

COMMANDER SK 0.75 KW INVERTER SETTINGS FOR 0.75Kw 2 pole motor with 3.94:1 gearbox

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To access the various settings you must first press <M> once. The last parameter number worked on will appear on the left screen and the value will appear on the right screen. Normally this is parameter number 01 which is used to change the blade speed. Use the ↑ arrow keys to go to the next setting up or down. If you are at 01 and press Down Arrow it will go to Parameter 10. Going up from 01 will show Parameter 02. Holding the arrow key depressed causes it to move faster.

When you have selected the setting number you want to change, press <M> again and the right screen will blink on and off. This means you can use the arrow keys to change the value for that setting. When you have changed the value to what you want, press <M> again and the left screen will blink. You can either go to another setting to press <M> a second time and it will 'Exit'. Sometimes you have to press <M> three times to get out of the settings.

The Commander SK values to choose for the Diamond Mesh Maker Model 2E and 3SAE using a 2 pole motor, a 3.94:1 gearbox are as follows:

1. 0 (Zero) = Operating Speed - normally this is the only Parameter that will be changed. It reads in Hertz (Hz). 50 = 300 RPM. 71.2 = 430 RPM (the default), up to 110 Hz (max)
2. 110 (HZ) = Maximum Frequency and therefore maximum speed. Set to 110 = max for setting 1
3. 1.4 = Ramp up (speeding up) factor = 2 seconds per 100 HZ
4. 0.2 = Ramp Down factor
5. Pr = Type of controller used (in this case, a foot switch)
6. 3.50 Amps = Rated motor current
7. 1400 = Nominal motor speed
8. 240 (VAC) = Motor voltage (use 240 not 230)
9. 0.77 = Power factor (from motor name plate)
10. L1, L2 or L3 = L1 gives access to lower 10 settings only, L2 to 60, L3 to the data section
11. 0
12. DiS
13. Not used
14. Not used
15. 1.5 =
16. 4-2.0 =
17. OFF
18. 0 = Preset speed 1
19. 0 = Preset speed 2
20. 0 = Preset speed 3
21. 0 = Preset speed 4
22. Ld = Load is displayed (remote controls only)
23. Cd = Custom Display (in this case the RPM of the blade)
24. 0.25 = Gearbox ratio (3.94:1)
25. 0
26. Not used
27. 0
28. NO
29. NO = Should be set to EUR when resetting the unit to the Factory Default Settings
This wipes out all previous changes
30. 1
31. 1
32. ON = Voltage to frequency ration dependant on load current
33. 0
34. Dig = Digital output
35. N=0 = Digital output speed at zero.
36. Fr = Frequency display
37. 3 HZ = AC supply chopping rate
38. 0
39. 50 HZ = Rated frequency of Motor
40. AUTO = Number of poles on the motor

- 41. Ur1 = Stator resistance is measured each time the drive is enabled and run
- 42. 3.0 = Low frequency voltage boost.
- 43. 19.2 = Baud rate
- 44. 1 = Serial Comm address

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