

## The Application Note is pertinent to the AC Drives

# <u>A Replacement Solution from Horizon to</u> <u>Commander SK</u>

The Horizon AC drive was an adjustable frequency, adjustable voltage (VVI) ac motor controller. It was designed for single phase input power (115/230 vac) with a three phase output for 3-phase squirrel cage induction motors. Three models were available covering the range of ¼ to 1 Hp. The units were supplied in a Nema 1 enclosure (optional Nema 4/12 conversion kit). This drive had three basic functions: Start/stop switch, speed pot and an optional fwd/rev selector. The table below shows a cross reference to currently available Digital AC drives.

Horizon Model	Input Voltage	Output Amps	Commander SK	Input Voltage	Output Amps
2990-8000	120vac, 1ph	3.2	SKB1100075**	240vac, 1ph	4.0
2990-8002	240vac, 1ph	2.0	SKA1200037	240vac, 1ph	2.2
2990-8005	240vac, 1ph	3.6	SKA1200055	240vac, 1ph	3.0
			SKA1200075	240vac, 1ph	4.0

\*\* The output of the 120vac unit (SKB1100075) is 240vac, not 120vac as is the case for the 2990-8000



The Commander SK are fully digital PWM type, open loop vector ac motor controllers. Just as the Horizon, the drive has start/stop, fwd/rev and a "digital" speed pot on the front cover. In addition to the simple features provided with the Horizon, the Commander SK have many advanced features (PID loop, MOP function, Preset speeds, S-ramp and dc injection braking to mention a few) available including serial communications and field bus connectivity.

# Click on the image of the Commander SK drives above or the link below to obtain more information on the Commander SK

 $http://www.emersonct.com/download\_usa/literature/07 catalogpdfs/024-039-CommSK.pdf$ 

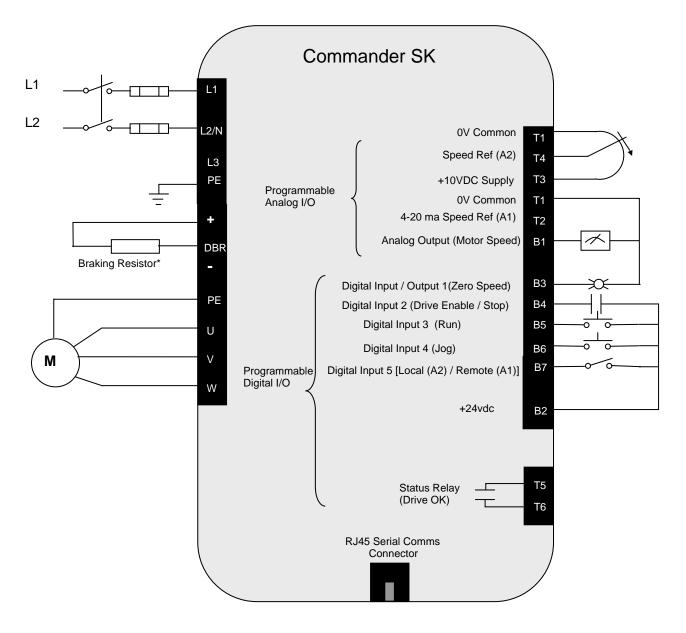


Commander SK sizes A and B

Please <u>click on links</u> below for additional information

General Specifications Ratings Dimensions Cable and Fuse Standards Literature Manuals Software Options/Software

### **Terminal Diagram**



#### Notes

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\* Thermal protection required.

\*\* Commander S Size A is single-phase input only.

For complete instructions, refer to the Commander SK User Guide.

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