WSIPC

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ITB 21-04-01
Emergency Back-Up Generator Purchase
Removal and Installation
Addendum 2
May 7, 2021

The following corrections, questions, and clarifications are provided concerning WSIPC ITB 21-04-01 Emergency Back-Up Generator Purchase, Removal and Installation. Paraphrasing of the relevant questions posed to the WSIPC RFP Bid Contracts Administrator have been included as appropriate.

QUESTIONS AND CLARIFICATIONS:

Q1 – Can you identify the existing generator size or KW and if the new generator is larger? If the new generator is larger, would all new wiring be required, and would it need to be conduit?
A1 – 125KW and we do not need a larger generator, existing wiring and conduit can be used if code allows. Ethernet to be added to control wiring conduit.

Q2 – Can you please send a list of the Site Walk through attendees?
A2 – Site visit May 4, 2021 included: Henden Electric and Legacy Power
Site visit May 6, 2021 included: Capstone Solar, VECA Electric and McDonald Miller

Q3 – Do you expect the Contractor to quote both the replacement cost of the ATS, and the costs to reuse the ATS?
A3 – Yes, we would like both options included.

Q4 – If replacing the ATS, when will that work need to be done? After hours or weekends?
A4 – The installation / replacement of the ATS will have to be done on a weekend, preferably a Saturday on the first or second weekend of the month. WSIPC cannot be without power to the Data Center, HVAC Units and Technology Services at any time.

Q5 – Is there a way to wire in a temporary ATS if a new/replacement one is required?
A5 – This will need to be determined by an electrical Contractor.

Q6 – Is there back up power in the Data Center; where is that located? Must it always stay on, and what is the duration of the backup power?
A6 – No back up power in the Data Center, the Data Center is located in the SE corner of the building, the Data Center cannot lose power at any time, our UPS system is capable of handling the load for 14 minutes**.**

Q7 – Will the tree to the North of the generator pad need to be pruned or removed?
A7 – The Requirements have changed to include the removal of a tree on the North side of the generator. Please refer to Addendum 1 below:

Addendum 1:
The following shall be added to the REQUIREMENTS paragraph in Section 4.1 Specifications, REQUIREMENTS:

- Removal of tree on the North side of the existing generator, including hauling away all brush and wood. If a new concrete pad is required that impacts the fence around the generator, the stump may also need to be removed and the fence will need to be extended.

Q8 – Will traffic be managed or stopped during the use of the crane lift during removal and installation of the generator?
A8 – Yes it will have to be managed by professional traffic control personnel if lifting from the street, or the lift work can happen from WSIPC main driveway near the main gate entrance using safety barriers (cones).

Q9 – Can a forklift be driven up to the existing generator pad in lieu of using a crane?
A9 – No, a crane must be used.

Q10 – How much diesel fuel is currently in the tank?
A10 – There is approximately 150-180 gallons of fuel.

Q11 – Will you be using the existing conduit?
A11 – Yes

Q12 – Does WSIPC want to have the control panel to monitor the generator over the network? Does WSIPC currently have something in place that monitors the generator?
A12 – We would like an interior control panel that could be hooked up to the existing WSIPC network, and no we do not have a current control panel inside the building. The existing control panel is located on the generator.

Q13 – What if a larger pad is needed for the new generator, and will that be approved?
A13 – Yes if the generator needs a new or larger pad that will be approved.

Q14 – What Inspections are required, electrical and mechanical?
A14 – WSIPC expects the Contractor to advise of all permits needed and present an approximate cost and timeline for obtaining the permits.

Q15 – What is the jurisdiction?
A15 – City of Everett

Q16 – What is the existing generator (type) and what is wrong with the generator?
A16 – 1998 Kohler/John Deer, unrepairable damages as a result of an auto accident.

Q17 – How old is the ATS?
A17 – 1998, approximately twenty-three (23) years

Q18 – Would you accept a quote on a Kohler generator?
A18 – Yes, WSIPC will issue a separate Addendum addressing Section 4. Specifications – Generator Specs (adding Kohler as an option)

Q19 – Is there a UPS?
A19 – Yes, the UPS is a part of the ATS generator backup power.

Q20 – Is the UPS fed from the same feeder that feeds the generator?
A20 – Yes.

Q21 – Will the existing backup generator on site remain in place until the project is completed?
A21 – Yes.

Q22 – Would WSIPC be interested in adding a docking point for future use?
A22 – Yes.

Q23 – Can we get access to the one (1) line drawing(s)
A23 – Yes, Mitsubishi 9900A Series UPS Schematic Diagram List (including Line 1 Drawings). Please see (pgs. 5-10).

Q24 – Will the generator listed in Section 4. Specifications, REQUIREMENTS be large enough to meet the future needs of WSIPC, say fifteen to twenty (15-20) years from now, if yes, would you consider a larger generator?
A24 – No, not at this time; WSIPC continues to make improvements to run more efficiently.

Q25 – What does the generator provide power for?
A25 – Data Center, 2 HVAC Units, and Technology Services.

Q26 – Will the removal and delivery of the generators need to be done after hours when there is no car lot activity and or people?
A26 – No, WSIPC will route the incoming and outgoing traffic to the southern parking lot gate, away from the main/front entrance. Contractor will need to provide safety barriers (cones) as needed.

Q27 – How much power is needed to run the Data Center?
A27 – 125KW is enough to run the Data Center, the HVAC Units and the Technology Services Area.

Q28 – What is the battery size on the UPS and what is the run time?
A28 – There are forty (40) each HX330-12FR VRLA batteries. UPS will run for approximately fourteen (14) minutes on battery power.

Q29 – What is the best route to get the conductors into the electrical room and how much cable will be needed?
A29 – The side entrance to the east of the main lobby entrance, approximately 150ft.

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MITSUBISHI 9900A SERIES UPS

SCHEMATIC DIAGRAM LIST

PROJECT 150kVA(480V) UL LISTED UPS

TYPE UP9933A-A154DU-4

PAGE NO.	SHEET NO.	REVISION NO.	TITLE	PAGE NO.	SHEET NO.	REVISION NO.	TITLE
001	A01	A	SCHEMATIC DIAGRAM LIST				
002	E01		SYSTEM CONFIGURATION				
003	E02		SINGLE LINE DIAGRAM				
004	J01		OUTLINE-1				
005	J02		OUTLINE-2				
006	K01		EXTERNAL SIGNAL TERMINAL BLOCK				

三角画法
尺度 SCALE
:

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UG設

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入力済

A	First drawing	作成日付 DATE	JULY .1 .2008
		作成・照査 DRAWN	S.Takubo・K.H
		設計・検図 APPROVED	T.Kawahara K.H

MITSUBISHI ELECTRIC CORPORATION

TITLE: SCHEMATIC DIAGRAM LIST

DWG.No. 3DAA1050

SHEETNo. A01

BOARDNo.

PAGENo. 001/006

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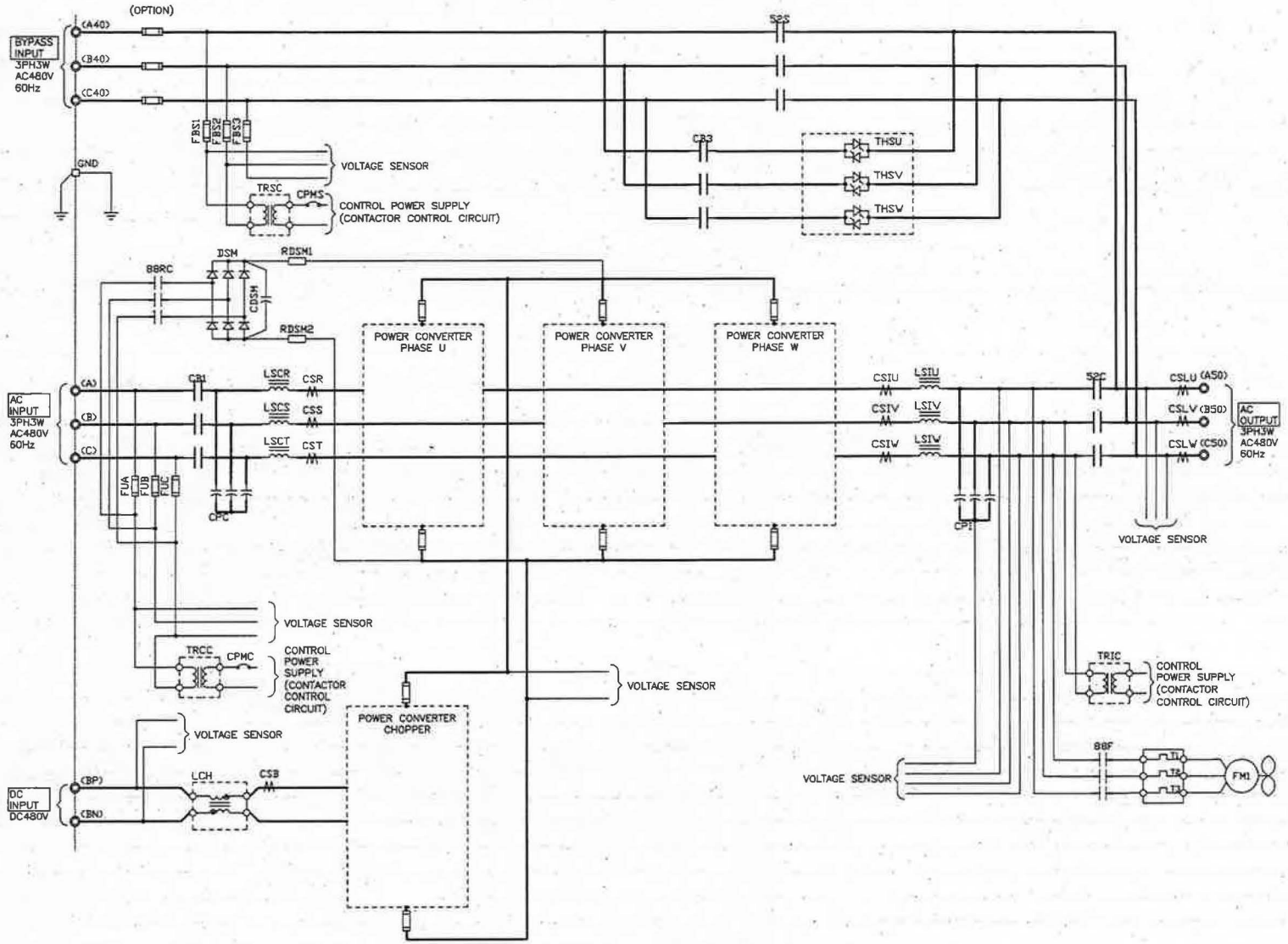
M-L-2



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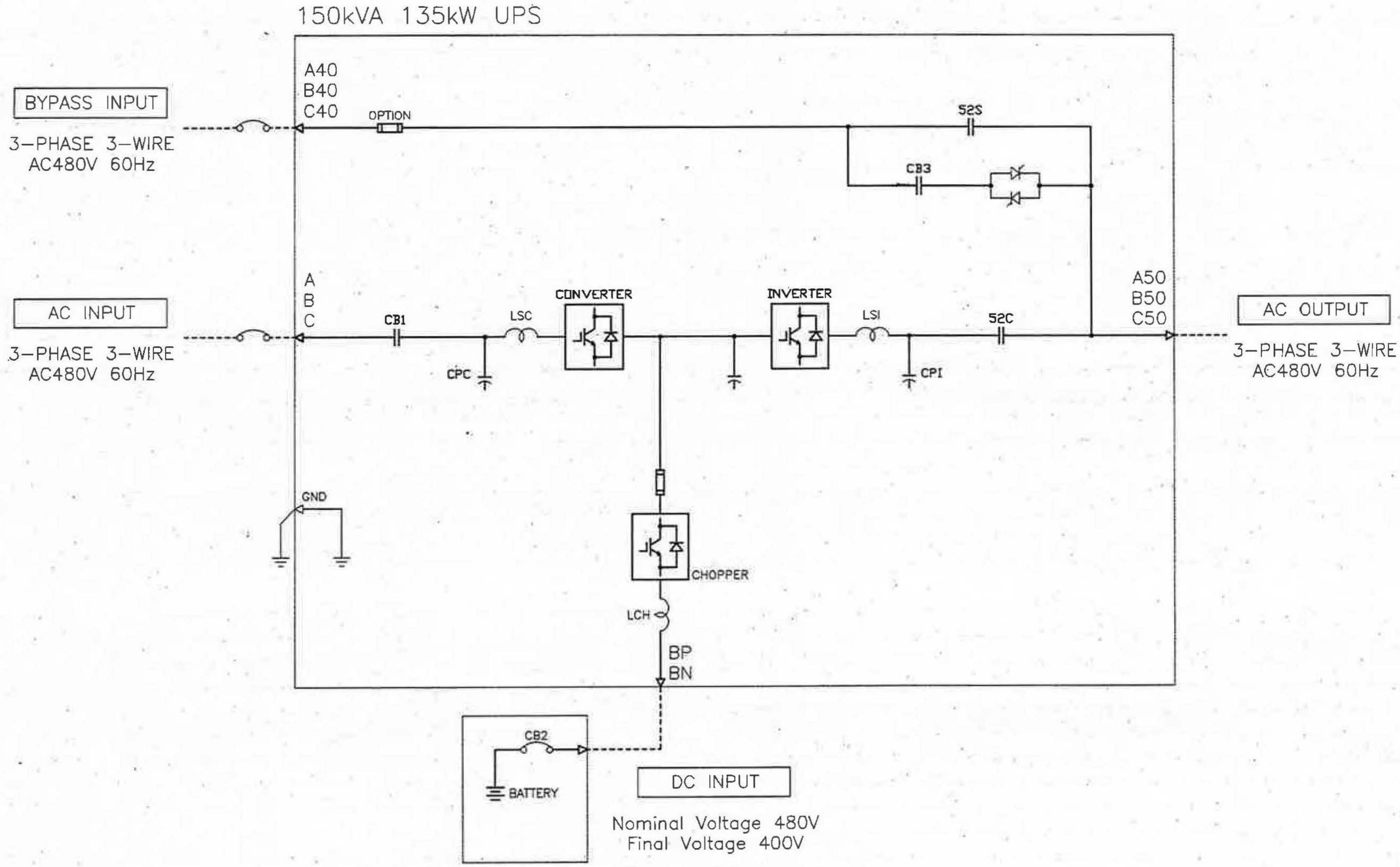
	MITSUBISHI ELECTRIC CORPORATION	TITLE	SHEETNo. E01
	作成日付 DATE JULY .1 .2008	SYSTEM CONFIGURATION	BOARDNo.
	作成・照査 DRAWN S.Takubo・K.H	DWG.No. 3DAA1050	PAGENo. 002/006
	設計・検図 APPROVED T.Kawahara K.H		



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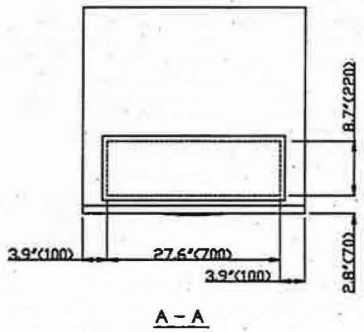
MITSUBISHI ELECTRIC CORPORATION

作成日付 DATE	JULY.1 .2008	TITLE	SHEETNo. E02
作成・図査 DRAWN	S.Takubo · K.H	SINGLE LINE DIAGRAM	BOARDNo.
設計・検図 APPROVED	T.Kawahara K.H	DWG.No. 3DAA1050	PAGENo. 003/006

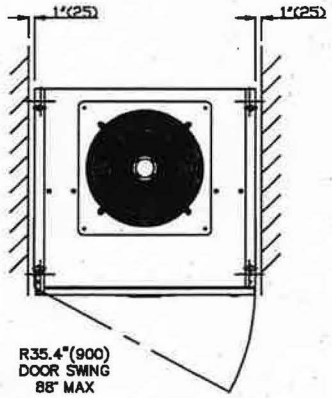
図番 3DAA

記 錄

M-L-2



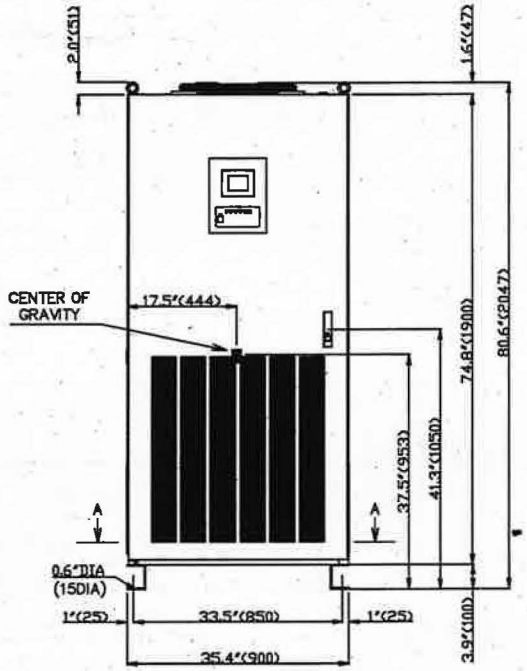
A-A

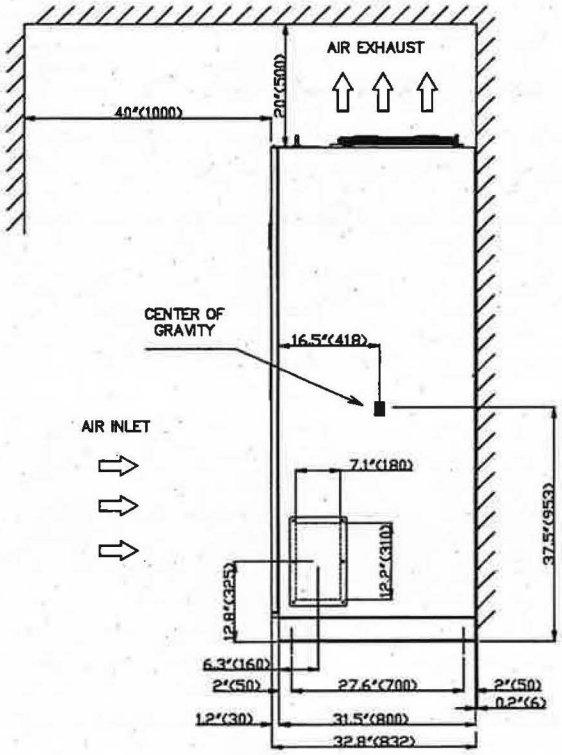


NOTES

1.DIMENSIONS ARE SHOWN IN INCHES (MILLIMETERS).
2.SIDE SPACE '1"(25)' IS NOT REQUIRED WHEN SIDECAR ARE USED.
3.CABINET SHOULD BE MAINTAINED UPRIGHT WITHIN ±15° DURING HANDLING.
4.APPROXIMATE WEIGHTS

150KVA :1160lbs (526kg)





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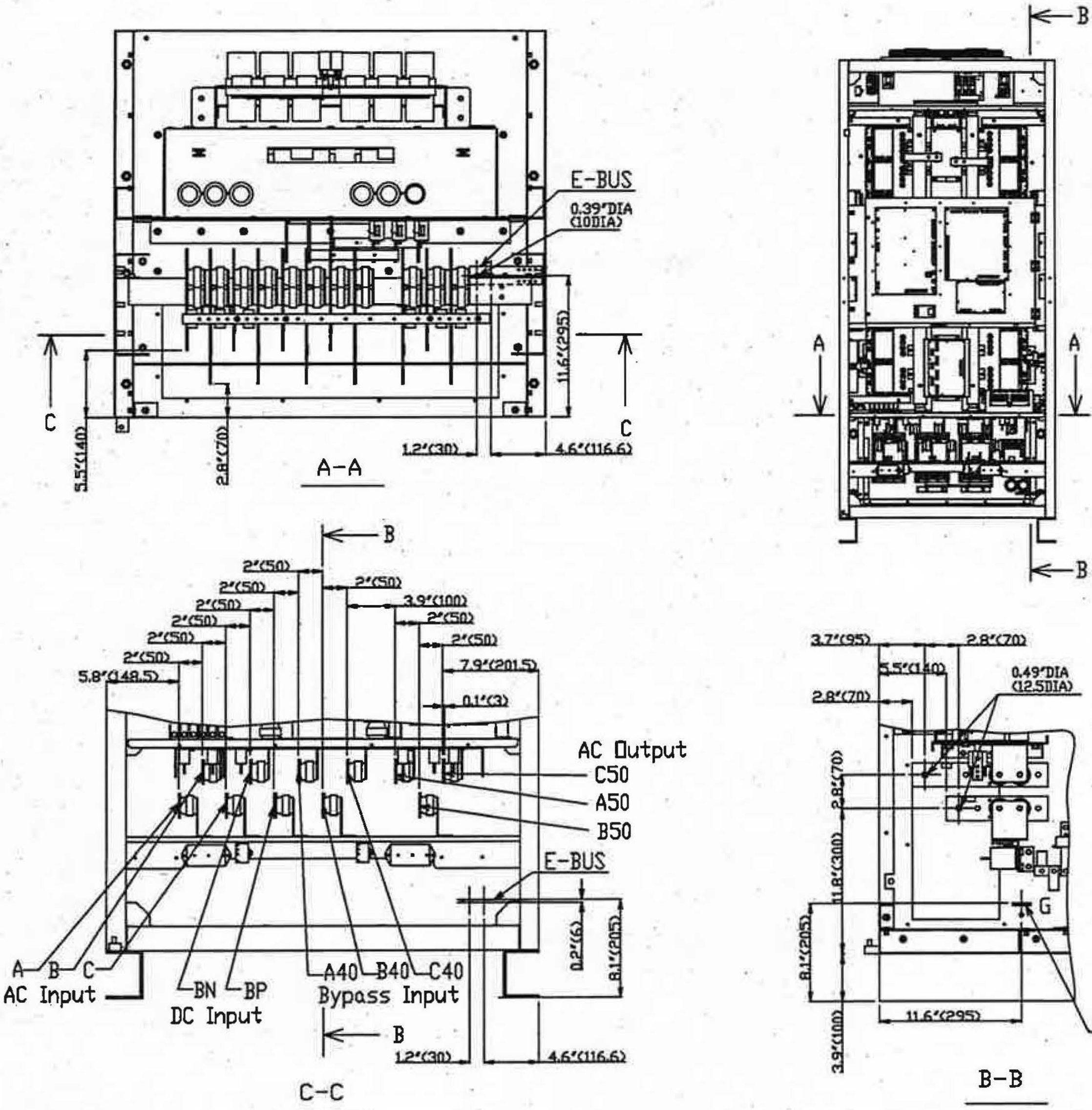
	MITSUBISHI ELECTRIC CORPORATION	TITLE		SHEETNo. J01
	作成日付 DATE	JULY .1 .2008	OUT LINE-1	BOARDNo.
	作成・図室 DRAWN	S.Takubo・K.K	DWG.No. 3DAA1050	PAGENo. 004/006
	設計・検図 APPROVED	T.Kawahara・K.N		

図番 3DAA
記録
M-L-2



NOTES

5. EXTERNAL WIRING MATERIALS FOR AC INPUT, DC INPUT, BYPASS INPUT AND AC OUTPUT SHOULD BE SUPPLIED BY CUSTOMER (OUT OF SCOPE OF SUPPLY FROM MITSUBISHI).
6. A,B,C CLOCKWISE ROTATION

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MITSUBISHI ELECTRIC CORPORATION		TITLE	SHEETNo. J02
作成日付 DATE	JULY.1 .2008	OUT LINE-2	BOARDNo.
作成・図書 DRAWN	S.Takuba · K.N	DWG.No. 3DAA1050	PAGENo. 005/006
設計・検図 APPROVED	T.Kawahara K.N		

図番 3DAA1050

記録

UP33GA

K01

(OPTION)
TO I02:
EXTERNAL I/F BOARD

CN82
(HIF-16P)

I01

N.C.

TN2
(TN-20P)

20 18 16 14 12 10 8 6 4 2
19 17 15 13 11 9 7 5 3 1

TN1
(TN-20P)

20 18 16 14 12 10 8 6 4 2(-)
19 17 15 13 11 9 7 5 3 1(+)

52C CLOSE
OUT8: TOTAL ALARM
OUT7: SPARE
OUT6: OVERLOAD
OUT5: BATTERY LOW VOLTAGE
OUT4: CONVERTER OPERATION
OUT3: BATTERY OPERATION
OUT2: LOAD ON INVERTER
OUT1: LOAD ON BYPASS
SUMMARY ALARM

REMOTE EPO
IN4: POWER DEMAND
IN3: BATTERY TEMP.HIGH
IN2: REMOTE INVERTER STOP
IN1: REMOTE INVERTER START
52L AX
CB2 AX
CB2 UVT

UVT

LOAD CIRCUIT SWITCH

BATTERY BREAKER PANEL

Win版

CAD

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UG版

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MITSUBISHI ELECTRIC		EXTERNAL SIGNAL TERMINAL BLOCK	SHEET NO. K01
日付 DATE	JULY.1.2008		
作成・承認 DRAWN	S.Takubo K.M	3DAA1050	PAGE NO. 006/006
設計・検図 APPROVED	T.Kawahara K.M		