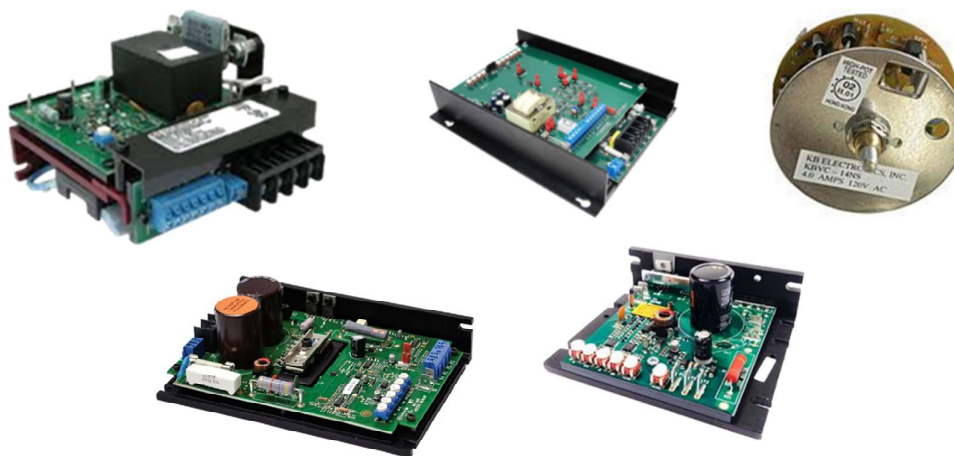




## KB Electronics

# EOL Products Crossover Transition Guide



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# Crossover Guide

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This reference material provides crossover suggestions based on hp/Amp ratings. Application specifics should be reviewed by a KB Electronics Application Engineer. For additional assistance, call 1-800-893-2321.



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# Crossover Guide

## KBPB SCR Drive Relay Reversing DC Drive

| KBPB Relay Reversing SCR Drive (Chassis) |      |                 |              |             |                |                           | Crossover Suggestion<br>KBMG & KBRG Regen Reversing SCR Drive (Chassis) |      |                 |              |             |                           |
|------------------------------------------|------|-----------------|--------------|-------------|----------------|---------------------------|-------------------------------------------------------------------------|------|-----------------|--------------|-------------|---------------------------|
| Maximum HP                               |      | AC Line Voltage | Model Number | Item Number | Heatsink Item# | Dimensions H x W x D (in) | Maximum HP                                                              |      | AC Line Voltage | Model Number | Item Number | Dimensions H x W x D (in) |
| HP                                       | Amps |                 |              |             |                |                           | HP                                                                      | Amps |                 |              |             |                           |
| 0.75                                     | 8    | 115             | KBPB-125     | 8900        |                | 4.3 x 4.9 x 5.0           | 0.75                                                                    | 8    | 115             | KBMG-212D    | 8831        | 4.3 x 3.6 x 1.8           |
| 1.5                                      | 16   | 115             | KBPB-125     | 8900        | 9861           | 7.0 x 6.3 x 6.5           | 1.5                                                                     | 16   | 208/230         | KBRG-225D    | 8800        | 10 x 7.7 x 3.4            |
| 1.5                                      | 8    | 208/230         | KBPB-225     | 8901        |                | 4.3 x 4.9 x 5.0           | 1                                                                       | 8    | 115             | KBMG-212D    | 8831        | 7.0 x 6.3 x 3.2           |
| 3                                        | 16   | 208/230         | KBPB-225     | 8901        | 9861           | 7.0 x 6.3 x 6.5           | 3                                                                       | 16   | 208/230         | KBRG-225D    | 8800        | 10 x 7.7 x 3.4            |



### Differences to Note:

- The KBPB-125 is a KBMM-125 drive combined with an APRM-3 (Anti-Plug Reversing Module) in a stacked configuration and cannot be replicated using standard components.
- The KBPB-225 is a KBMM-225 drive combined with an APRM-3 (Anti-Plug Reversing Module) in a stacked configuration and cannot be replicated using standard components.
- KBPB models have a maximum limit of 10 stops/reversals per minute, based on a brake time of 1 second.
- The KBRG-225D and the KBMG-212D drives include dual voltage input power control, reversing, regenerative braking and no limitations when operating in reverse mode.
- KBMG-212D drive is rated to 10 Amps when mounted to an additional 7" Auxiliary heatsink (Item# 9861).
- For higher current applications, the KBRG-225D model is rated to handle up to 16A.
- The KBMG-212D provides the options to Coast to Stop (CTS) or to use Regenerative braking to Stop (RTS).



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## KBCC-240D SCR DC Drive with Barrier Terminal Block & AC Line Fuse

| KBCC Non-Reversing SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBPC-240D SCR Drive (NEMA 4X) |      |                 |              |             |                              |
|----------------------------------------|------|-----------------|--------------|-------------|------------------------------|-------------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP                             |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                            |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                                     | Amps |                 |              |             |                              | HP                                                    | Amps |                 |              |             |                              |
| 1                                      | 10.2 | 115             | KBCC-240D    | 9947        | 7.0 x 6.3 x 3.0              | 1                                                     | 10.2 | 115             | KBPC-240D    | 9338        | 9.5 x 6.0 x 5.0<br>(NEMA 4X) |
| 2                                      |      | 208/230         |              |             |                              | 2                                                     |      | 208/230         |              |             |                              |



### Differences to Note:

- The KBCC-240D is a chassis-mount version of the KBPC-240D, and it is mounted on a 7-inch heatsink.
- The KBPC-240D has a NEMA 4X aluminium enclosure.

## KBCC-125 & KBCC-225 SCR DC Drive with Barrier Terminal Block & AC Line Fuse

| KBCC Non-Reversing SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBMM SCR Drives (Chassis) |      |                 |                               |             |                              |
|----------------------------------------|------|-----------------|--------------|-------------|------------------------------|---------------------------------------------------|------|-----------------|-------------------------------|-------------|------------------------------|
| Maximum HP                             |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                        |      | AC Line Voltage | Model Number                  | Item Number | Dimensions<br>H x W x D (in) |
| HP                                     | Amps |                 |              |             |                              | HP                                                | Amps |                 |                               |             |                              |
| 1.5                                    | 16   | 115             | KBCC-125     | 9936        | 6.3 x 7.0 x 4.0              | 1.5                                               | 16   | 115             | KBMM-225D on<br>a 7" heatsink | 9451 & 9861 | 7.0 x 6.3 x 2.6              |
|                                        |      |                 |              |             |                              | 3.0                                               |      | 208/230         |                               |             |                              |
| 3                                      | 16   | 208/230         | KBCC-225     | 9938        | 6.3 x 7.0 x 4.0              | 1.5                                               | 16   | 115             | KBMM-225D on<br>a 7" heatsink | 9451 & 9861 | 7.0 x 6.3 x 2.6              |
|                                        |      |                 |              |             |                              | 3.0                                               |      | 208/230         |                               |             |                              |



### Differences to Note:

- KBCC-125 is a KBMM-125 mounted on a 7-inch heatsink (Item #9861) with an additional Barrier Terminal Kit (Item #9883).
- KBCC-225 is a KBMM-225 mounted to a 7" heatsink (Item# 9861) with an additional Barrier Terminal Kit (Item# 9883).
- The KBMM-225D features a jumper-selectable dual input voltage option and can be used as a replacement drive for the KBCC-125 or KBCC-225.
- Field wiring can be connected directly to KBMM drives. Alternatively, a Barrier Terminal Kit (Item #9883) or a Barrier Terminal Board (Item #9897) can be used.



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# Crossover Guide

## KBCC-255 SCR DC Drive with Barrier Terminal Block & AC Line Fuse

| KBCC Non-Reversing SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBRG Regen Reversing SCR Drive (Chassis) |      |                 |              |             |                              |
|----------------------------------------|------|-----------------|--------------|-------------|------------------------------|------------------------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP                             |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                                       |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                                     | Amps |                 |              |             |                              | HP                                                               | Amps |                 |              |             |                              |
| 5                                      | 26   | 230             | KBCC-255     | 9940        | 10.0 x 6.3 x 3.5             | 5                                                                | 25   | 1               | KBRG-255     | 8821        | 12 x 7.7 x 3.4               |



### Differences to Note:

- KBCC-255 is a 5 HP unidirectional drive.
- The KBRG-255 is a 5 HP regenerative drive that supports regenerative braking and reversing functions.

## KBCC SCR Reversing DC Drive with Barrier Terminal Block & AC Line Fuse

| KBCC Reversing SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBRG Regen SCR Drive (Chassis) |      |                 |              |             |                              |
|------------------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP                         |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                             |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                                 | Amps |                 |              |             |                              | HP                                                     | Amps |                 |              |             |                              |
| 1.5                                | 16   | 115             | KBCC-125R    | 9937        | 6.3 x 9.0 x 4.0              | 1                                                      | 16   | 115             | KBRG-225D    | 8800        | 10 x 7.7 x 3.4               |
|                                    |      |                 |              |             |                              | 3                                                      |      | 208/230         |              |             |                              |
| 3                                  | 16   | 208/230         | KBCC-225R    | 9924        | 6.3 x 9.0 x 4.0              | 1                                                      | 16   | 115             | KBRG-225D    | 8800        | 10 x 7.7 x 3.4               |
|                                    |      |                 |              |             |                              | 3                                                      |      | 208/230         |              |             |                              |



### Differences to Note:

- KBCC-125R and KBCC-225R have a maximum stop/reversing rate of 30 times per minute, based on a 1-second stop time.
- The KBRG-225D and KBMG-212D drives feature dual voltage input power control, reversing capability, regenerative braking, and have no limitations when operating in reverse mode.
- The KBMG-212D provides the options to Coast to Stop (CTS) or to use Regenerative braking to Stop (RTS).
- KBMG-212D drive is rated to 10 Amps when mounted to an additional 7" Auxiliary heatsink (Item# 9861).



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# Crossover Guide

## KBRG-212D SCR Regen Reversing DC Drive

| KBRG-212D Regen SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBMG-212D Regen SCR Drive (Chassis) |      |                 |              |             |                              |
|-------------------------------------|------|-----------------|--------------|-------------|------------------------------|-------------------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP                          |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                                  |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                                  | Amps |                 |              |             |                              | HP                                                          | Amps |                 |              |             |                              |
| 0.75                                | 7.5  | 115             | KBRG-212D    | 8819        | 7.0 x 4.8 x 1.7              | 0.75                                                        | 8    | 115             | KBMG-212D    | 8831        | 4.3 x 3.6 x 1.8              |
| 1.5                                 |      | 208/230         |              |             |                              | 1.5                                                         |      | 230             |              |             |                              |



### Differences to Note:

- The KBRG-212D includes signal isolation and the KBMG series requires the SIMG isolation board (Item #8832) for signal isolation.
- The KBMG features a compact footprint.

## KBPI SCR Indexing DC Drive

| KBPI SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion            |      |                 |              |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|---------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                      |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                              | Amps |                 |              |             |                              |
| 1                        | 10.2 | 115             | KBPI-240D    | 8500        | 9.5 x 6.0 x 5.0              | No Direct Crossover Replacement |      |                 |              |             |                              |
| 2                        |      | 208/230         |              |             |                              |                                 |      |                 |              |             |                              |
| 1                        | 10.2 | 115             | KBPI-240DR   | 8501        | 9.5 x 6.0 x 5.0              |                                 |      |                 |              |             |                              |
| 2                        |      | 208/230         |              |             |                              |                                 |      |                 |              |             |                              |



### Differences to Note:

- The KBPI-240D and KBPI-240DR are designed for indexing applications.
- The KBRC-240D functions as a regenerative drive and does not include the operational capabilities of the KBPI indexer.



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# Crossover Guide

## KBWD PWM DC Drive

| KBWD PWM Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBMM SCR Drive (Chassis) |      |                 |              |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                                               | Amps |                 |              |             |                              |
| 0.33                     | 3    | 115             | KBWD-13      | 8609        | 3.6 x 4.3 x 2.5              | 1.5                                              | 16   | 115             | KBMM-125     | 9449        | 4.3 x 3.6 x 1.3              |
| 0.5                      | 5    | 115             | KBWD-16      | 8607        | 3.6 x 4.3 x 2.5              |                                                  |      |                 |              |             |                              |



### Differences to Note:

- The KBWD is designed to provide optimal performance for DC PWM motors with an output voltage of 0-130VDC, while the KBMM-125 is designed to operate PM motors with an output voltage of 0-90VDC.
- Using an SCR drive to operate a DC motor designed for PWM drives can result in increased motor audible noise.

## KBWS PWM Drive with Signal Isolation

| KBWS PWM Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBMM SCR Drive (Chassis) |      |                 |                        |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|------------------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number           | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                                               | Amps |                 |                        |             |                              |
| 0.33                     | 2.5  | 115             | KBWS-22D     | 9492        | 3.6 x 4.3 x 2.2              | 0.75                                             | 8    | 115             | KBMM-225D<br>with SI-6 | 9451 & 9444 | 4.3 x 3.6 x 1.3              |
| 0.75                     |      | 208/230         |              |             |                              | 1.5                                              |      | 208/230         |                        |             |                              |
| 0.75                     | 5    | 115             | KBWS-25D     | 9493        | 3.6 x 4.3 x 3.2              | 0.75                                             |      | 115             |                        |             |                              |
| 1.5                      |      | 208/230         |              |             |                              | 1.5                                              |      | 208/230         |                        |             |                              |



### Differences to Note:

- The KBWS is designed to provide optimal performance to DC PWM motors and includes built in isolation. A signal isolation SI-6 card (Item #9444) is required when replacing a drive with a KBMM SCR drive.
- Using an SCR drive to operate a DC motor designed for PWM drives can result in increased motor audible noise.



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## KBWT PWM Drive

| KBWT PWM Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBMM SCR Drive (Chassis) |      |                 |                  |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|------------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number     | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                                               | Amps |                 |                  |             |                              |
| 0.75                     | 10   | 115             | KBWT-16      | 8614        | 7.0 x 6.75 x 1.43            | 0.75                                             | 16   | 115             | KBMM-125 with HS | 9449 & 9861 | 7.0 x 6.3 x 2.6              |
| 1.5                      | 10   | 230             | KBWT-26      | 8615        | 7.0 x 6.75 x 1.43            | 1.5                                              | 8    | 208/230         | KBMM-225 with HS | 9450 & 9861 |                              |



### Differences to Note:

- The KBWT-16 and KBWT-26 are designed to provide optimal performance for DC PWM motors with an output voltage range of 0-130VDC, while the KBMM drive series is designed to operate PM motors with output voltage options of 0-90VDC and 0-180VDC.
- Using an SCR drive to operate a DC motor designed for DC PWM drives can result in increased motor audible noise.

## KBPW PWM Drive

| KBPW PWM Drive (NEMA 4X) |      |                 |                 |             |                              | Crossover Suggestion<br>KBPC SCR Drive (NEMA 4X) |      |                 |                 |             |                              |
|--------------------------|------|-----------------|-----------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|-----------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number    | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number    | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |                 |             |                              | HP                                               | Amps |                 |                 |             |                              |
| 1                        | 7.5  | 115             | KBPW-240D       | 8401        | 9.5 x 6.0 x 5.0              | 1                                                | 10.2 | 115             | KBPC-240D       | 9338        | 9.5 x 6.0 x 5.0              |
| 2                        |      | 208/230         |                 |             |                              | 2                                                |      | 208/230         |                 |             |                              |
| 1                        | 7.5  | 115             | KBPW-240D (WHT) | 8402        | 9.5 x 6.0 x 5.0              | 1                                                | 10.2 | 115             | KBPC-240D (WHT) | 9342        | 9.5 x 6.0 x 5.0              |
| 2                        |      | 208/230         |                 |             |                              | 2                                                |      | 208/230         |                 |             |                              |



### Differences to Note:

- The KBPW-240D drive provides optimal performance for DC PWM motors with output voltage options of 0-130VDC, 0-180VDC, and 0-260VDC.
- Using an SCR drive to operate a DC motor designed for PWM drives can result in increased motor audible noise.



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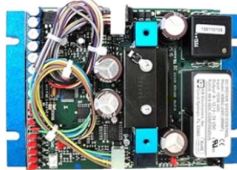
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# Crossover Guide

## KBBC Reversing DC/DC Drive Series

| KBBC DC/DC Drive (Chassis) |      |                  |              |             |                              | Crossover Suggestion            |      |                             |              |             |                              |
|----------------------------|------|------------------|--------------|-------------|------------------------------|---------------------------------|------|-----------------------------|--------------|-------------|------------------------------|
| Maximum HP                 |      | DC Input Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                      |      | DC Input Voltage<br>Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                         | Amps |                  |              |             |                              | HP                              | Amps |                             |              |             |                              |
| 0.5                        | 40   | 12               | KBBC-24M     | 9500        | 6.3 x 4.1 x 1.7              | No Direct Crossover Replacement |      |                             |              |             |                              |
| 1                          |      | 24               |              |             |                              |                                 |      |                             |              |             |                              |
| 0.5                        |      | 12               |              |             |                              |                                 |      |                             |              |             |                              |
| 1                          | 40   | 24               | KBBC-44M     | 9501        | 6.3 x 4.1 x 1.7              |                                 |      |                             |              |             |                              |
| 1.5                        |      | 36               |              |             |                              |                                 |      |                             |              |             |                              |
| 2                          |      | 48               |              |             |                              |                                 |      |                             |              |             |                              |



## KBBW DC/DC Drive Series

| KBBC DC/DC Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion            |      |                 |              |             |                              |
|----------------------------|------|-----------------|--------------|-------------|------------------------------|---------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP                 |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                      |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                         | Amps |                 |              |             |                              | HP                              | Amps |                 |              |             |                              |
| 0.17                       | 14   | 115             | KBBW-12      | 9140        | 3.7 x 4.3 x 1.7              | No Direct Crossover Replacement |      |                 |              |             |                              |
| 0.33                       | 14   | 115             | KBBW-22      | 9141        | 3.7 x 4.3 x 1.7              |                                 |      |                 |              |             |                              |



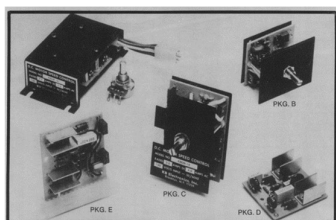
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# Crossover Guide

## KBDM SCR DC Drive, 120 to 230 V (OEM Only)

| KBDM SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBIC SCR Drive (Chassis) |      |                 |              |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                                               | Amps |                 |              |             |                              |
| 0.07                     | 0.76 | 120             | KBDM-11      | OEM#s Only  | Package Dependent            | 0.5                                              | 6    | 115             | KBIC-120     | 9429        | 4.3 x 3.6 x 1.3              |
| 0.25                     | 3    | 120             | KBDM-14      |             |                              |                                                  |      |                 |              |             |                              |
| 0.33                     | 4    | 120             | KBDM-16      |             |                              | 1                                                | 6    | 208/230         | KBIC-240     | 9428        |                              |
| 0.13                     | 0.75 | 240             | KBDM-21      |             |                              |                                                  |      |                 |              |             |                              |
| 0.5                      | 3    | 240             | KBDM-24      |             |                              |                                                  |      |                 |              |             |                              |
| 0.75                     | 4    | 240             | KBDM-26      |             |                              |                                                  |      |                 |              |             |                              |



### Differences to Note:

- The KBIC drive series offers better filtering and enhanced motor protection.
- The KBIC drive series requires selecting the appropriate PHR (Plug-in HP resistor) based on the motor size.



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# Crossover Guide

## KBVC SCR DC Drive, 120 to 230 V (OEM Only)

| KBVC SCR Drive (Chassis) |      |                 |              |             |                              | Crossover Suggestion<br>KBIC SCR Drive (Chassis) |      |                 |              |             |                              |
|--------------------------|------|-----------------|--------------|-------------|------------------------------|--------------------------------------------------|------|-----------------|--------------|-------------|------------------------------|
| Maximum HP               |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) | Maximum HP                                       |      | AC Line Voltage | Model Number | Item Number | Dimensions<br>H x W x D (in) |
| HP                       | Amps |                 |              |             |                              | HP                                               | Amps |                 |              |             |                              |
| 0.33                     | 3    | 115             | KBVC-14      | H9053       | 2.75 x 2.75 x 1.70           | 0.5                                              | 6    | 115             | KBIC-120     | 9429        | 4.3 x 3.6 x 1.3              |
| 0.33                     | 3    | 115             | KBVC-14NS    | H9044A      | 2.75 x 2.75 x 1.70           |                                                  |      |                 |              |             |                              |
| 0.75                     | 3    | 208 / 230       | KBVC-24      | H9057       | 2.75 x 2.75 x 1.70           | 1                                                | 6    | 208/230         | KBIC-240     | 9428        |                              |
| 0.75                     | 3    | 208 / 230       | KBVC-24NS    | H9046A      | 2.75 x 2.75 x 1.70           |                                                  |      |                 |              |             |                              |



### Differences to Note:

- The KBVC is a TRIAC-based control equipped with a diode bridge.
- KBIC is a more advanced product, offering improved filtering and enhanced motor protection.
- KBIC includes a remote potentiometer that can replace the potentiometer mounted on the KBVC.
- Some versions of the KBVC feature an on/off switch integrated with the potentiometer. In such cases, Item #9114 is a potentiometer with an integrated switch that can be used as a replacement.