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Operating the SVX9000 on a Single-phase Supply

Overview

The Series X9000 drive is designed for use on normal three-phase supplies. It is, however, possible to use it on single-phase supplies subject to certain limitations.

1. The motor must always be a three-phase motor; single-phase motors ***CANNOT*** be used.

2. The single-phase voltage must be the same magnitude as the three-phase voltage.

3. The drive must be sized per the table 1 below. Additional capacitance KITS should be added as required.

4. The input impedance must not be greater than 5%.

5. The single-phase input must be connected to input terminals L1 and L2. **Input terminals L2 and L3 should be connected together**. The motor is connected, as normal, to terminals U, V, and W.

6. The drive would normally trip on missing input phase. In order to avoid this, you must select single-phase. The phase supervision function must be disabled this is done by setting the Input Phase Supervision parameter to 0 (0=No response. This parameter in all applications except Basic. This parameter is item number 730.

Table 1

Motor Horse-power	230 Volt NEMA 1	Additional Cap Assembly for 230 Volt	480 Volt NEMA 1	Additional Cap Assembly for 480 Volt
0.5	SVX002A1-2A1B1	None Required	SVX001A1-4A1B1	SP41-KIT
0.75	SVX003A1-2A1B1	None Required	SVX001A1-4A1B1	SP41-KIT
1	SVX005A1-2A1B1	None Required	SVX002A1-4A1B1	SP41-KIT
2	SVX005A1-2A1B1	None Required	SVX003A1-4A1B1	SP41-KIT
3	SVX005A1-2A1B1	None Required	SVX005A1-4A1B1	SP41-KIT
5	SVX010A1-2A1B1	SP21-KIT	SVX007A1-4A1B1	SP41-KIT
7.5	SVX015A1-2A1B1	SP21-KIT	SVX015A1-4A1B1	SP42-KIT
10	SVX020A1-2A1N1	None Required	SVX015A1-4A1B1	SP42-KIT
15	SVX030A1-2A1N1	SP22-KIT	SVX025A1-4A1B1	SP43-KIT
20	SVX040A1-2A1N1	None Required	SVX030A1-4A1B1	SP43-KIT
25	SVX050A1-2A1N1	None Required	SVX040A1-4A1N1	SP43-KIT
30	SVX060A1-2A1N1	SP23-KIT	SVX050A1-4A1N1	SP43-KIT
40			SVX075A1-4A1N1	SP45-KIT
50			SVX075A1-4A1N1	SP45-KIT
60			SVX075A1-4A1N1	SP45-KIT