



## FEEDER TABLE

### FEEDER TABLE – SIGNA PROFILE III

- o CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- o RECOMMENDED FEEDER SIZES FROM DISTISTRIBUTION TRANSFORMER TO MAIN DISCONNECT.
- o THE GROUNDING CONDUCTOR WILL BE THE SAME SIZE AS THE FEEDER WIRE AND SHALL BE COPPER AND WILL RUN IN THE SAME CONDUIT AS THE FEEDERS FROM EQUIPMENT BACK TO THE ROOM POWER SOURCE GROUNDING POINT.
- o IF THE GENERAL ELECTRIC EQUIPMENT IS BEING FED BY A DELTA SECONDARY, IT IS RECOMMENDED THAT THE B PHASE ON THE SECONDARY BE CONNECTED TO GROUND TO PREVENT DAMAGE TO THE SYSTEM.
- o NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE INTEGRATED POWER SYSTEM CABINET.
- o FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	190-210 200	198-218 208	361-399 380	380-420 400	394-436 415	456-504 480
SIZE OF FEEDERS AND GROUND WIRES (AWG)						
50	6	6	10	10	10	10
100	6	6	10	10	10	10
150	6	6	10	10	10	10
200	4	4	10	10	10	10
250	4	4	10	10	10	10
300	3	3	8	8	10	10
350	2	3	8	8	8	10
400	2	2	8	8	8	10

REV. DATE 02/25/06

# POWER SPECIFICATIONS

## SIGNA PROFILE III

(REV. DATE 08/23/01)

**VOLTAGE**

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS.  
 RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 200 TO 480, 3 PHASE, 50 OR 60 Hz.

RECOMMENDED POWER SUPPLY: DELTA OR WYE WITH NO NEUTRAL CONNECTION TO THE SYSTEM.

MAXIMUM DAILY VOLTAGE VARIATION MUST FALL WITHIN ONE OF THE RANGES IN TABLE A.

TABLE A  
 ALLOWABLE INPUT VOLTAGES/  
 CURRENT DEMAND

NOMINAL VOLTAGE	ABSOLUTE RANGE	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MOMENTARY	CONTINUOUS	
**200	190-210	29	14	50-A
**208	198-218	28	14	50-A
380	361-399	15	8	25-A
400	380-420	14	7	25-A
415	394-436	14	7	25-A
480	456-504	12	6	25-A

MINIMUM OVERCURRENT PROTECTION FOR IPS RATING OF 10 KVA. (CALCULATIONS BASED UPON NOMINAL VOLTAGE)

\*\* A STEP UP TRANSFORMER IS REQUIRED FOR THESE VOLTAGES TO COMPLY WITH IEC REGULATIONS.

**PHASE-BALANCE.**

PHASE-TO-PHASE VOLTAGES MUST BE WITHIN 2 PERCENT OF THE LOWEST PHASE-TO-PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 1.8 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 75 MICROSECONDS AND FREQUENCY OF 10 TIMES PER HOUR.

VOLTAGE TRANSIENT OR IMPULSE ON THE INCOMING POWER MUST BE HELD TO A MINIMUM. TRANSIENTS CAUSED BY LIGHTNING, SURGES, LOAD SWITCHING, STATIC ELECTRICITY ETC. CAN CAUSE SCAN ABORTS OR, IN EXTREME INSTANCES, COMPONENT FAILURE IN THE COMPUTER SUBSYSTEM.

**POWER DEMAND**

MAXIMUM POWER DEMAND = 10 KVA. CONTINUOUS = 3 KVA

TABLE B  
 MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	PROFILE
kVa *	10
POWER FACTOR AT	0.9

\* DEMAND INCLUDES POWER FOR ENTIRE SYSTEM. LINE VOLTAGE REGULATION AT MAXIMUM POWER DEMAND MUST BE LESS THAN OR EQUAL TO 6 PERCENT.

**DISTRIBUTION TRANSFORMER**

FOR A SINGLE UNIT INSTALLATION, THE MINIMUM TRANSFORMER SIZE IS 14 KVA. GE DOES NOT RECOMMEND USING A REGULATION DEVICE.