POWER SPECIFICATIONS

CT HiSpeed Advantage

(REV. DATE 09/15/94)

VOLTAGE

PRIMARY SOURCE IS REQUIRED FOR ALL INSTALLATIONS. RANGE OF LINE VOLTAGES: NOMINAL LINE VOLTAGE OF 380 TO 480, 3 PHASE, 50 OR 60 Hz.

RECOMMENDED POWER SUPPLY: WYE–CONNECTED.

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	
380	350–410	169	152	150–A
400	368–432	160	144	150–A
420	386–454	153	137	150–A
440	405–475	146	131	150–A
460	423–497	139	126	150–A
480	**442–518**	**134**	**120**	**125–A**

NOTE: FOR LINE VOLTAGES INPUTS OTHER THAN 480–V NOMINAL, ISOLATION TRANSFORMER (CAT. NO. B7997T) IS A REQUIRED OPTION.

PHASE–BALANCE.

PHASE–TO–PHASE VOLTAGES MUST BE WITHIN +2 PERCENT OF THE LOWEST PHASE–TO–PHASE VOLTAGE. MAXIMUM ALLOWABLE TRANSIENT VOLTAGE EXCURSIONS ARE 2.5 PERCENT OF RATED LINE VOLTAGE AT A MAXIMUM DURATION OF 1 CYCLE 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 = 100 KVA.

TABLE B MAXIMUM MOMENTARY POWER DEMAND.

DEMAND	CT HiSpeed
kVa *	100
POWER FACTOR AT	0.85

* DEMAND INCLUDES POWER FOR ENTIRE CT 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 112.5 KVA. REGULATED TRANSFORMER IS NOT REQUIRED UNLESS VOLTAGE CHANGES EXCEED ±10% OVER A PERIOD OF 1 HOUR OR LONGER.

NOTE: THE CT SYSTEM MUST NOT BE POWERED IN A MULTIPLE INSTALLATION WHERE FILM CHANGERS ARE USED. FILM CHANGERS UTILIZE A LARGE NUMBER OF HIGH POWERED CLOSELY SPACED EXPOSURES WHICH MAY COINCIDE WITH THE CT SCAN.

FEEDER TABLE

FEEDER TABLE – CT HiSpeed Advantage

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANS. TO POWER DISTRIBUTION UNIT.
- THE GROUNDING CONDUCTOR ( ) WILL BE A 1/0 MINIMUM OR SAME SIZE AS THE POWER FEEDER WHICH EVER IS LARGER. THIS GROUND WILL RUN FROM THE EQUIPMENT BACK TO THE FACILITY POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL.
- 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.
- NEUTRAL MUST BE TERMINATED PRIOR TO OR INSIDE THE MAIN DISCONNECT PANEL AND NOT BROUGHT INTO THE POWER DISTRIBUTION UNIT.
- FOR A FULL SYSTEM UPS REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

RUN LENGTH IN FEET	POWER SUPPLY VOLTAGE					
	350–410 380	368–432 400	386–454 420	405–475 440	423–497 460	**442–518 480**
50	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
100	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
150	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
200	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
250	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
300	3/0 (3/0)	2/0 (2/0)	1/0 (1/0)	1/0 (1/0)	1/0 (1/0)	**1 (1/0)**
350	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	**1/0 (1/0)**
400	3/0 (3/0)	3/0 (3/0)	2/0 (2/0)	2/0 (2/0)	1/0 (1/0)	**1/0 (1/0)**

REV. DATE: 09/12/02