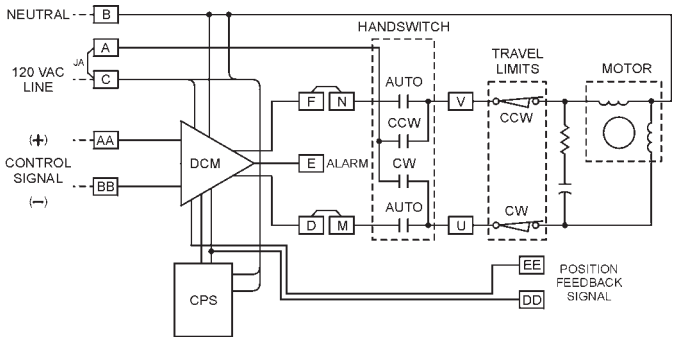
Control Options for Beck Group 11 and Group 14 Drives*

Modulating Option 9

Digital Position Control with Contactless Position Sensing

The Beck DCM positions the drive in proportion to an input current or voltage signal, and the CPS provides integral feedback for the DCM. A 4–20 mA position feedback signal is available for remote indication.

The DCM may be used to provide pre-determined positioning of the drive upon loss of input control signal.

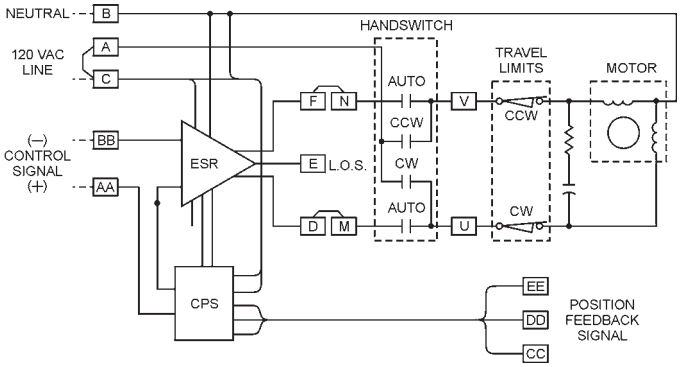


Modulating Option 8

Analog Position Control with Contactless Position Sensing

The Beck ESR-4 positions the drive in proportion to an input current or voltage signal, and the CPS-2 provides integral feedback for the ESR-4 and isolated feedback for remote position indication (also available without external feedback).

The ESR-4 may be used to provide pre-determined positioning of the drive upon loss of input control signal (see page 10).

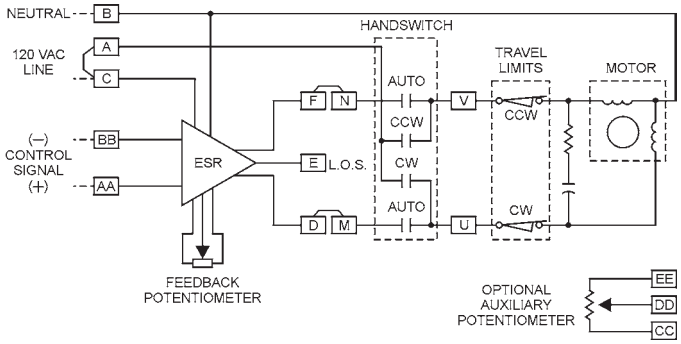


Modulating Option 7

Analog Position Control with Potentiometer Position Sensing

The Beck ESR-4 positions the drive in proportion to an input current or voltage signal. A film potentiometer is used in place of the CPS-2 for position sensing and internal feedback to the ESR-4.

An optional auxiliary potentiometer, requiring external power, may be added for remote position indication or control. The ESR-4 may be used to provide predetermined positioning of the drive upon loss of input control signal (see page 10).



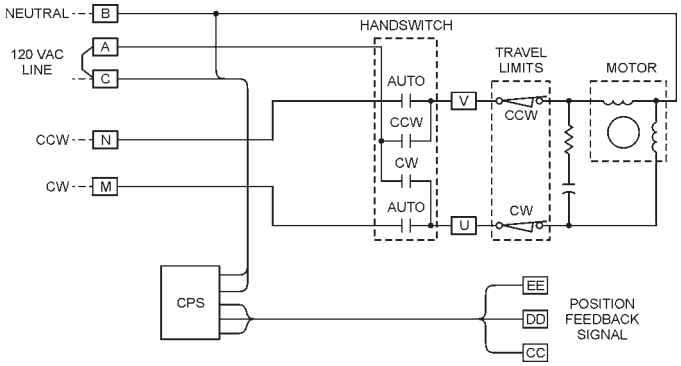
Modulating Option 6

Direct AC Control with Contactless Position Sensing

Control option 6 features clockwise / counterclockwise control from a remote automatic controller or manual switches.

The CPS-2 provides a feedback signal for remote position indication.

If the available 120 / 240 V ac control voltage is not able to supply enough current to operate a drive, a Relay Board must be added to the control compartment.

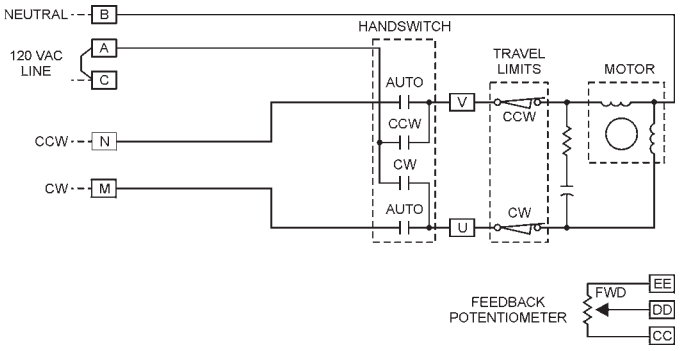


Modulating Option 5

Direct AC Control with Potentiometer Position Sensing

Actuated in clockwise or counterclockwise from a remote location or manual switches, this configuration includes a 1000 ohm film potentiometer for remote feedback. An optional auxiliary 1000 ohm potentiometer can be added as an additional remote position indication.

If the available 120 / 240 V ac control voltage is not able to supply enough current to operate a drive, a Relay Board must be added to the control compartment.



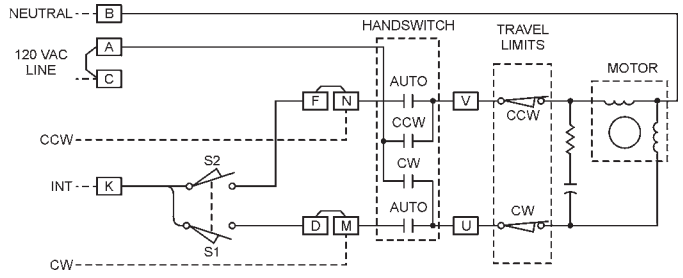
Multi-Position Option 4

Direct AC Control with Cam-Operated Switches to Stop Drive Travel

Option 4 incorporates adjustable cam-operated switches to stop the drive in 6 positions (two end-of-travel, four intermediate positions), or 3 positions (one intermediate position). 4-position and 5-position control can also be attained using a different number of switches.

Standard end-of-travel switches have extra contacts that can be used for external signaling or interlocking.

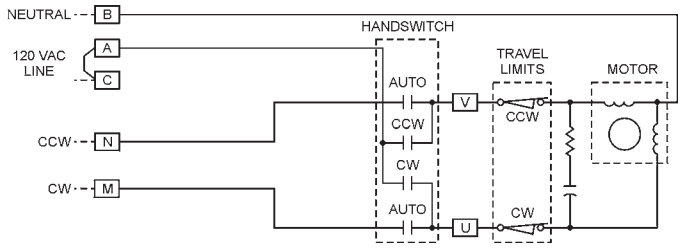
Configuration shown: BASIC 3-position.



Open / Close Option 3

Direct AC Control

For simple open / close operation, Option 3 includes two limit switches, which stop the drive at each end of travel and may also be used for external signaling.

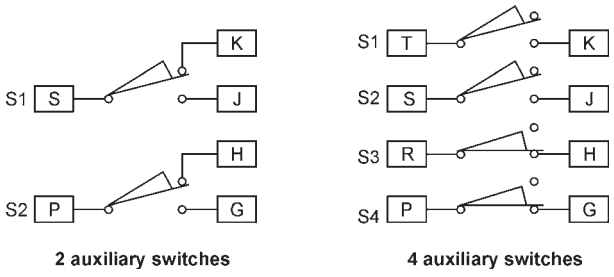


240 V ac Operation

All of the options described on this page and the previous page are available for 240 V ac operation instead of 120 V ac operation.

Auxiliary Switch Terminals

Auxiliary switches may be added for control or annunciation functions. See Table 2-2, page 13, for availability. Switches are rated at 6 A 120 V ac. They may be factory-set or field-adjusted to operate at any point in the drive's travel.



**NOTES: Regarding drive shaft travel direction for Group 14 drives: CCW = Extend and CW = Retract.*

Diagrams are functional—customer wiring may vary. Certified wiring diagrams can be provided for the drive you select.