers, and potentiometers). It also provides isolated inputs to control motor direction and an isolated power supply for transducer or potentiometer operation. All input connections are isolated from the AC line and motor wiring. The SIVFR installs easily onto the side of the drive with the mounting base and two screws (provided). An adapter bracket is provided for use with 1/2 HP model drives. The SIVFR is supplied with a finger-safe panel, which may be used with the enclosure cover to close the unused exposed area of the SIVFR between Terminal Blocks TB1 and TB2.	SIVFR Signal Isolator and Run/Fault Relay	9597	KBVF
	 KBVF-MSB	The KBVF Multi-Speed Board (MSB) provides (4) - user selectable preset speeds to control a motor connected to the KBVF Adjustable Frequency Drive. The motor speed for each preset is adjustable via trimpot settings which can be fine tuned by using the HI-LO range jumpers. Motor direction is set by the position of Jumper R/F (forward/reverse) which is provided for each preset. Connections to the Multi-Speed Board are made with a barrier terminal block. The MSB mounts onto the side of the KBVF.	Multi-Speed Board	9503	KBVF, KBAC
	 DBVF	The DBVF is a transistor controlled dynamic brake. It increases the standard braking torque of the KBVF from 25% to over 100%. It is designed for all 230 VAC output models.	Dynamic Brake Moudule	9598	KBVF
KBAC Inverter Accessories	 F-S-R Switch	The Forward-Stop-Reverse Switch Kit is designed for installation on the front cover of the KBAC inverters. It is used to provide electronic reversing for the KBAC.	Forward-Stop-Reverse Switch Kit	9480	KBAC
	 Auto/Manual Switch	The Auto/Manual Switch Kit is designed for installation on the front cover of the KBAC inverters. It is suggested that the SIAC Signal Isolator (KB P/N 9600) be used with the Auto/Manual Switch Kit to provide signal isolation between the signal source and the KBAC.	Auto/Manual Switch Kit	9481	KBAC
	 On/Off Switch	The Power On/Off Switch Kit is designed to provide a positive AC line power disconnect. It can be installed in lieu of, or in addition to, the factory installed Start/Stop Switch assembly. For Models KBAC-24D, 27D, the switch is double pole, which is used to disconnect both AC line wires. If only one AC line is to be disconnected, a single pole can be used. Refer to local electrical codes that apply. For Models KBAC-29, 45, 48, the switch is triple pole, which is used to disconnect all three AC line wires.	Power On/Off Switch Kit	9482 9523 9532	KBAC-24D KBAC-27D KBAC-29, 45, 48
	 SIAC	The SIAC is used with the KBAC series inverters to isolate, amplify and condition DC voltage and current signals from any source (tach-generators, transducers, PLCs and potentiometers). It also provides an isolated input to control motor direction and an isolated power supply for transducer or potentiometer operation. All input connections are isolated from the AC line and motor wiring.	SIAC Signal Isolator	9600	KBAC