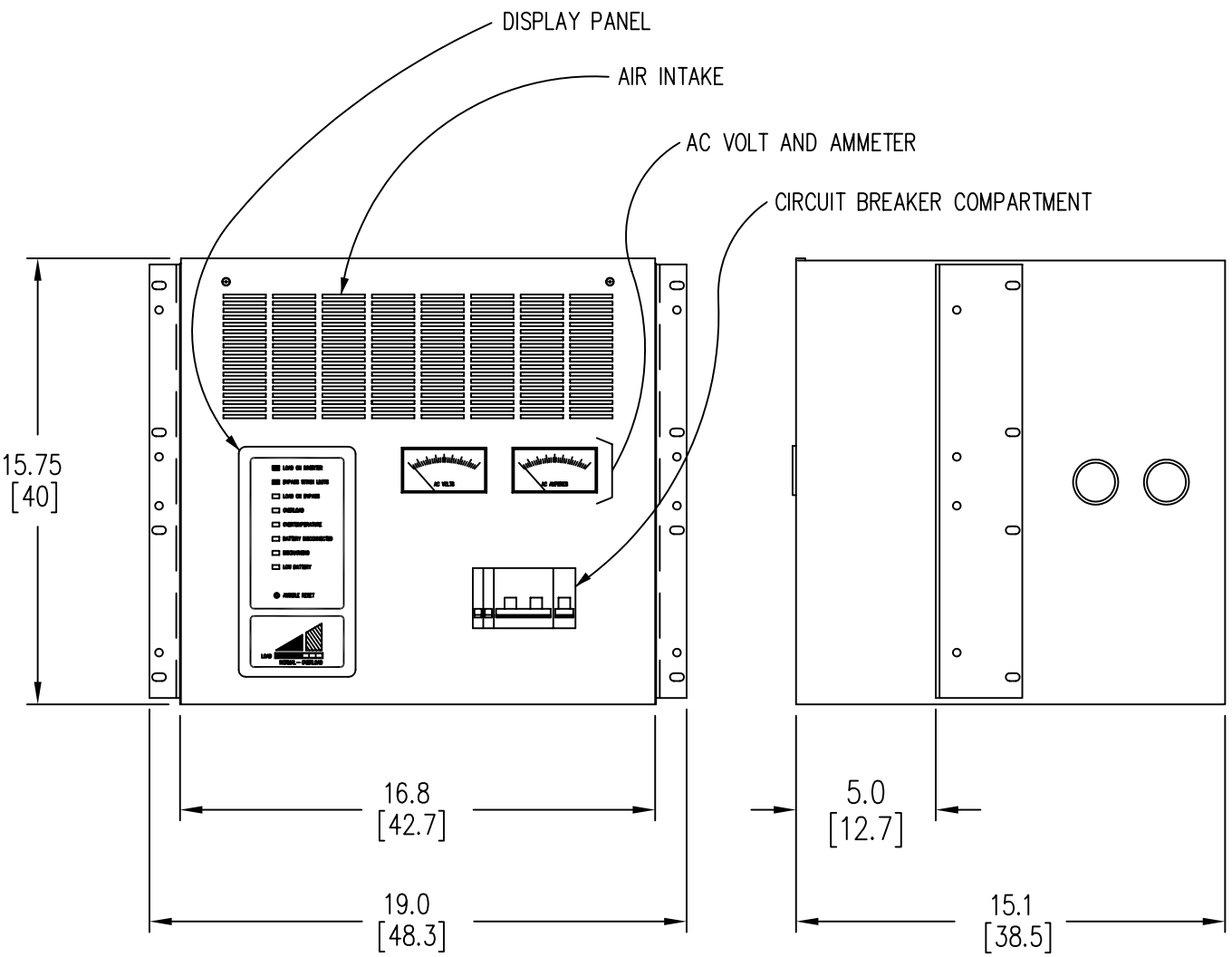


NOTE: REVERSE ANGLES FOR 23" RACK MOUNTING

PHYSICAL INSTALLATION

1 POSITION INVERTER ENCLOSURE IN 19" OR 23" RACK AND SECURE WITH 12-24 SCREWS AND HARDWARE (8 PLACES).

GENERAL NOTES:

1 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS WITHIN BRACKETS [ ] ARE IN CENTIMETERS.

2 WIRE SYSTEM AS INDICATED IN THE FOLLOWING PAGES.

MECHANICAL DATA

WEIGHT: 2KVA = 135 Lbs [61.3 kg]
3KVA = 135 Lbs [61.3 kg]

SIZE: SEE DRAWING AT LEFT
PAINT: SHERWIN WILLIAMS No. F63 A 33
COLOR: PROFILE GRAY

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
@ .8 LAGGING pf
2KVA = 1100 BTU/HR MAX.
3KVA = 1640 BTU/HR MAX.

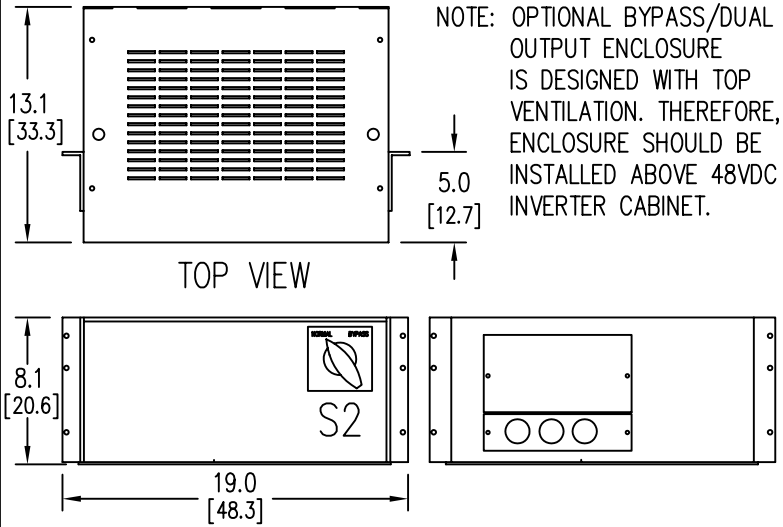
COOLING: FAN ASSISTED
OPERATING AMBIENT= 32°F TO +122°F
(0°C TO +50°C)

ENVIRONMENTAL DATA

NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778, DOES NOT PREVENT ENTRY OF DUST.
HUMIDITY RANGE: 0 TO 95%, NON-CONDENSING
ALTITUDE DERATING: NONE BELOW 7000 FT.
10%/1000 FT. ABOVE
AUDIBLE NOISE: 50dB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

INSTALLER CONNECTIONS
2, 3KVA 48VDC INVERTER SYSTEMS

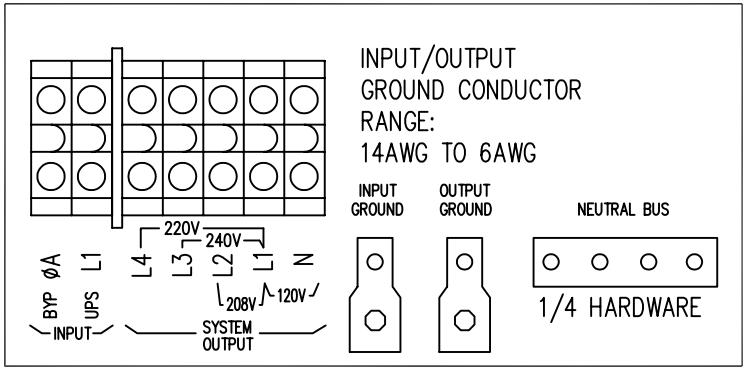
DESIGN	DATE	IC5196-030 IC5196-020
DRAWN WALLACE	DATE 9-2-93	
CHKD	DATE	
APPD R.J.MOROG	DATE 9-2-93	SHEET 1 OF 5 / ISSUE



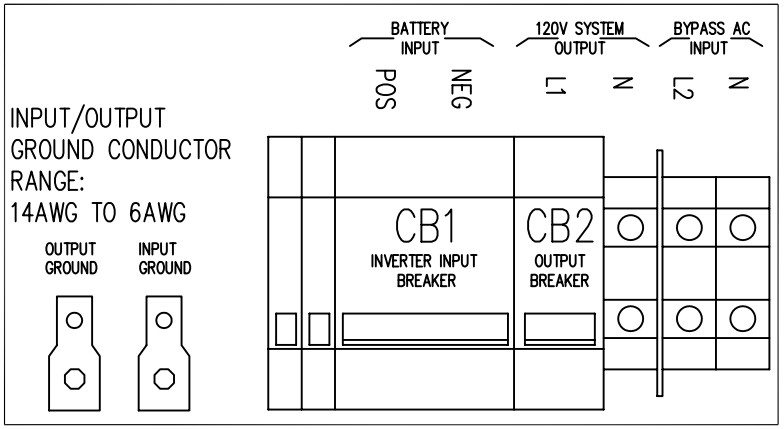
NOTE: OPTIONAL BYPASS/DUAL OUTPUT ENCLOSURE IS DESIGNED WITH TOP VENTILATION. THEREFORE, ENCLOSURE SHOULD BE INSTALLED ABOVE 48VDC INVERTER CABINET.

NOTE: DC INPUT WIRING ENTERS INVERTER THRU (1") CONDUIT KNOCKOUT ON LEFT SIDE OF ENCLOSURE. BYPASS AC INPUT AND AC OUTPUT WIRING ENTERS THRU (1") CONDUIT KNOCKOUTS ON RIGHT SIDE OF ENCLOSURE.

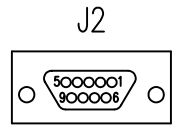
REAR (OPTIONAL BYPASS/DUAL OUTPUT ENCLOSURE)



LOWER RIGHT, FRONT (INVERTER)



RIGHT, REAR (INVERTER)



BYPASS AC INPUT	CONNECT TO
120V	L2 & N

INVERTER SYSTEM OUTPUT	CONNECT TO
120V	L1 & N
DUAL OUTPUT ENCLOSURE	**CONNECT TO**
120/208V	L1 & N/L1 & L2
120/240V	L1 & N/L1 & L3
120/220V	L1 & N/L1 & L4

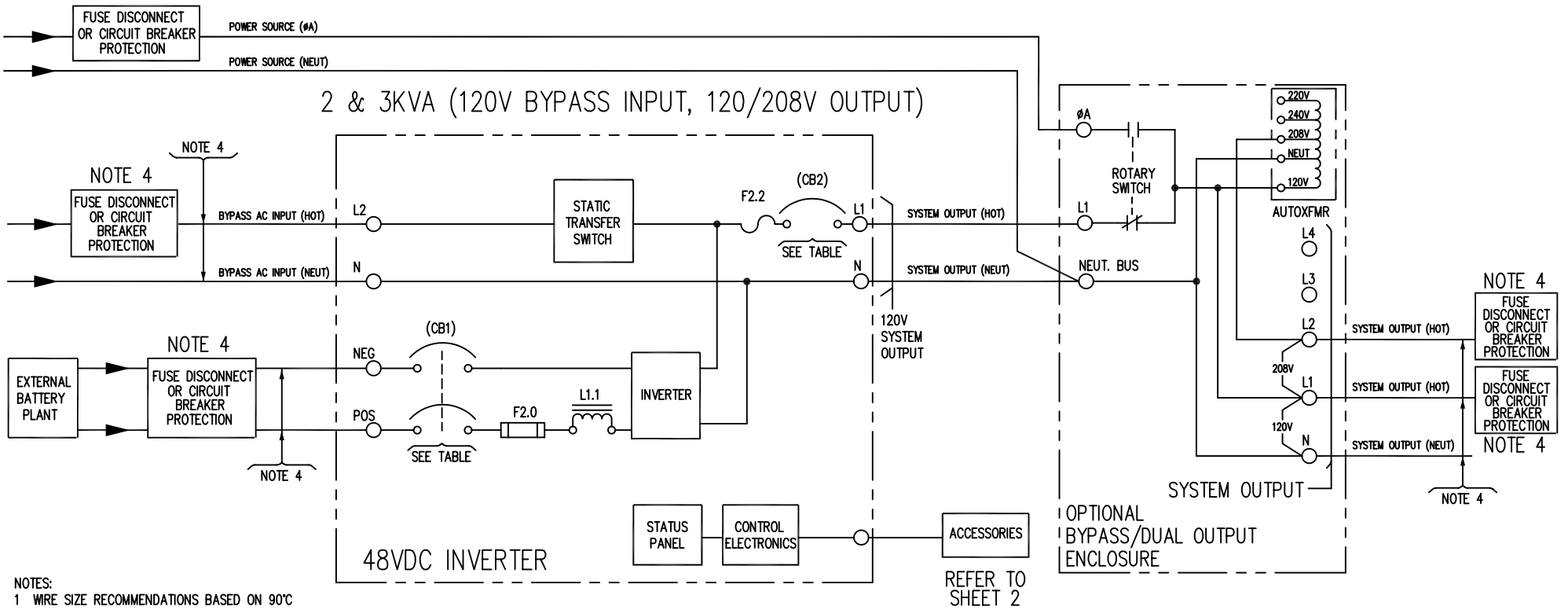
TABLE 1

(J2) PIN No.	ALARM
5	COMMON
6	ON BYPASS (N.O.)
7	LOW BATTERY (N.O.)
8	GEN. ALARM (N.O.)
9	UTILITY FAIL (N.O.)

NOTES:
1 NOT TO EXCEED CLASS 2 LIMITATIONS. REFER TO N.E.C. ARTICLE 725-31, TABLES (a) & (b).

RACK MOUNT
INSTALLER CONNECTIONS

IC5196-030
IC5196-020



NOTES:

1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.

2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.

3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.

4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.

5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

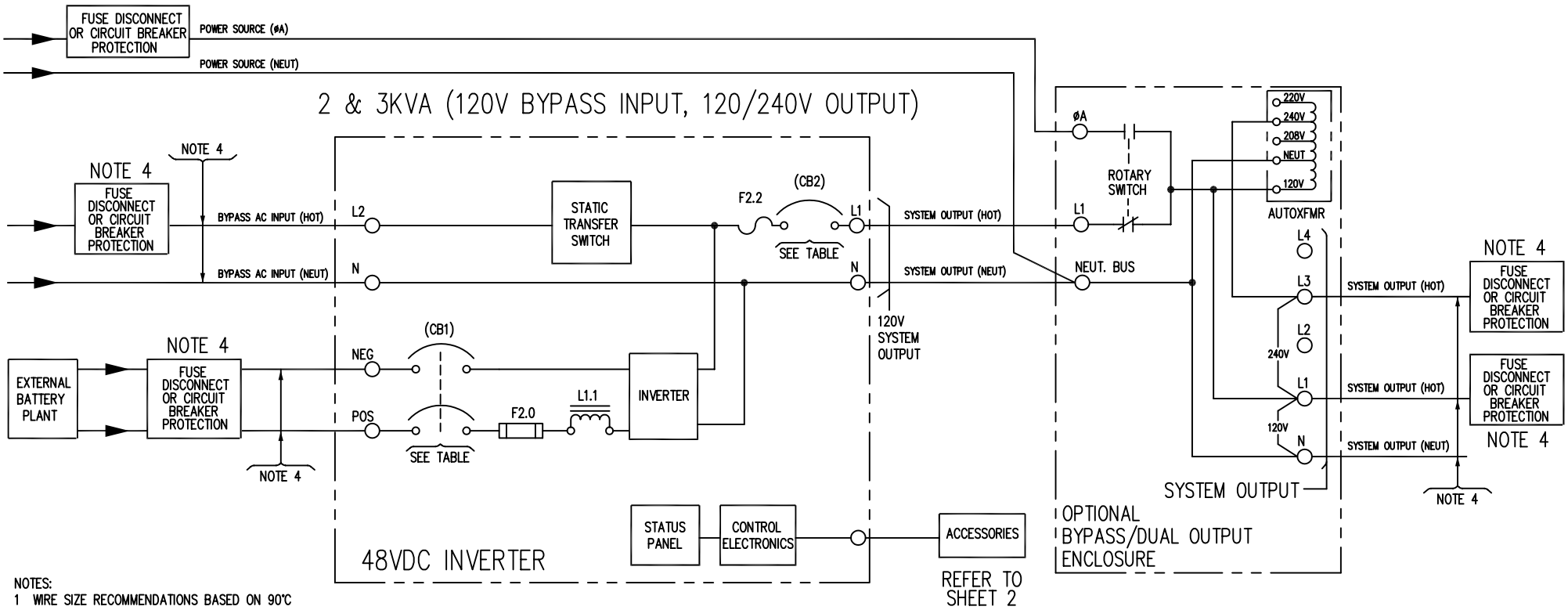
SIZE	SPEC. No.	120/208V ENCLOSURE OUTPUT TERM. No. (L1, L2, N)						
		OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120/208V	16.6/9.6A	12-2 AWG	35 IN/LB	10/12GA	10/12GA.	20/15A
3KVA	5196-030	120/208V	25/14.5	12-2 AWG	35 IN/LB	8 GA	10 GA.	35/20A

SIZE	SPEC. No.	BYPASS AC INPUT TERM. No. (L2, N)							BATTERY LEAD CB1 TERM. (POS.,NEG.)							SYSTEM OUTPUT CB2 TERM. (L1), TERM. No. (N)								
		AC INPUT	MAX. INPUT CURRENT	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB1) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	(CB2) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120	16.6 AMPS	12-2 AWG	35 IN/LB	10 GA	20A	10 GA.	50A	48VDC	5,000	12-2 AWG	35 IN/LB	6 GA	50A	120V	16.6 AMPS	20A	5,000	12-2 AWG	35 IN/LB	10 GA	10 GA.	20 AMPS
3KVA	5196-030	120	25 AMPS	12-2 AWG	35 IN/LB	8 GA	35A	10 GA.	80A	48VDC	10,000	12-2 AWG	35 IN/LB	4 GA	80A	120V	25 AMPS	32A	10,000	12-2 AWG	35 IN/LB	8 GA	10 GA.	35 AMPS

120V BYPASS INPUT
120/208V OUTPUT
INSTALLER CONNECTIONS
2, 3KVA SYSTEMS

IC5196-030
IC5196-020

ISSUE



NOTES:

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2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.

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5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

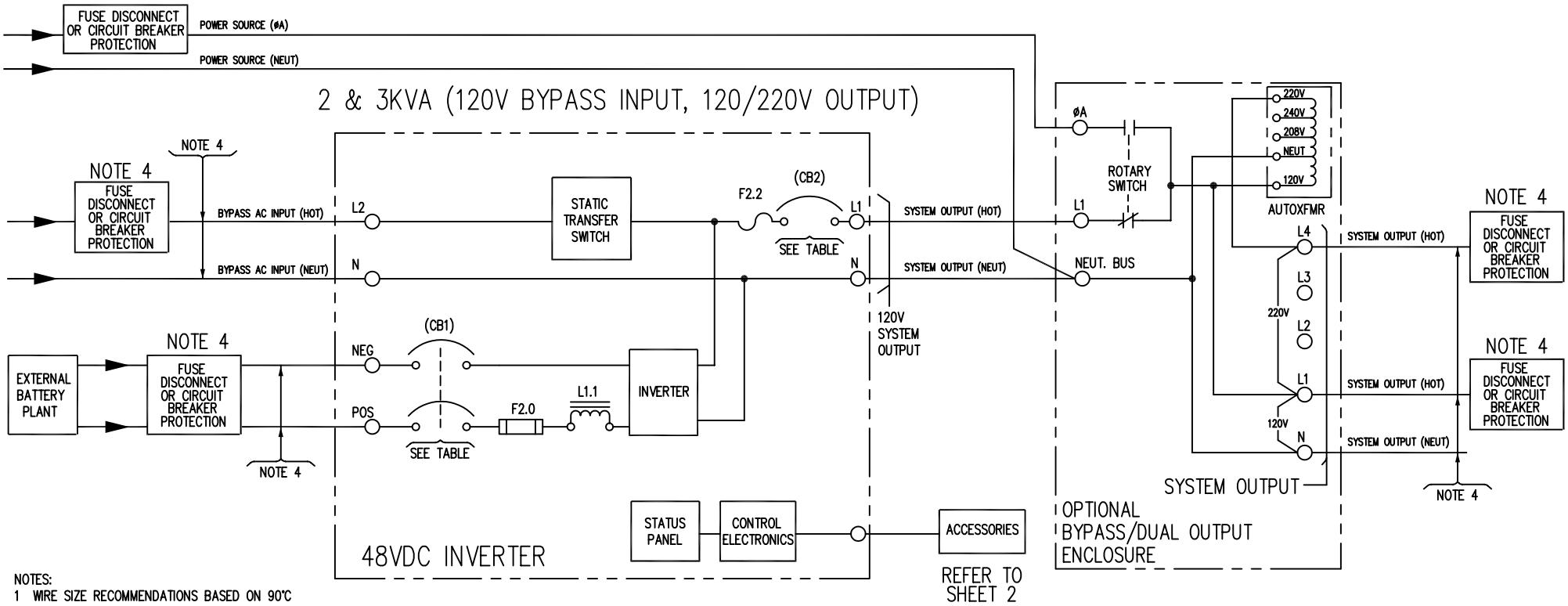
SIZE	SPEC. No.	120/240V ENCLOSURE OUTPUT TERM. No. (L1, L3, N)						
		OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120/240V	16.6/8.3A	12-2 AWG	35 IN/LB	12 GA	12 GA.	20/15A
3KVA	5196-030	120/240V	25/12.5	12-2 AWG	35 IN/LB	8 GA	10 GA.	35/20A

SIZE	SPEC. No.	BYPASS AC INPUT TERM. No. (L2, N)							BATTERY LEAD CB1 TERM. (POS.,NEG.)							SYSTEM OUTPUT CB2 TERM. (L1), TERM. No. (N)								
		AC INPUT	MAX. INPUT CURRENT	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB1) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	(CB2) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120	16.6 AMPS	12-2 AWG	35 IN/LB	10 GA	20A	10 GA.	50A	48VDC	5,000	12-2 AWG	35 IN/LB	6 GA	50A	120V	16.6 AMPS	20A	5,000	12-2 AWG	35 IN/LB	10 GA	10 GA.	20 AMPS
3KVA	5196-030	120	25 AMPS	12-2 AWG	35 IN/LB	8 GA	35A	10 GA.	80A	48VDC	10,000	12-2 AWG	35 IN/LB	4 GA	80A	120V	25 AMPS	32A	10,000	12-2 AWG	35 IN/LB	8 GA	10 GA.	35 AMPS

120V BYPASS INPUT
120/240V OUTPUT
INSTALLER CONNECTIONS
2, 3KVA SYSTEMS

IC5196-030
IC5196-020

ISSUE



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5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE	SPEC. No.	120/220V ENCLOSURE OUTPUT TERM. No. (L1, L4, N)						
		OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120/220V	16.6/9	12-2 AWG	35 IN/LB	12 GA	12 GA.	20/15A
3KVA	5196-030	120/220V	25/13.6	12-2 AWG	35 IN/LB	8 GA	10 GA.	35/20A

SIZE	SPEC. No.	BYPASS AC INPUT TERM. No. (L2, N)							BATTERY LEAD CB1 TERM. (POS.,NEG.)							SYSTEM OUTPUT CB2 TERM. (L1), TERM. No. (N)								
		AC INPUT	MAX. INPUT CURRENT	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB1) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	(CB2) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2KVA	5196-020	120	16.6 AMPS	12-2 AWG	35 IN/LB	10 GA	20A	10 GA.	50A	48VDC	5,000	12-2 AWG	35 IN/LB	6 GA	50A	120V	16.6 AMPS	20A	5,000	12-2 AWG	35 IN/LB	10 GA	10 GA.	20 AMPS
3KVA	5196-030	120	25 AMPS	12-2 AWG	35 IN/LB	8 GA	35A	10 GA.	80A	48VDC	10,000	12-2 AWG	35 IN/LB	4 GA	80A	120V	25 AMPS	32A	10,000	12-2 AWG	35 IN/LB	8 GA	10 GA.	35 AMPS

120V BYPASS INPUT
120/220V OUTPUT
INSTALLER CONNECTIONS
2, 3KVA SYSTEMS

IC5196-030
IC5196-020

ISSUE