"The Right Control
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SUBJECT: KBPC-240D DC DRIVE Modification for Sub-fractional Motors and Gear Motors

This technical explains how to modify the standard KBPC-240D DC Drive for sub-fractional HP motors.

Inside the KBPC-240D, on the right hand side of the Printed Circuit board, is the Current Sensing Resistor (R69). Underneath this resistor, are two pins which will accept a Plug-in Horsepower Resistor®. This resistor is provided in a hardware bag with each control. For applications that require using sub-fractional motors, carefully clip out the standard current sensing resistor, and install the .05 ohm Plug-in Horsepower Resistor (KB# 9839). Each of the current selection jumper values are now divided by 10. See the chart below for further explanations:

Current Limit Settings with .05 Ohm Plug-in Horsepower Resistor Installed

Original J4 Current Jumper Selection with R69 installed	New J4 Current Jumper Selection with .05 ohm resistor	New Current Limit Trimpot Range	New Current Limit Trimpot Factory Setting
10.0 Amps	1.0 Amps	0 - 2.0 Amps	1.50 Amps
7.5 Amps	0.75 Amps	0 - 1.5 Amps	1.13 Amps
5.0 Amps	0.5 Amps	0 - 1.0 Amps	0.75 Amps
2.5 Amps	0.25 Amps	0 - 0.5 Amps	0.38 Amps

The same modification can be used with the KBCC-240D chassis DC Drive (KB# 9947). The KBCC-240D is the printed circuit board from a KBPC-240D (enclosure removed) mounted on a 7" heat sink. This chassis DC drive includes the same motor burnout protection as the KBPC-240D DC Drive, as well as the 3 diagnostic indicator LED's. Please call your Applications Engineer or Regional Sales Manager if you need additional information.

Sincerely,

Richard Fritts
National Sales Manager