

POWER SPECIFICATIONS

BRIVO XR385/ DR-F SYSTEM

REV. DATE: 20.Mar.15

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

REQUIRED POWER SUPPLY: WYE DISTRIBUTION

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

TABLE A
 ALLOWABLE
 INPUT
 VOLTAGES/
 CURRENT
 DEMAND

NOMINAL VOLTAGE	NORMAL RANGE ±10 PERCENT	CURRENT (AMPS)		MINIMUM STANDARD OVERCURRENT PROTECTION
		MAX. MOMENTARY	CONTINUOUS	
380	342-418	106	7	60-A
400	360-440	101	6.7	60-A
440	396-484	92	6	50-A
480	432-528	84	5.5	50-A

ALL CALCULATIONS BASED UPON NOMINAL VOLTAGE

NOTE

LOW LINE CONDITIONS MAY INHIBIT SOME HIGH kVp TECHNIQUES. THE GENERATOR AUTOMATICALLY ESTABLISHES THESE INHIBITS BASED ON ACTUAL LINE CONDITIONS AND SYSTEM REGULATION.

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 5 CYCLES AND FREQUENCY OF 10 TIMES PER HOUR.

POWER DEMAND

CONTINUOUS POWER DEMAND =4.6 KVA. (MAX DEMAND = 70 KVA)

TABLE B
 MAXIMUM
 MOMENTARY
 POWER
 DEMAND.

DEMAND	VALUE
kVa *	70
POWER FACTOR AT	0.73
mA	630
kVp	80

* 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 112.5 KVA.

STANDARD DISCONNECTS

- E4502ST 80 AMP DISCONNECT
- E4502RS 110 AMP DISCONNECT
- E4502RT 150 AMP DISCONNECT
- E4502RP 90 AMP DISCONNECT WITH AUTO-RESTART
- E4502SA 110 AMP DISCONNECT WITH AUTO-RESTART
- E4502RY 125 AMP DISCONNECT WITH AUTO-RESTART



FEEDER TABLE

FEEDER TABLE BRIVO XR385/ DR-F

REV. DATE: 05.Mar.15

- CALCULATIONS BASED UPON NOMINAL VOLTAGE, WIRE SIZE IN AWG.
- RECOMMENDED FEEDER SIZES FROM DISTRIBUTION TRANSFORMER TO THE POWER CABINET
- NEUTRAL MUST BE TERMINATED INSIDE THE MAIN DISCONNECT PANEL AND NOT AT ANY GE CABINET.
- THE GROUNDING CONDUCTOR WILL RUN FROM THE EQUIPMENT BACK TO THE POWER SOURCE/MAIN GROUNDING POINT AND ALWAYS TRAVEL IN THE SAME CONDUIT WITH THE FEEDERS AND NEUTRAL. GROUND WIRES ARE OF THE SAME SIZE AS THE POWER FEEDER OR 8 AWG, WHICHEVER IS LARGER.
- * MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION.
- FOR A FULL SYSTEM UPS, REFER TO ELECTRICAL DETAILS FOR UPS FEEDER WIRES.

NOTE: POWER RUN FROM 'A' TO GENERATOR IN TABLE BASE MUST BE CLASS "K" FLEXIBLE SERVICE WIRE WITH THHW INSULATION OR EQUIVALENT WITH APPROPRIATE TERMINATION FOR STANDARD LUG TERMINATION.

RUN LENGTH IN FEET (METERS)	POWER SUPPLY VOLTAGE			
	342-418 380	360-440 400	396-484 440	432-528 480
50 (15)	* 4	* 4	* 4	* 4
100 (30)	4	* 4	* 4	* 4
150 (46)	3	3	4	4
200 (60)	2	2	3	4
250	1	1	2	3
300	1/0	1/0	1	2
350	2/0	2/0	1/0	1
400	3/0	2/0	1/0	1