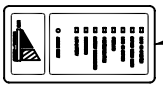


DISPLAY PANEL



NOTE 3

NOTE 3

PHYSICAL INSTALLATION

- 1 POSITION SYSTEM IN FINAL LOCATION AND INSTALL LOAD LEVELERS BY SCREWING INTO THREADED INSERTS LOCATED ON BOTTOM NEAR EACH CASTER; THEN TURN DOWN BOLTS TO STABILIZE.
- 2 CONNECT CONDUITS TO GLAND PLATE AND WIRE SYSTEM AS INDICATED IN THE FOLLOWING PAGES.
- 3 PROVIDE 36 INCHES OF SERVICE CLEARANCE ON EACH SIDE AND 12 INCHES AT THE REAR OF THE UPS. LOCATIONS NOT PERMITTING THE REQUIRED CLEARANCE SHOULD BE INSTALLED USING LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

GENERAL NOTES:

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

MECHANICAL DATA

WEIGHT: 10KW = 1200 LBS [540 kg]
15KW = 1200 LBS [540 kg]

SIZE: SEE DRAWING AT LEFT
PAINT: SHERWIN WILLIAMS PT. No. F63A10317
COLOR: LIGHT GRAY

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
10KW = 5.25K BTU/HR MAX.
15KW = 7.7K BTU/HR MAX.

COOLING: FAN ASSISTED
OPERATING AMBIENT = 32F TO +104F
(0C TO +40C)

FOR MAXIMUM BATTERY LIFE, BATTERY MANUFACTURERS RECOMMEND AN OPERATING TEMPERATURE OF 77F (25C).

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.

8	7-94	ZONE 4 APPROVAL ADD 1" TO HEIGHT
7	7-93	ADD METRIC INFO
6	12-92	REVISE AND ADDED SH. 4 THRU 8
5	11-16-92	ADDED 208V BYPASS INPUT
4	8-14-92	NOTE 5, SH.3 NOM. VOLT.(CB2)
3	4-6-92	MISC. CHG'S SH. 1 & 3
2	1-15-92	SH.3, NEUT- CB3 REVISED

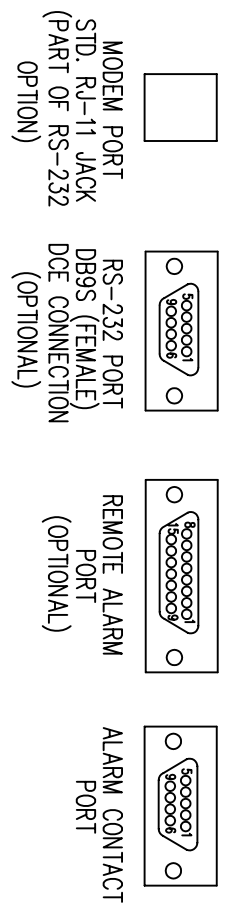
ISS	DATE	CHG. SLIP No.
DESIGN	DATE	
DRAWN	DATE	
CHECKED	DATE	
APP'D	DATE	

INSTALLER CONNECTIONS
(12.5KVA, 10KW & 18.75KVA, 15KW
3Ø INPUT SYSTEMS)

IC5196-715
IC5196-710

SHEET 1 OF 8

BACK OF SYSTEM
INTERNAL BYPASS SWITCH (OPTIONAL)



NOTE 1

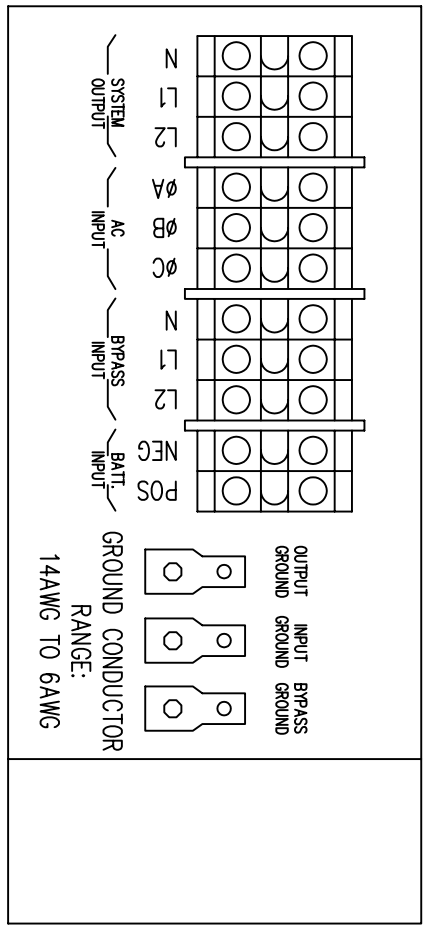
(J2) PIN No.	ALARM
5	COMMON
6	ON BYPASS (N.O.)
7	LOW BATTERY (N.O.)
8	GEN. ALARM (N.O.)
9	UTILITY FAIL (N.O.)

AIR EXHAUST VENTS
PROVIDE MINIMUM 12" SPACE AT REAR OF UPS.

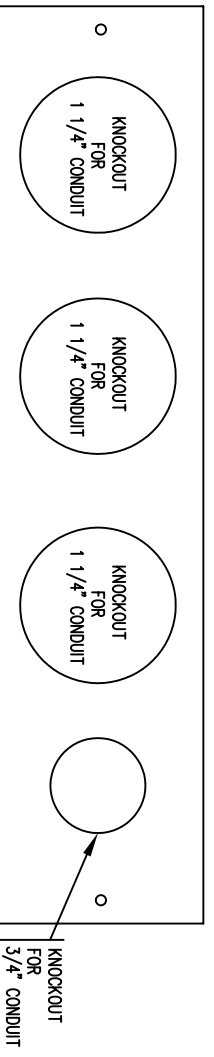
COVER PLATE
DESIGNED FOR
1) 3/4" CONDUIT
3) 1-1/4" CONDUIT

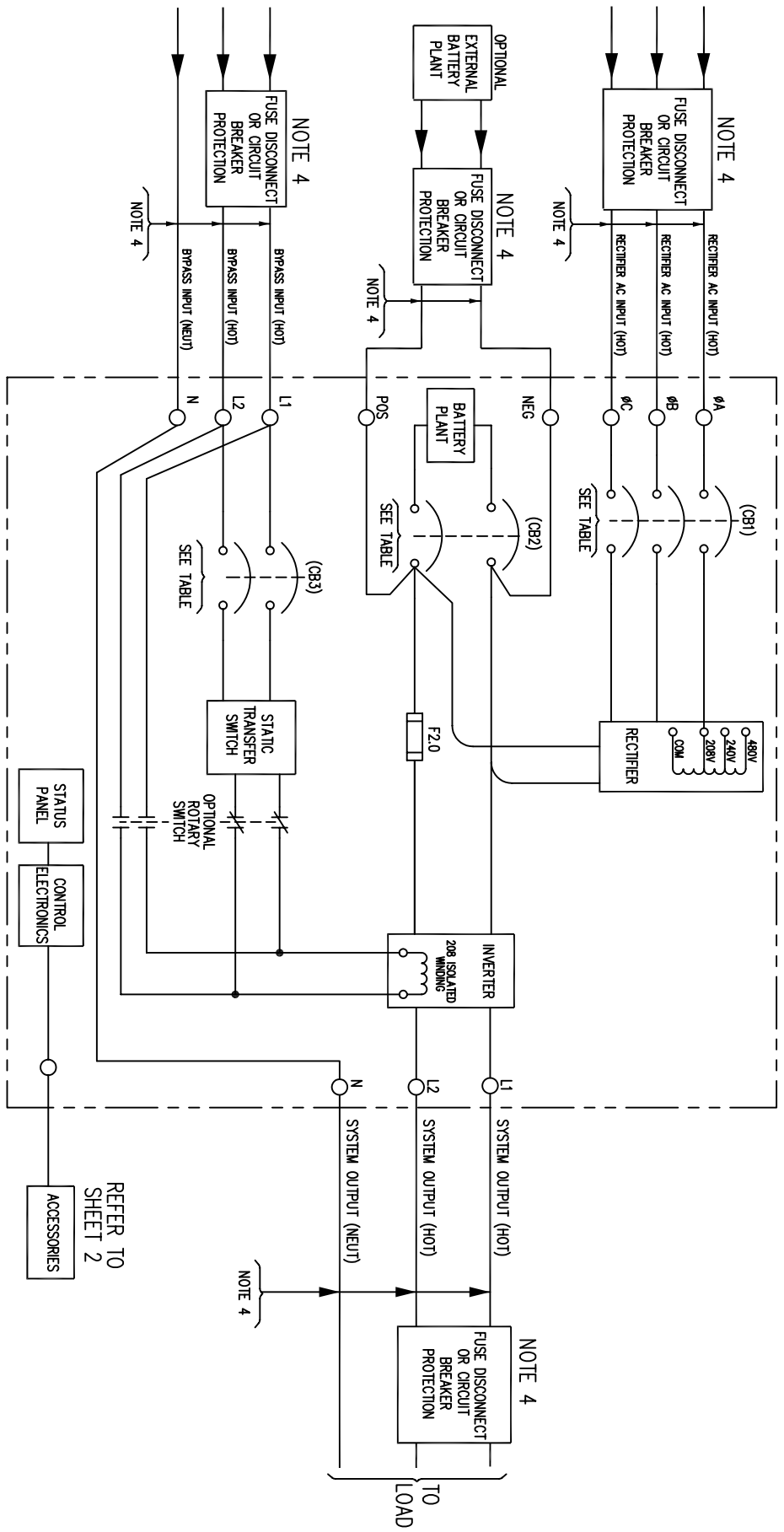
GLAND PLATE
BOTTOM ENTRY
DESIGNED FOR
1) 3/4" CONDUIT
3) 1-1/4" CONDUIT

AC INPUT VOLTAGE	CONNECT TO	BYPASS INPUT VOLTAGE	CONNECT TO	SYSTEM OUTPUT	CONNECT TO
208V	ØA, ØB, ØC	208V/W NEUT	L1 & L2 (N NEUT.)	120/208V	L1 & L2 (N NEUT.)
240V	ØA, ØB, ØC	120/240V	L1 & L2 (N NEUT.)	120/240V	L1 & L2 (N NEUT.)
480V	ØA, ØB, ØC				



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



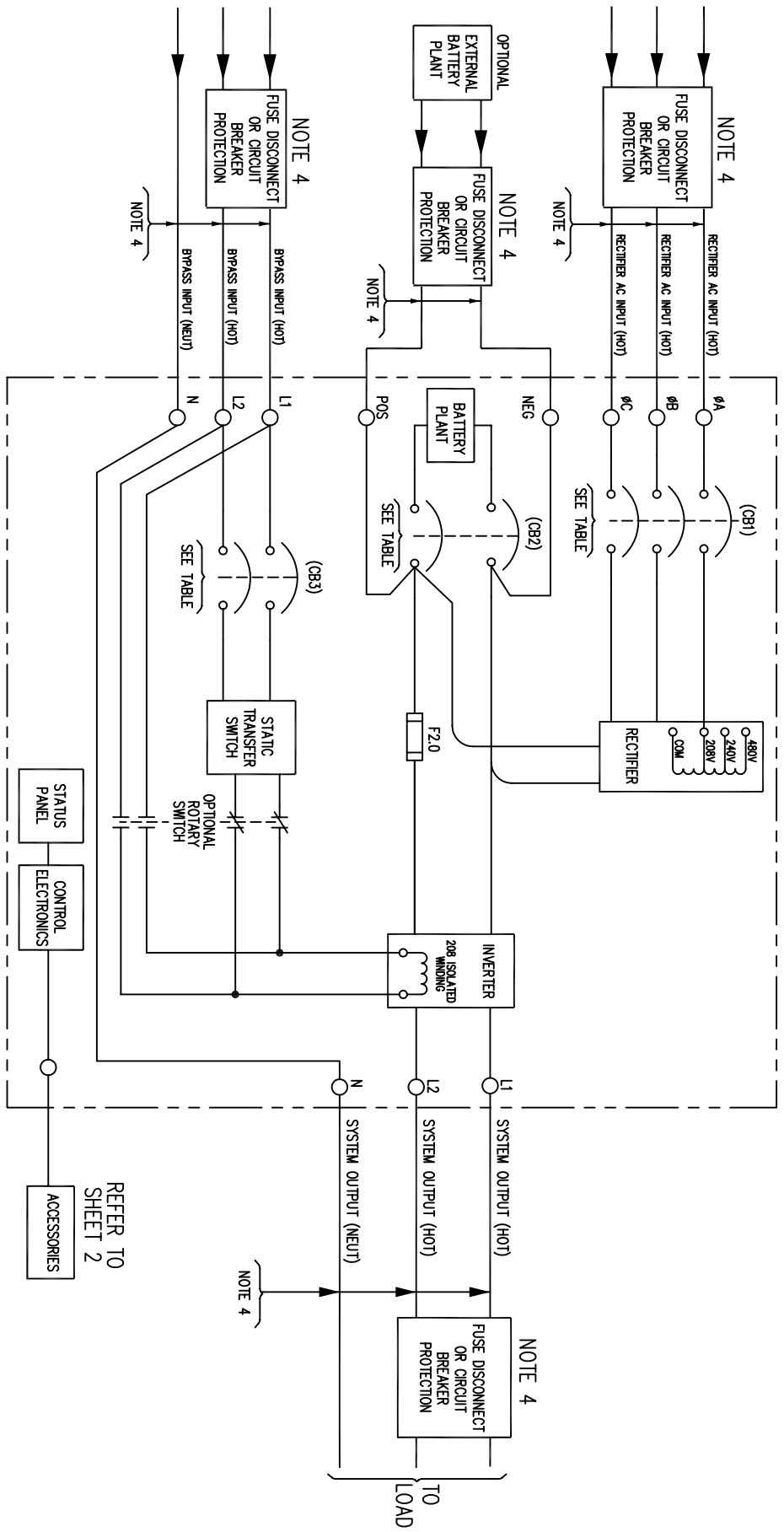


SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT										
	TERM. No. (φA, φB, φC)	TERM. No. (L1, L2 & N)	TERM. No. (POS, NEG)	TERM. No. (L1, N, L2)	TERM. No. (L1, N, L2)	MAX. INPUT CURRENT	A.I.C. RATING	A.I.C. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GND. SIZE	MAX. INPUT CURRENT	A.I.C. RATING	A.I.C. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GND. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GND. SIZE
12.5KVA	208	59	70A	10,000	8-1/0 AWG 35 IN/LB	46A	80A	86A	80A	10,000	8-1/0 AWG 35 IN/LB	66A	70A	50A	360VDC	10,000	8-1/0 AWG 29 IN/LB	86A	50A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB	2 GA	8 GA	8 GA	125A/60A
18.75KVA	208	80	100A	10,000	8-1/0 AWG 35 IN/LB	56A	100A	100A	100A	10,000	8-1/0 AWG 40 IN/LB	26A	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	36A	100A	120/208V	125/72	8-1/0 AWG 40 IN/LB	1/0	8 GA	8 GA	160A/90A

- 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.

REFER TO SHEET 2

INSTALLER CONNECTIONS	208V INPUT	120/208V OUTPUT
12.5KVA, 10KW 3φ INPUT	18.75KVA, 15KW 3φ INPUT	1C5196-715
1C5196-710		ISSUE

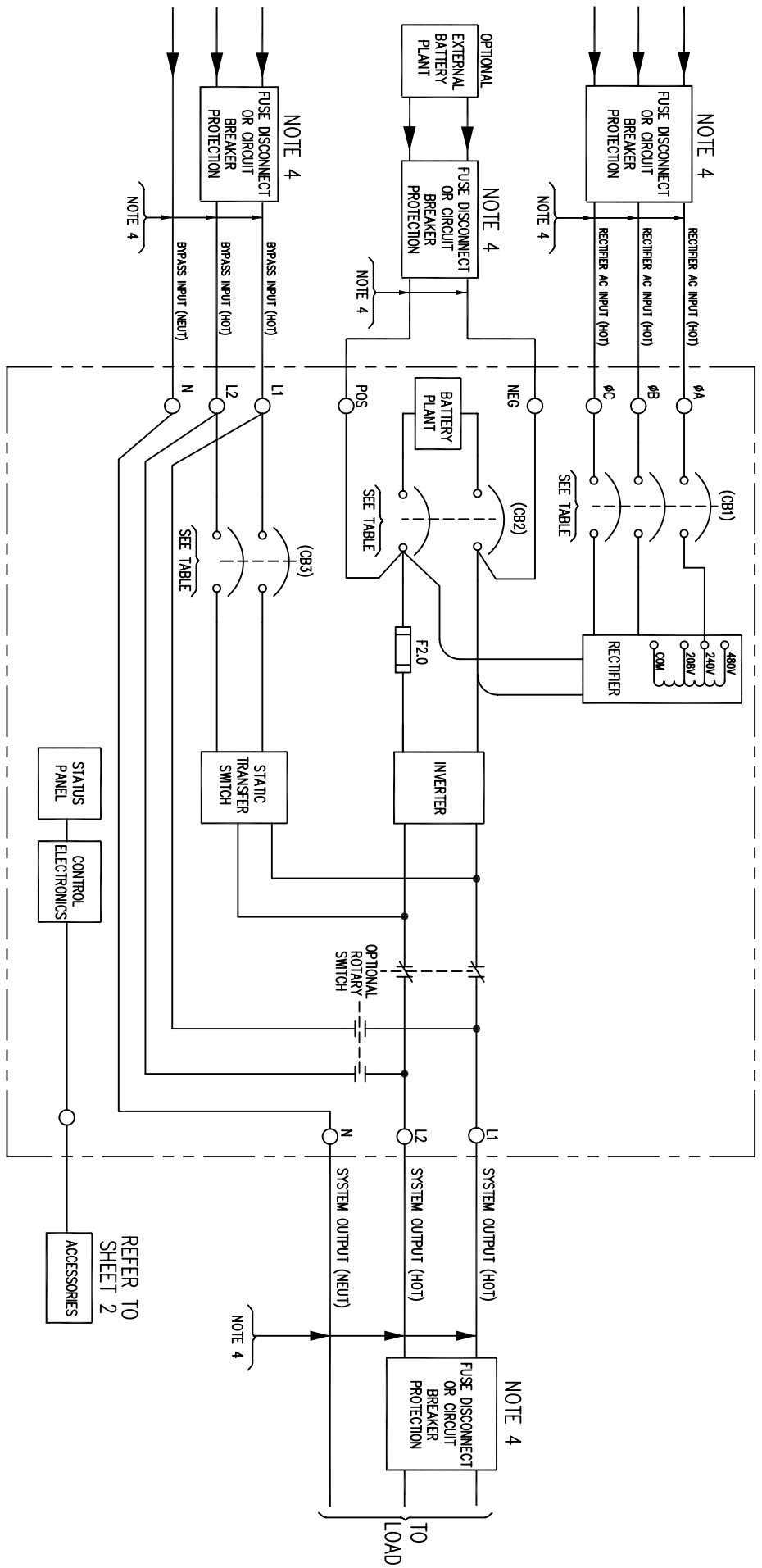


SPEC. No.	SIZE	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT										
		TERM. No. (ØA, ØB, ØC)	TERM. No. (L1, L2 & N)	TERM. No. (POS, NEG.)	TERM. No. (L1, L2)	TERM. No. (L1, L2)	MAX. INPUT CURRENT	A.I.C. RATING	TERML. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	A.I.C. RATING	TERML. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	NOMINAL VOLTAGE	A.I.C. RATING	TERML. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERML. CAPACITY	TORQUE
12.5KVA	5196-710	208	59 AMPS	70A	10,000	8-1/0 AWG 35 IN/LB	46A	80A	86A	80A	10,000	8-1/0 AWG 35 IN/LB	66A	70A	50A	360VDC	10,000	8-1/0 AWG 25 IN/LB	86A	50A	120/240V	83.3/42	8-1/0 AWG 35 IN/LB	2 GA	8 GA	125A/60A	
18.75KVA	5196-715	208	80 AMPS	100A	10,000	8-1/0 AWG 35 IN/LB	56A	100A	125A	100A	10,000	8-1/0 AWG 40 IN/LB	26A	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	3 GA	100A	120/240V	125/62.5	8-1/0 AWG 40 IN/LB	1/0	8 GA	160A/80A	

- 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.

INSTALLER CONNECTIONS	208V INPUT	120/240V OUTPUT
12.5KVA, 10KW 3Ø INPUT	18.75KVA, 15KW 3Ø INPUT	IC5196-715
		IC5196-710
SHEET 4 OF 8		ISSUE

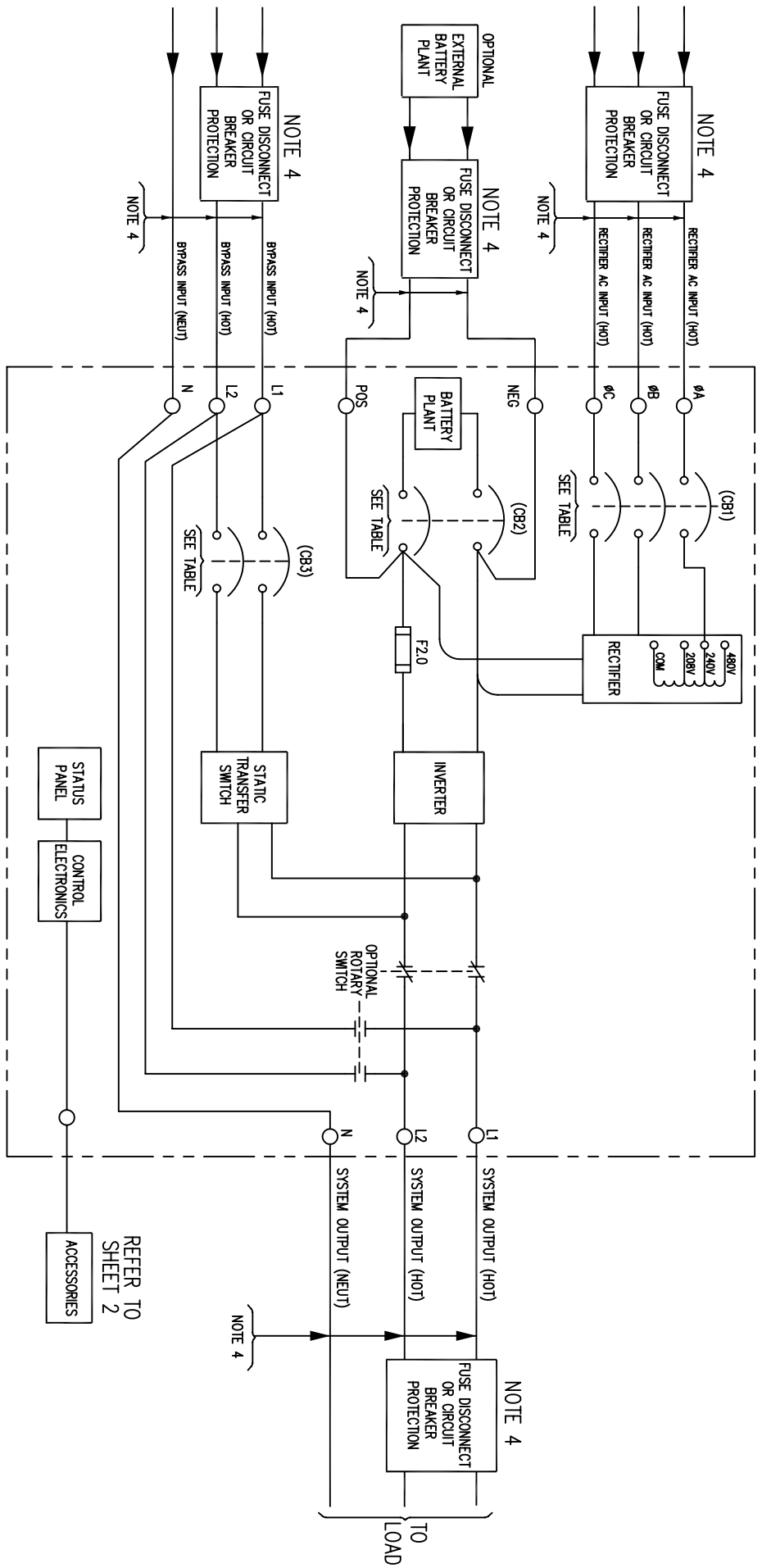
REFER TO SHEET 2 ACCESSORIES



SPEC. No.	AC INPUT				BYPASS INPUT				BATTERY LEAD				SYSTEM OUTPUT														
	TERM. No. (φA,φB,φC)	TERM. No. (L1, L2 & N)	TERM. No. (POS, NEG.)	TERM. No. (L1, L2)	MAX. INPUT CURRENT	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING						
12SKVA	5196-710	240	52	AMPS	70A	10,000	8-1/0 AWG 35 IN/LB	4GA	80A	8GA	80A	10,000	8-1/0 AWG 35 IN/LB	6GA	70A	50A	360VDC	10,000	8-1/0 AWG 25 IN/LB	8GA	50A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB	2 GA	8 GA	125A/80A
18.75KVA	5196-715	240	70	AMPS	100A	10,000	8-1/0 AWG 35 IN/LB	3GA	100A	6GA	100A	10,000	8-1/0 AWG 40 IN/LB	25A	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	3GA	100A	120/208V	125/72	8-1/0 AWG 40 IN/LB	1/0	8 GA	160A/90A

- 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.

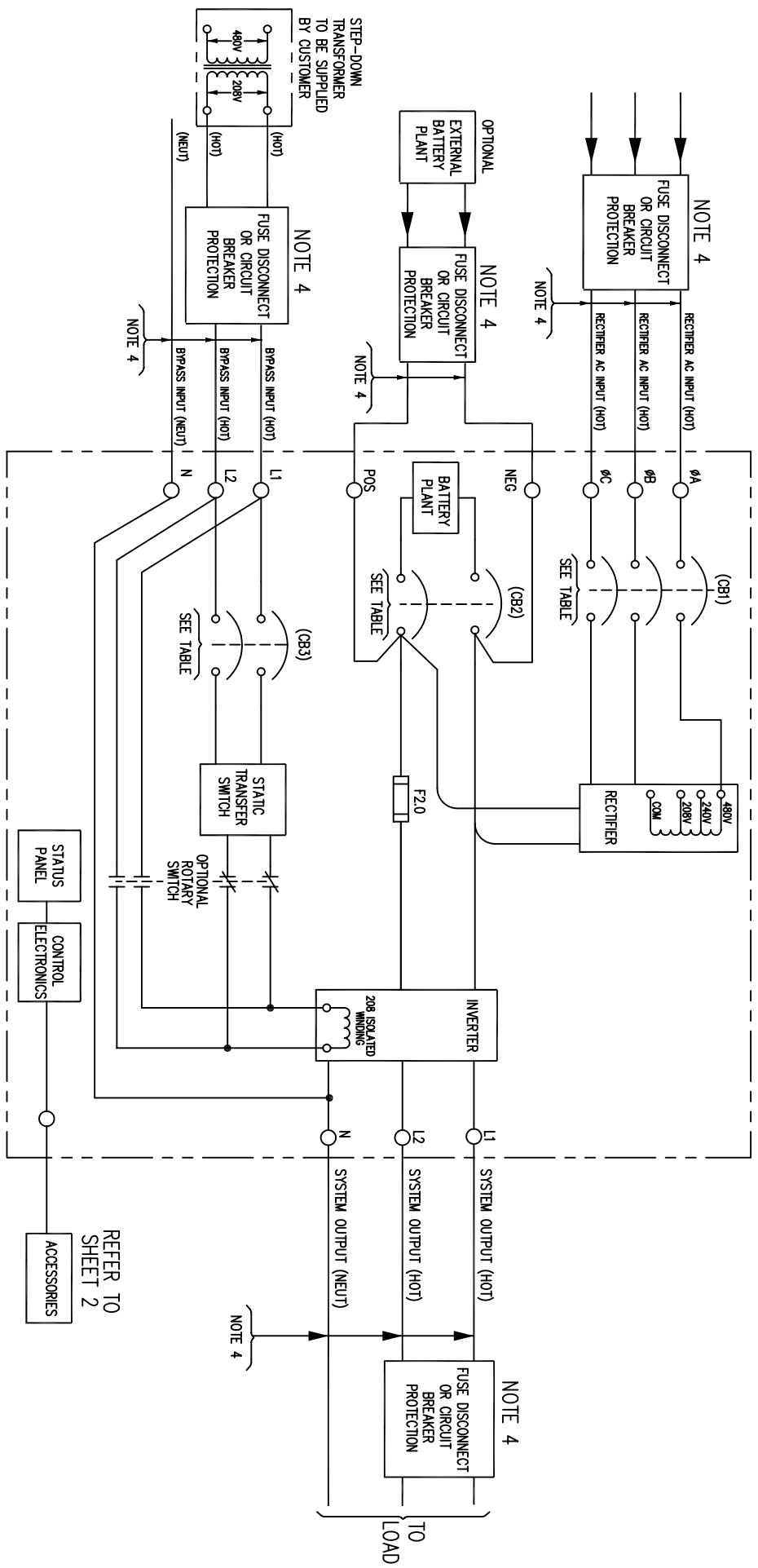
INSTALLER CONNECTIONS	120/208V OUTPUT	IC5196-715
	12SKVA, 10KW 3φ INPUT	IC5196-710
	18.75KVA, 15KW 3φ INPUT	
SHEET 5 OF 8	ISSUE	



SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT																							
	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	TERM. CAPACITY	TORQUE	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	(CB2) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. FUSING																	
12.5KVA	5196-710	240	52	AMPS	70A	10,000	8-1/0	AWG	35	IN/LB	4GA	80A	86A	80A	10,000	8-1/0	AWG	35	IN/LB	66A	70A	50A	360VDC	10,000	8-1/0	AWG	25	IN/LB	86A	50A	120/240V	83.3/42	8-1/0	AWG	35	IN/LB	2 GA	8 GA	125A/80A
18.75KVA	5196-715	240	70	AMPS	100A	10,000	8-1/0	AWG	35	IN/LB	3GA	100A	6GA	100A	10,000	8-1/0	AWG	40	IN/LB	2GA	125A	100A	360VDC	20,000	8-1/0	AWG	35	IN/LB	36A	100A	120/240V	125/62.5	8-1/0	AWG	40	IN/LB	1/0	8 GA	160A/80A

- 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.

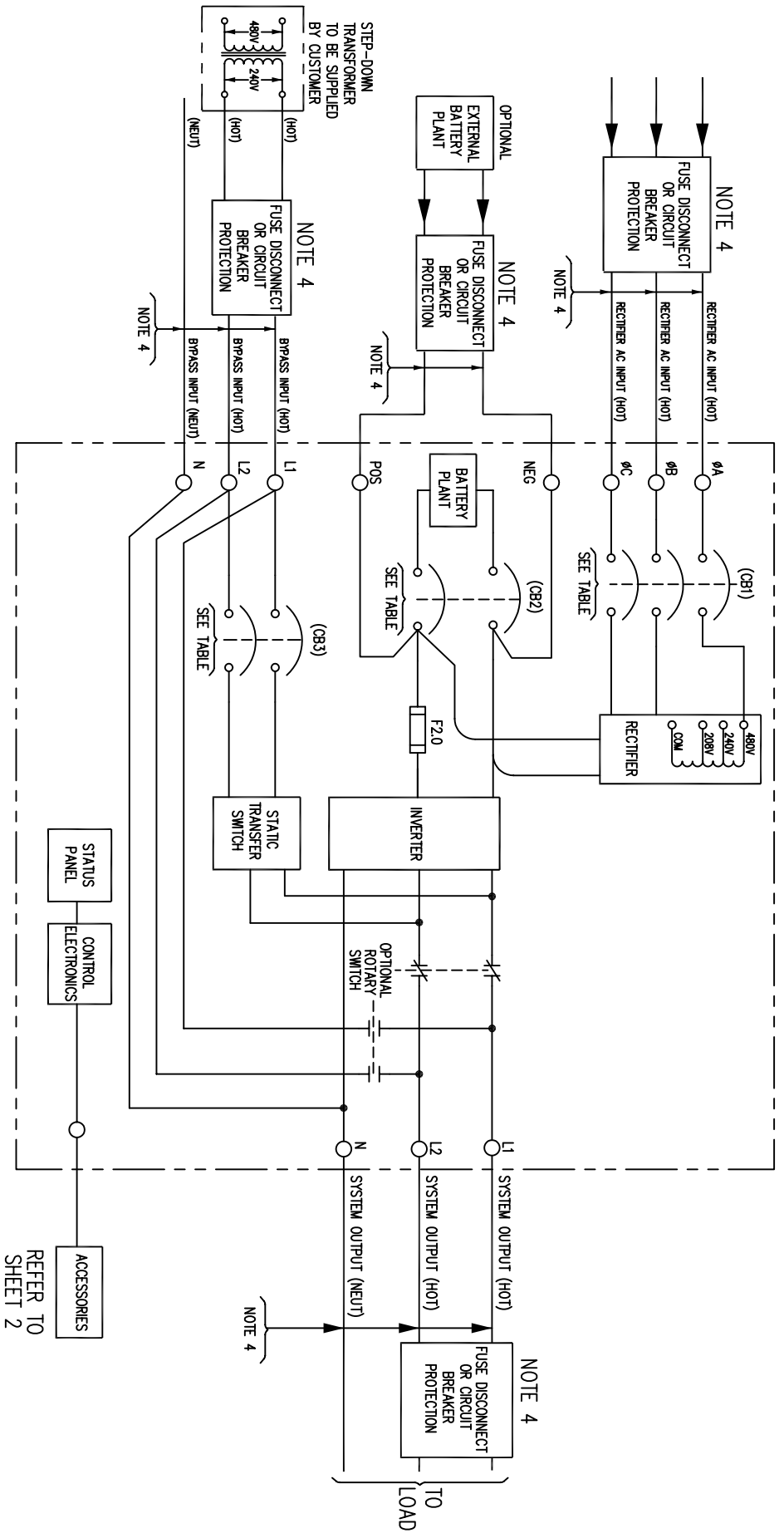
INSTALLER CONNECTIONS	IC5196-715
240V INPUT	IC5196-710
120/240V OUTPUT	
12.5KVA, 10KW 3Φ INPUT	
18.75KVA, 15KW 3Φ INPUT	
SHEET 6 OF 8	ISSUE



SPEC. No.	AC INPUT						BYPASS INPUT						BATTERY LEAD						SYSTEM OUTPUT						
	TERM. No. (φA, φB, φC)	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	TERM. No. (L1, L2 & N)	MAX. INPUT CURRENT	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	TERM. No. (POS, NEG)	NOMINAL VOLTAGE	(CB2) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	REC.M. SIZE	REC.M. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	REC.M. SIZE
12.5KVA	480	26 AMPS	30A	14,000	8-1/0 AWG 25 IN/LB	86A	480	26 AMPS	30A	14,000	8-1/0 AWG 25 IN/LB	86A	480	360VDC	10,000	8-1/0 AWG 25 IN/LB	86A	40A	106A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB 2 GA	8 GA	8 GA	125A/60A
18.75KVA	480	35 AMPS	40A	14,000	8-1/0 AWG 35 IN/LB	66A	480	35 AMPS	40A	10,000	8-1/0 AWG 40 IN/LB	26A	125A	360VDC	20,000	8-1/0 AWG 35 IN/LB	36A	60A	106A	120/208V	125/72	8-1/0 AWG 40 IN/LB 1/0	8 GA	8 GA	160A/90A

- 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.

INSTALLER CONNECTIONS	480V INPUT/208V BYPASS
	120/208V OUTPUT
	12.5KVA, 10KW 3φ INPUT
	18.75KVA, 15KW 3φ INPUT
IC5196-715	
IC5196-710	
SHEET 7 of 8	ISSUE



SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT										
	TERM. No. (9A, 9B, 9C)	MAX. INPUT CURRENT	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GND. SIZE	TERM. No. (L1, L2 & N)	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	TERM. No. (POS, NEG.)	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING
12.5KVA 5196-710	480	26 AMPS	30A	14,000	8-1/0 AWG 25 IN/LB	8GA	40A	10GA	60A	10,000	8-1/0 AWG 35 IN/LB	6GA	70A	10GA	360VDC	10,000	8-1/0 AWG 25 IN/LB	8GA	50A	120/240V	83.3/42	8-1/0 AWG 35 IN/LB	2 GA 8 GA	125A/80A	125A/80A	125A/80A
18.75KVA 5196-715	480	35 AMPS	40A	14,000	8-1/0 AWG 35 IN/LB	6GA	60A	10GA	100A	10,000	8-1/0 AWG 40 IN/LB	2GA	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	36A	100A	120/240V	125/62.5	8-1/0 AWG 40 IN/LB	1/0 8 GA	160A/80A	160A/80A	160A/80A

- 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.
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 - 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.

INSTALLER CONNECTIONS	480V INPUT/240V BYPASS
	120/240V OUTPUT
	12.5KVA, 10KW 3 ϕ INPUT
	18.75KVA, 15KW 3 ϕ INPUT
	IC5196-715
	IC5196-710
SHEET 8 OF 8	ISSUE