

CUSTOMER: CARRIER CORPORATION

CUSTOMER ORDER NUMBER:

DISTRIBUTOR:

DISTRIBUTOR ORDER NUMBER:

PROJECT:

PROJECT ORDER NUMBER:

ROCKWELL AUTOMATION ORDER NUMBER:

NOTE: SPECIFIC DRAWINGS WILL BE SUPPLIED TO EACH PARTICULAR ORDER.

SERIES NUMBER	UNIT NUMBER	EQUIPMENT DESCRIPTION	PAGE DESCRIPTION	SHEET
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			POWER WIRING INTERCONNECTIONS	4
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XXXXXX-XXX-13E	2A-5A	MEDIUM VOLTAGE AC DRIVE	LINE AND LOAD CONNECTIONS	9
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CERTIFIED

M.VARGAS

DRAWN

J. FILIPOVIC

DATE

2013-06-25

DATE

2013-04-29

REV

2

REV

3

REVISION

PRELIMINARY

PRELIMINARY

INT

JF

JF

DATE

2013-05-14

DATE

2013-06-29

CUSTOMER

CARRIER CORPORATION

DISTRIBUTOR

PROJECT

ORDER NO.

DESCRIPTION

DRAWING INDEX

BULLETIN

7000

SIZE

XXXA

REV

3

DWG. NO.

CARRIER-001-13E

SHEET

1

OF

18

AB

Allen-Bradley

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GENERAL NOTES

1

REMOTE EQUIPMENT

6

FOR CUSTOMER USE.

7

MECHANICAL INTERLOCK

8

CURRENT LIMITING

23

DANGER: MORE THAN ONE LIVE CIRCUIT.

66

CARRIER ISM TO BE PROGRAMMED BY CARRIER BEFORE START-UP. RELAY CONTACTS SHOWN WITHOUT SIGNAL POWER APPLIED.

67

COMPONENTS SIZED FOR LOAD DATA PROVIDED.

70

REVIEW CARRIER SERVICE BULLETIN FOR ASR SETTING.

71

CALIBRATE FOR: 4~20mA; 0-5VDC (DEFAULT 0-10VDC).

72

WIRING SHOULD BE #12 AWG.

100

WARNING: GROUND MUST BE CONNECTED TO PREVENT HIGH VOLTAGES FROM BEING APPLIED TO DRIVE CONTROL BOARDS.

102

LV CONTROL WIRING WITHIN THE VFD ENCLOSURE SHALL BE #16 AWG UNLESS OTHERWISE NOTED. LV CONTROL WIRING WITHIN THE AUXILIARY UNITS SHALL BE #14 AWG UNLESS OTHERWISE NOTED. LV CONTROL WIRING BETWEEN THE UNITS SHALL BE #14 AWG UNLESS OTHERWISE NOTED.

104

LOCATED IN DRIVE LOW VOLTAGE CONTROL SECTION. WIRE WITH #12 AWG.

105

DEVICE IS MOUNTED ON THE LOW VOLTAGE DOOR OF THE DRIVE.

110

PROVISION FOR REMOTE EMERGENCY STOP, CUSTOMER SUPPLIED. REMOVE JUMPER WHEN INSTALLING REMOTE EMERGENCY STOP. WHEN THERE IS MORE THAN ONE REMOTE EMERGENCY STOP CUSTOMER MUST WIRE IN SERIES. EMERGENCY STOP PUSH BUTTON MUST HAVE A MAINTAINED CONTACT.

120

LOCATED IN DRIVE INPUT CONTACTOR CONTROL SECTION.

158

LOOP WIRE ONCE THROUGH FERRITE.

DEVICE DESIGNATIONS

1M	START RELAY
ACB	ANALOG CONTROL BOARD
APx	AIR PRESSURE DIFFERENTIAL TRANSDUCER
CBx	CIRCUIT BREAKER
CMC	COMMON MODE CHOKE
CPTx	CONTROL POWER TRANSFORMER
CTx	CURRENT TRANSFORMER
DI	DRIVE INPUT CONTACTOR
DI-IV	DRIVE INPUT CONTACTOR INTELLIVAC MODULE
DIC	DRIVE INPUT CONTROL RELAY
DICR1	DRIVE INPUT CONTACTOR PILOT RELAY
DIIS	DRIVE INPUT ISOLATING SWITCH
DILR	DRIVE INPUT LINE REACTOR
DIM	DRIVE IDENTITY MODULE
DIOL	DRIVE INPUT OVERLOAD
DIOLX	DRIVE INPUT OVERLOAD AUXILIARY RELAY
DITB	DRIVE INPUT CONTACTOR TERMINAL BLOCKS
DPH	DRIVE PROCESSOR MODULE
DSx	DISCONNECT SWITCH
DTBx	DRIVE TERMINAL BLOCKS
EMC	ELECTRO-MAGNETIC CHOKE
ES	ETHERNET SWITCH
FLT	FAULT RELAY
FX	FUSE
GFC	GATE FIRING CIRCUIT
GFCT	GROUND FAULT CURRENT TRANSFORMER
HECSDC1	HALL EFFECT CURRENT SENSOR (DC LINK)
HECSU	HALL EFFECT CURRENT SENSOR (U PHASE)
HECSW	HALL EFFECT CURRENT SENSOR (W PHASE)
HPR	HIGH PRESSURE RELAY
IFM	INTERFACE MODULE
IGDPSx	ISOLATED GATE DRIVE POWER SUPPLY
INV	INVERTER
ISM	INTEGRATED STARTER MODULE
LFC	LINE FILTER CAPACITORS
LRFNx	LINE REACTOR FAN x
LVx	EXTERNAL LOW VOLTAGE SUPPLY
MFC	MOTOR FILTER CAPACITORS
MFN1	MAIN COOLING FAN
MFNIC	MAIN FAN CONTACTOR
MFNIMP	MAIN FAN MOTOR PROTECTOR
MOV	METAL OXIDE VARISTOR
MSR	MONITORING SAFETY RELAY
MSRxx	MONITORING SAFETY RELAY AUXILIARY RELAY x
MTR	MOTOR
NR	NEUTRAL RESISTOR
OI	OPERATOR INTERFACE
OIBBI	OPTIC INTERFACE BASE BOARD (INVERTER SIDE)
OIBBR	OPTIC INTERFACE BASE BOARD (RECTIFIER SIDE)
OIBI	OPTIC INTERFACE BOARD (INVERTER SIDE)
OIBR	OPTIC INTERFACE BOARD (RECTIFIER SIDE)
PFNI	POWERFLEX INTERFACE BOARD
PP	CARRIER POWER PANEL
PS1A	AC/DC CONVERTER
PS2	DC/DC CONVERTER
PS4	AC/DC CONVERTER
REC	RECTIFIER
RJ45	ETHERNET PORT
RUN	RUN RELAY
Rx	RESISTOR
SA	SURGE ARRESTOR
SN	SNUBBER NETWORK

COLOUR DESIGNATIONS

A	AMBER
BLK	BLACK
B	BLUE
BR	BROWN
C	CLEAR
G	GREEN
ORG	ORANGE
R	RED
W	WHITE
Y	YELLOW

ABBREVIATIONS

AC	ALTERNATING CURRENT
DC	DIRECT CURRENT
GND	GROUND
LV	LOW VOLTAGE
MV	MEDIUM VOLTAGE
PE	EARTH GROUND
SG	SAFETY GROUND
TE	SIGNAL GROUND

WIRE NUMBERING FOR SINGLE PHASE CIRCUITS

CIRCUIT OR DEVICE	DESIGNATED NUMBERS	LAST NUMBER USED
DRIVE ASSOCIATED STARTERS	1-199	160B
AC POWER SUPPLY CIRCUIT AND Ø1 FANS	200-299	215A
DC POWER SUPPLY CIRCUIT	300-399	311
AC CONTROL CIRCUIT	400-499	405A
ACB I/O	500-599	507A
XI01 I/O	600-699	638A
XI02 I/O	700-799	N/A
XI03 I/O	800-899	N/A
PLC	900-999	N/A
SPACE HEATER(S)	1000-1099	N/A
MISC	1100-1199	1111A

ALL INTERCONNECTIONS BETWEEN DRIVE AND ASSOCIATED UNITS WILL BE TAGGED WITH IDENTICAL NUMBERS AT EACH END.
CONTROL INTERCONNECTIONS WILL BE PREFIXED WITH THE DESTINATION DESIGNATION.
POWER INTERCONNECTIONS WILL BE PREFIXED WITH THE SOURCE DESIGNATION.

DESIGNATION WIRE NUMBER

D-300

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CERTIFIED

M.VARGAS

DATE

2013-06-25

REV

2

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CUSTOMER

CARRIER CORPORATION

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J. FILIPOVIC

DATE

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3

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2013-06-29

DISTRIBUTOR

PROJECT

DESCRIPTION

GENERAL NOTES AND DEVICE DESIGNATIONS

BULLETIN

7000

SIZE

XXXA

REV

3

DWG. NO.

CARRIER-001-13E

SHEET

2

OF

18

Allen-Bradley

E-DH-C

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AutoCAD®

KEY INTERLOCK SYSTEM SUPPLIED BY ROCKWELL AUTOMATION

DANGER

SYSTEM INTEGRITY DEPENDS ON HAVING ONLY ONE KEY FOR EACH INTERCHANGE DESIGNATION. IF MORE KEYS ARE AVAILABLE THE INTERLOCKING INTEGRITY IS LOST. SAFETY OF PERSONNEL AND EQUIPMENT WILL BE AFFECTED.

THE CUSTOMER MUST ENSURE THAT HIS CONFIGURATION OF THIS EQUIPMENT INTO HIS SYSTEM DOES NOT RESULT IN DAMAGE TO THIS EQUIPMENT. THE SYSTEM SHOWN HERE IS DESIGNED TO ACHIEVE THE FUNCTION DESCRIBED BELOW.

DANGER

OBSERVE CAPACITOR DANGER LABELS ON DOORS. EXTERNAL CONTROL VOLTAGES WILL BE PRESENT. SEE DIAGRAMS.

FUNCTION

THE KEY INTERLOCK SYSTEM PREVENTS ACCESS TO THE MEDIUM VOLTAGE SECTIONS OF THE POWERFLEX 7000 DRIVE UNTIL THE MEDIUM VOLTAGE SUPPLY IS LOCKED OFF AT THE DRIVE INPUT CONTACTOR/BREAKER UNIT.

TO GAIN ACCESS TO THE DRIVE MEDIUM VOLTAGE SECTIONS

- 1) IF THE DRIVE IS RUNNING THE MOTOR, FIRST STOP THE MOTOR.
- 2) OPEN THE INPUT CONTACTOR/BREAKER BY PRESSING DRIVE EMERGENCY STOP.
- 3) OPEN THE INPUT ISOLATING SWITCH (OR RACK OPEN THE BREAKER). LOCK IT OPEN AND REMOVE KEY K1.
- 4) INSERT KEY K1 INTO THE TRIPLE KEY DOOR LOCK IN THE DRIVE INVERTER/RECTIFIER SECTION. THIS DOOR CAN NOW BE UNLOCKED AND THE TWO K2 KEYS CAN BE REMOVED.
- 5) THE TWO K2 KEYS CAN NOW BE USED TO UNLOCK THE CABLING AND LINE REACTOR SECTIONS.
- 6) TO RESTORE EQUIPMENT TO ORIGINAL SERVICE POSITION, REVERSE THE ABOVE STEPS.

KA AND KB ARE GENERAL DESIGNATIONS ONLY.
REFER TO THE CHART BELOW FOR THE ACTUAL
KEY/LOCK ENGRAVING.

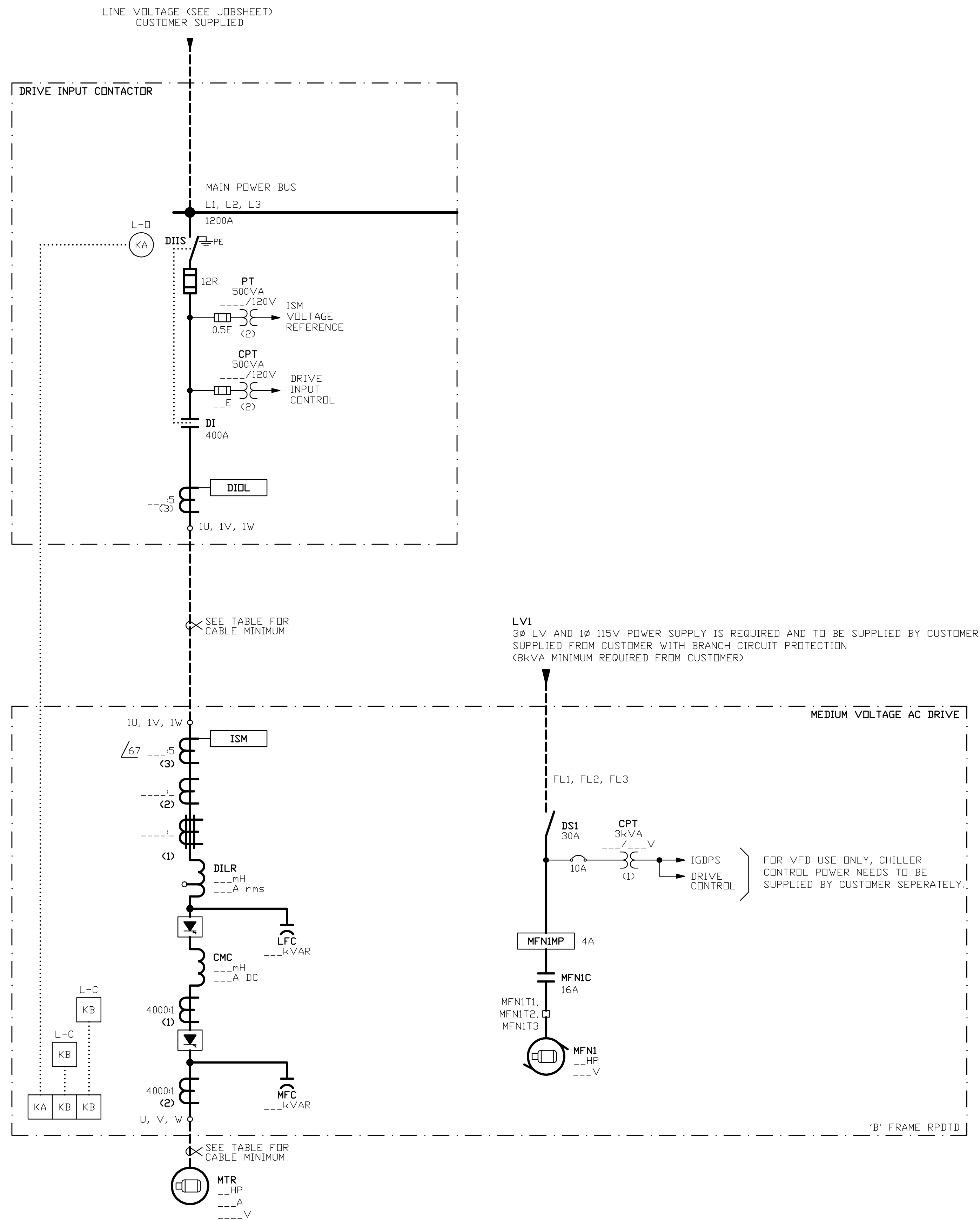
	SERIES NUMBER
	XXXXXXX-XXX-13E XXXXXXX-XXX-13E
KA	K1
KB	K2

CABLE INSULATION REQUIREMENTS FOR "DIRECT TO DRIVE" TECHNOLOGY

SYSTEM VOLTAGE	CABLE INSULATION RATING (kV) (MAXIMUM PEAK LINE-TO-GROUND)	
	LINE SIDE	MACHINE SIDE
2400	> 2.2	> 2.2
3000	> 2.75	> 2.75
3300	> 3.0	> 3.0
4160	> 3.8	> 3.8
6000	> 5.5	> 5.5
6300	> 5.8	> 5.8
6600	> 6.0	> 6.0

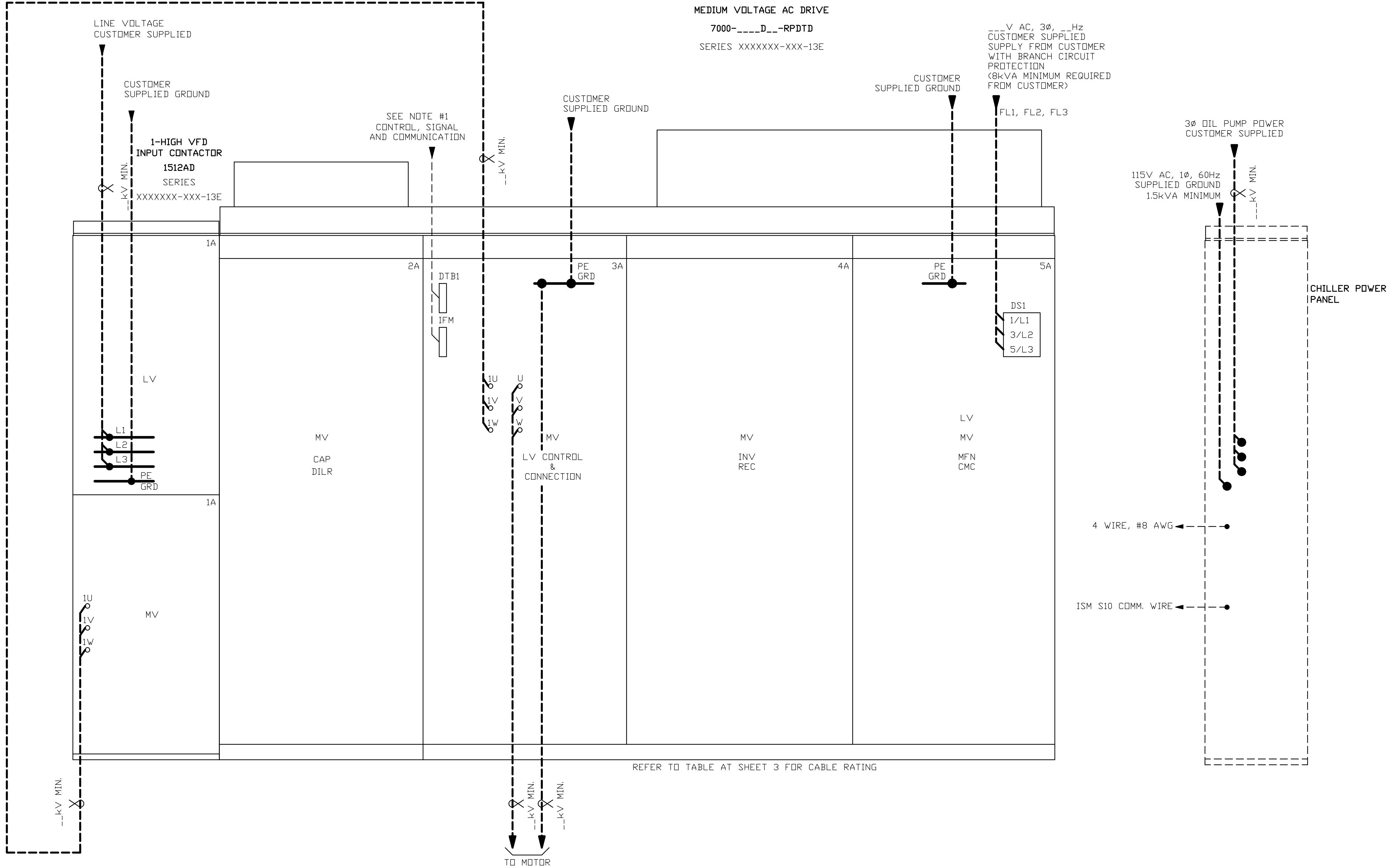
LEGEND

- | | |
|---|---|
| L-O | LOCKED OPEN |
| L-C | LOCKED CLOSED |
|  | KEY INTERLOCK ON ISOLATION SWITCH |
|  | KEY INTERLOCK ON MV DOOR |
|  | MULTIPLE BARREL KEY INTERLOCK ON ISOLATION SWITCH |
|  | MULTIPLE BARREL KEY INTERLOCK ON MV DOOR |
|  | TRANSFER BLOCK |



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	M.VARGAS	2013-06-25	2	PRELIMINARY	JF	2013-05-14	DISTRIBUTOR				SIZE XXXA			
	DRAWN	DATE		PRELIMINARY	JF	2013-06-25	PROJECT				REV	DWG. NO.		SHEET 3
	J. FILIPOVIC	2013-04-29	3									3		CARRIER-001-13E

NOTE #1
-CONTROL SIGNAL AND COMMUNICATION
INTERLOCK WIRING
- PUMPS CONTACTS
- ALARM CONTACT
- SPARE SAFETY

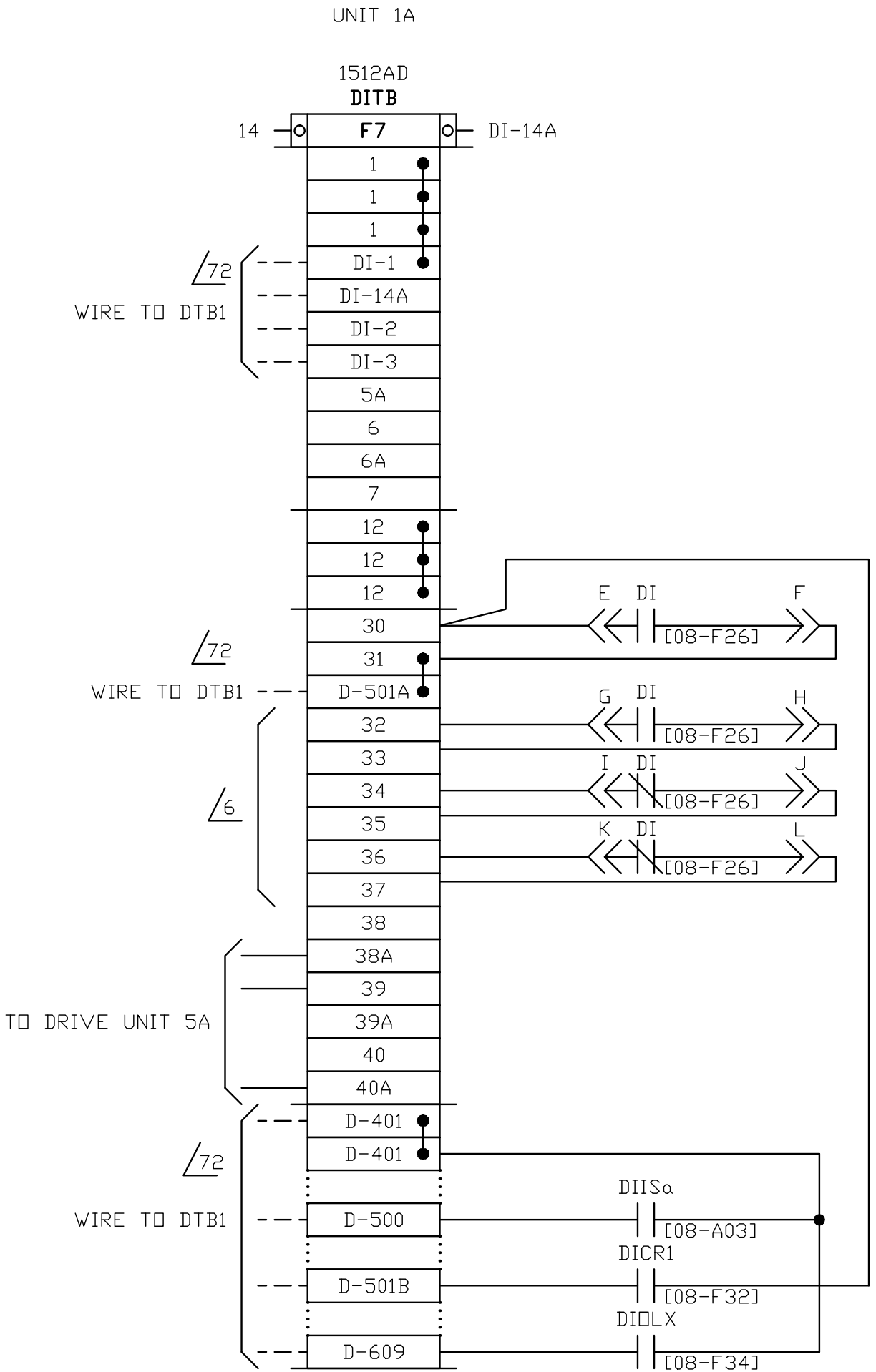


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	DRAWN	DATE		PRELIMINARY	JF	2013-06-25	DISTRIBUTOR					REV		DWG. NO.	SHEET	4
	J. FILIPOVIC	2013-04-29	3				PROJECT					3		CARRIER-001-13E	OF	18

NOTE: WIRING BETWEEN DRIVE INPUT STARTER
AND DRIVE TO BE DONE BY CUSTOMER.

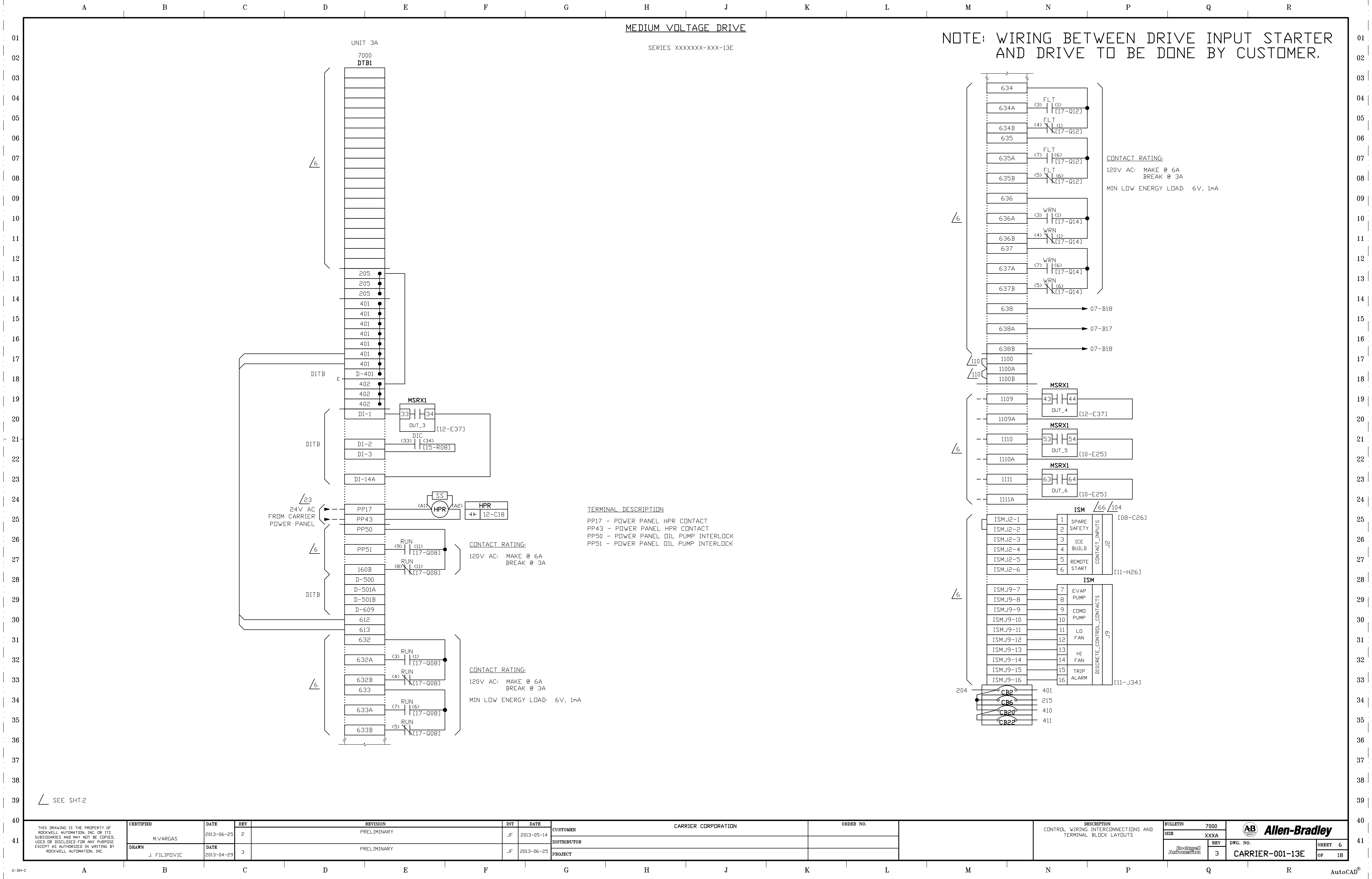
DRIVE INPUT CONTACTOR

SERIES XXXXXX-XXX-13E



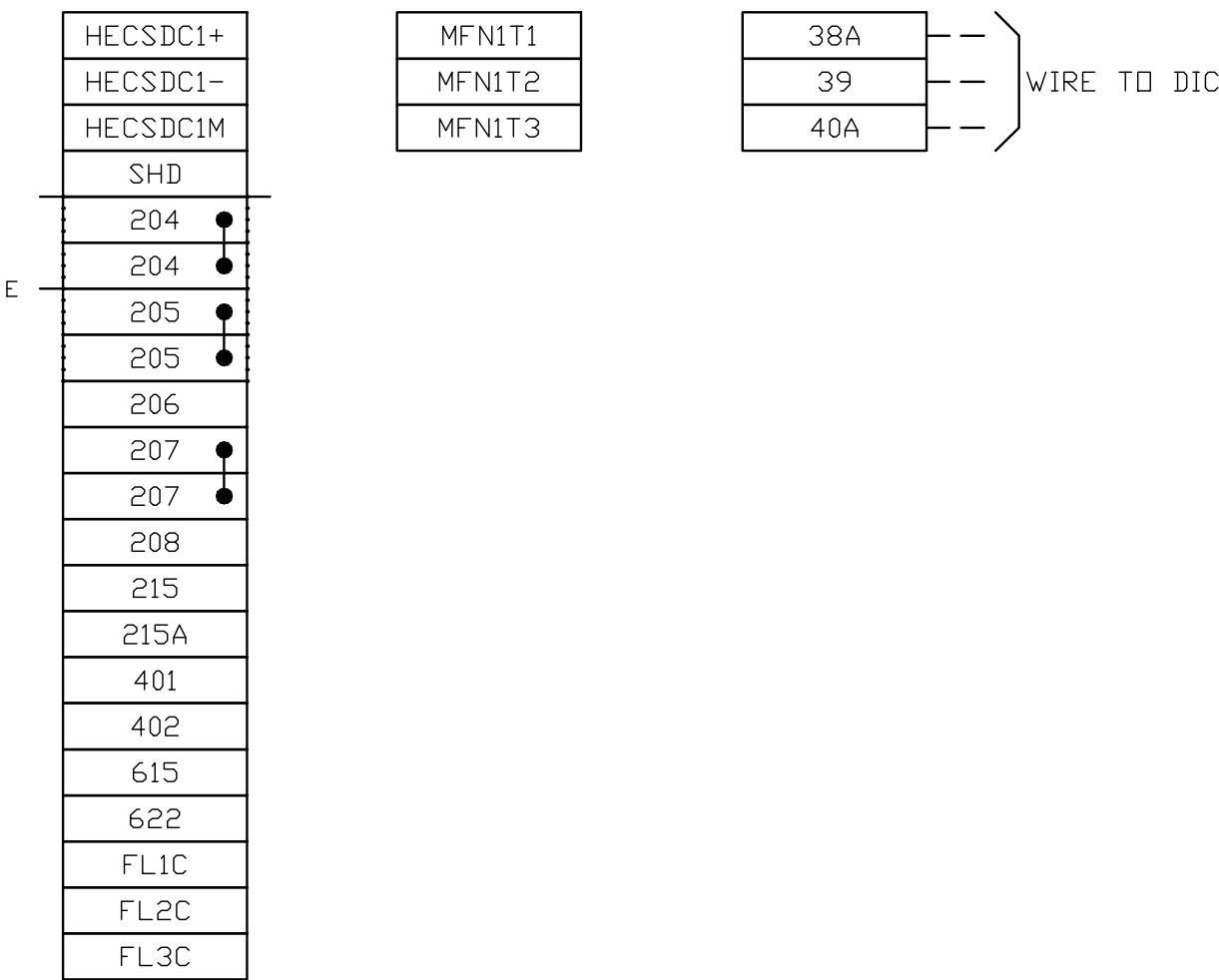
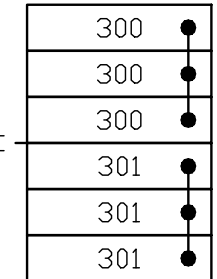
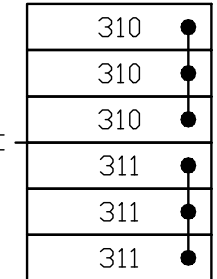
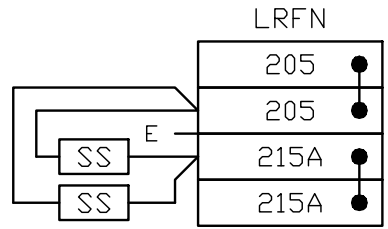
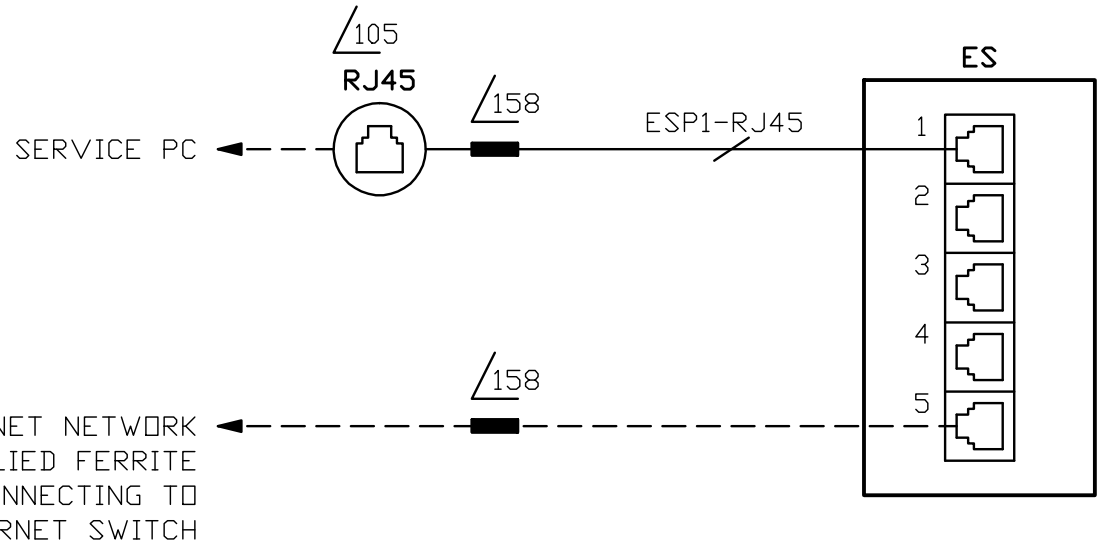
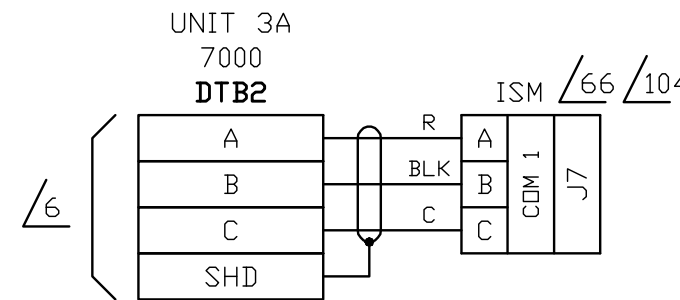
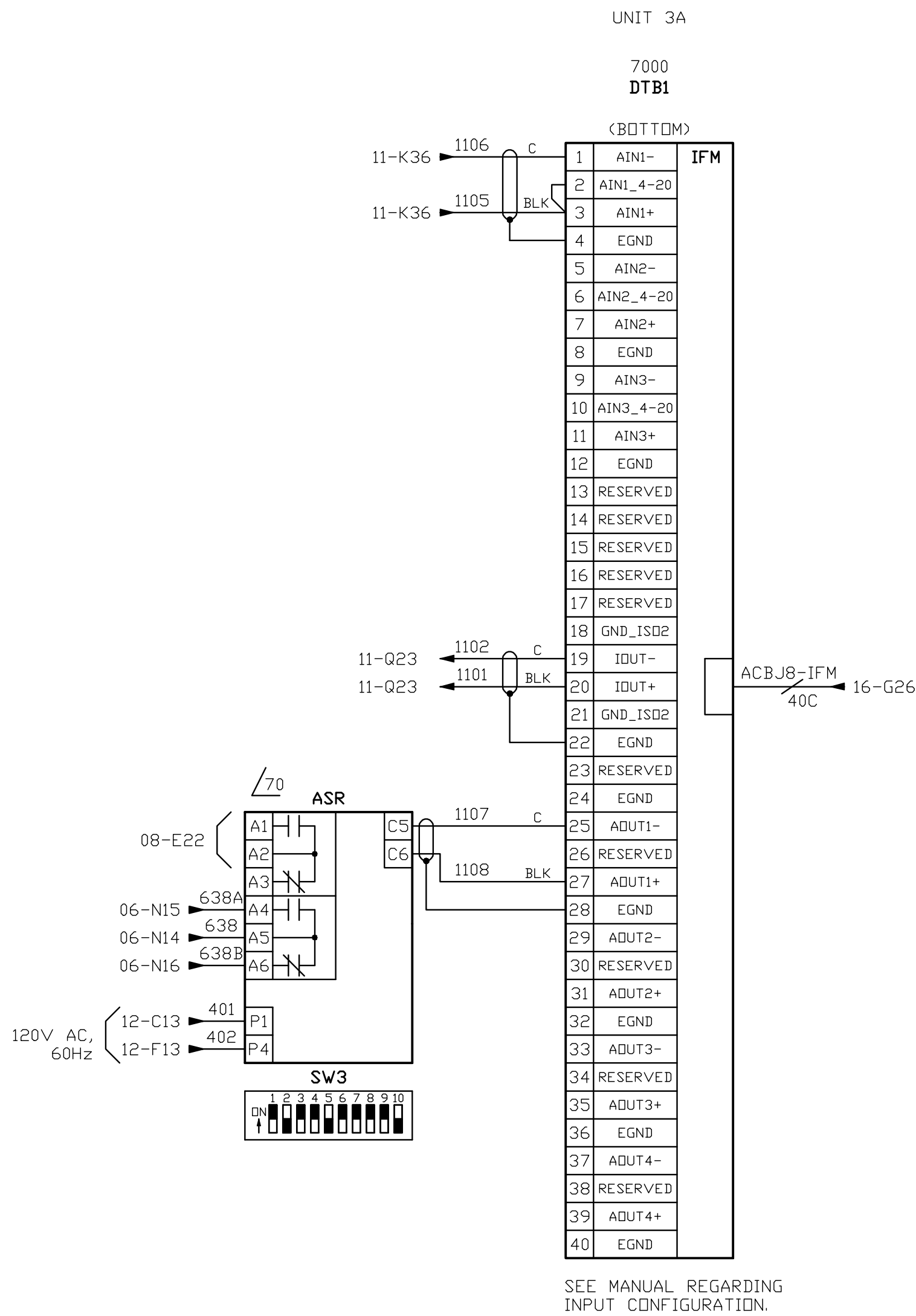
SEE SHT.2

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	M.VARGAS	2013-06-25	2	PRELIMINARY		JF	2013-05-14	CARRIER CORPORATION					SIZE XXXA				OF 18	
	DRAWN	DATE	REV	REVISION		INT	DATE	DISTRIBUTOR					REV 3					
	J. FILIPOVIC	2013-04-29	3	PRELIMINARY		JF	2013-06-25	PROJECT					CARRIER-001-13E					



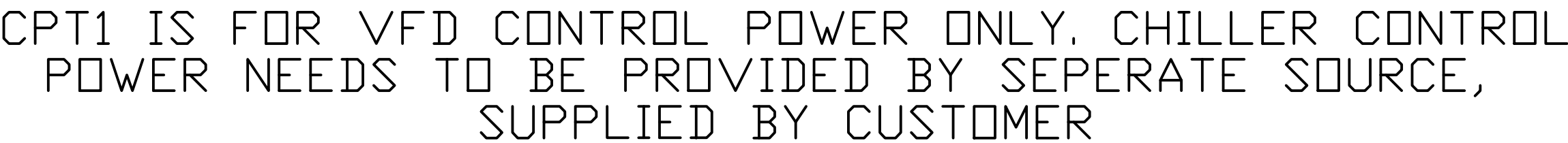
MEDIUM VOLTAGE DRIVE

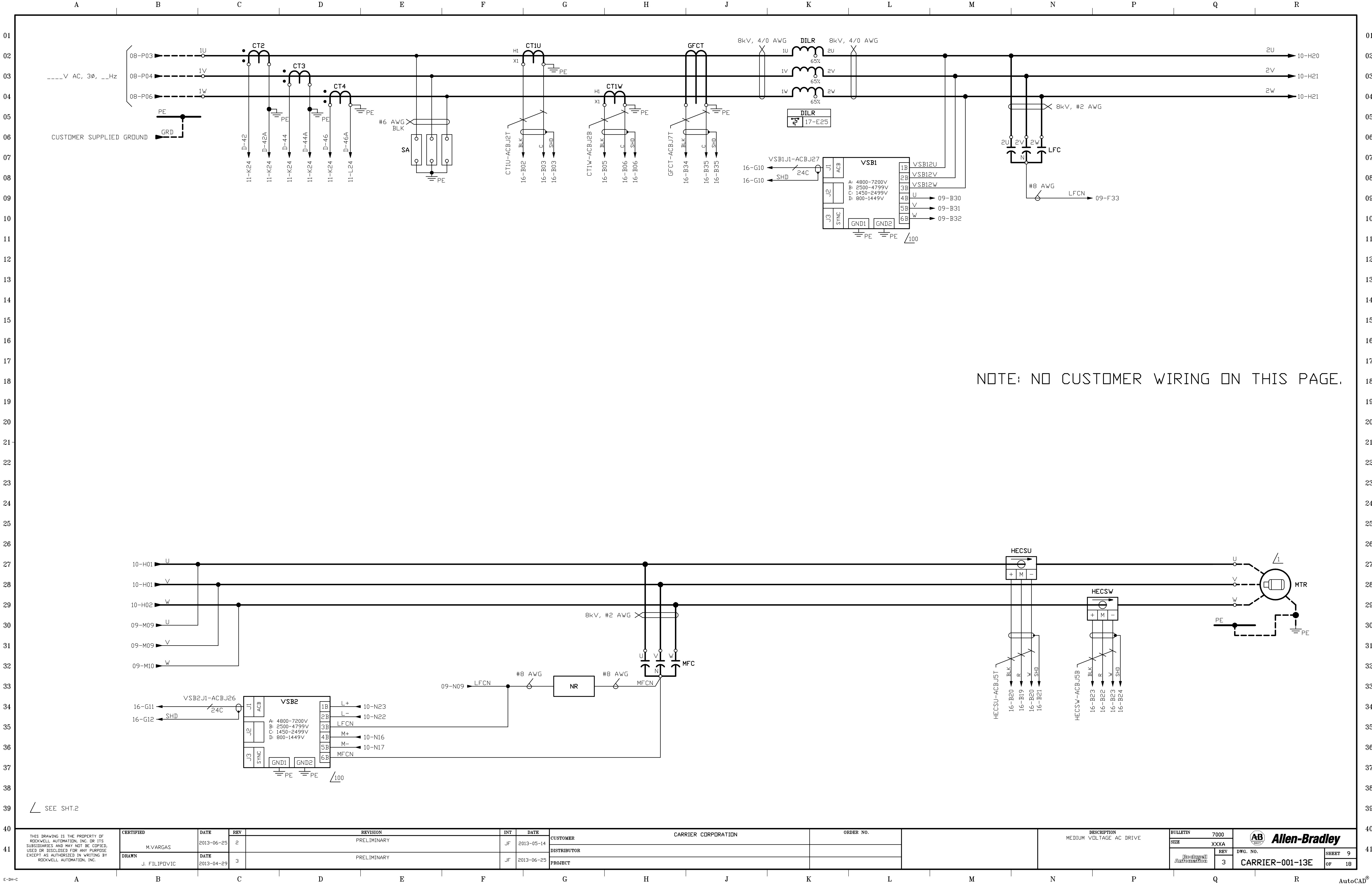
ROCKWELL AUTOMATION USE TERMINAL BLOCKS



SEE SHT.2

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	M.VARGAS	2013-06-25	2	PRELIMINARY	JF	2013-05-14	DISTRIBUTOR				SIZE	XXXA			
	DRAWN	DATE	REV	REVISION	INT	DATE	PROJECT					REV		DWG. NO.	SHEET
	J. FILIPOVIC	2013-04-29	3	PRELIMINARY	JF	2013-06-29					3	CARRIER-001-13E		7	
														OF	18





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	M.VARGAS	2013-06-25	2	PRELIMINARY		JF	2013-05-14	CARRIER CORPORATION						7000									
	DRAWN	DATE	REV	REVISION		INT	DATE	DISTRIBUTOR						XXXA									
	J. FILIPOVIC	2013-04-29	3	PRELIMINARY		JF	2013-06-25	PROJECT						3									

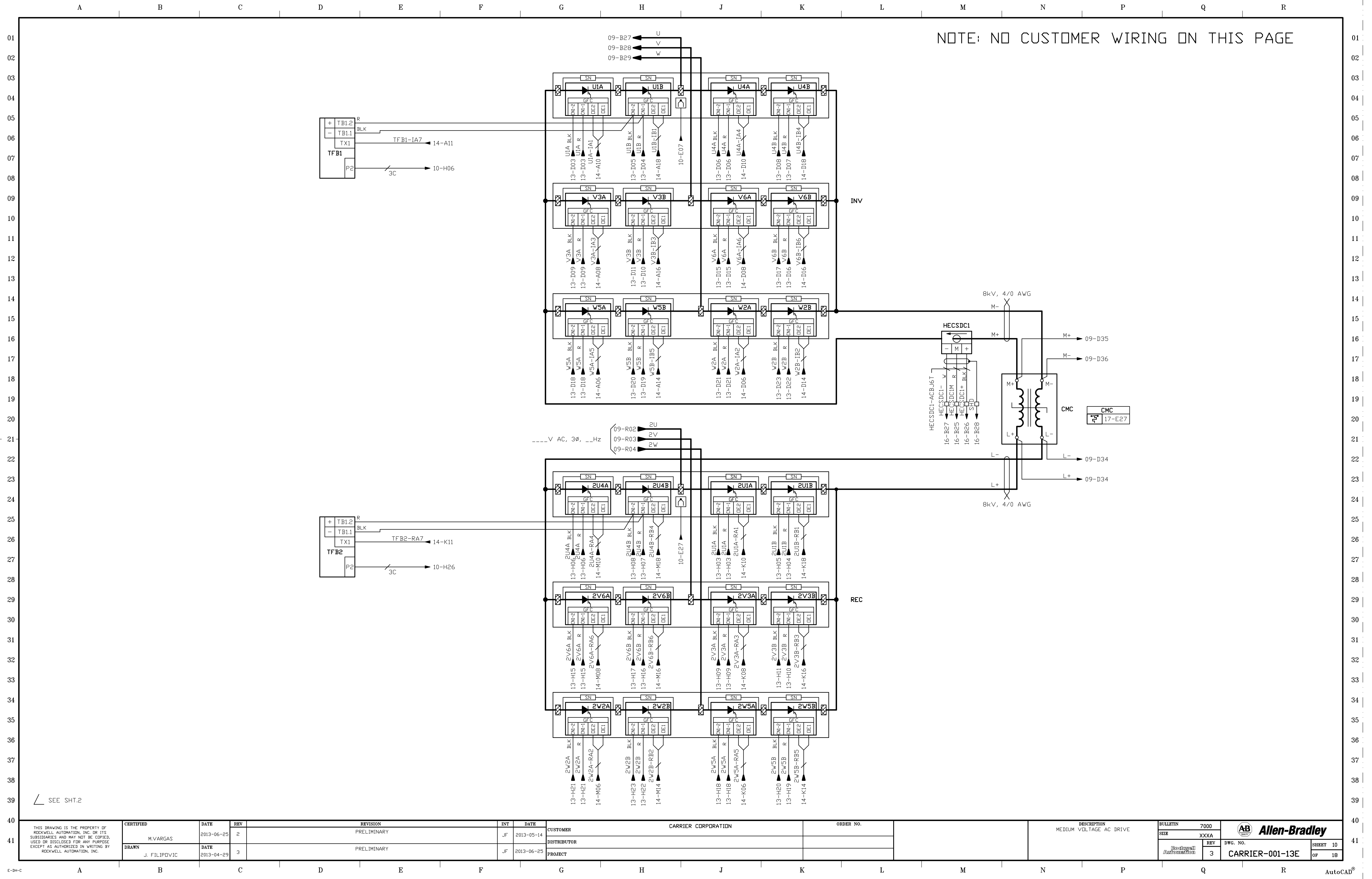
Rockwell
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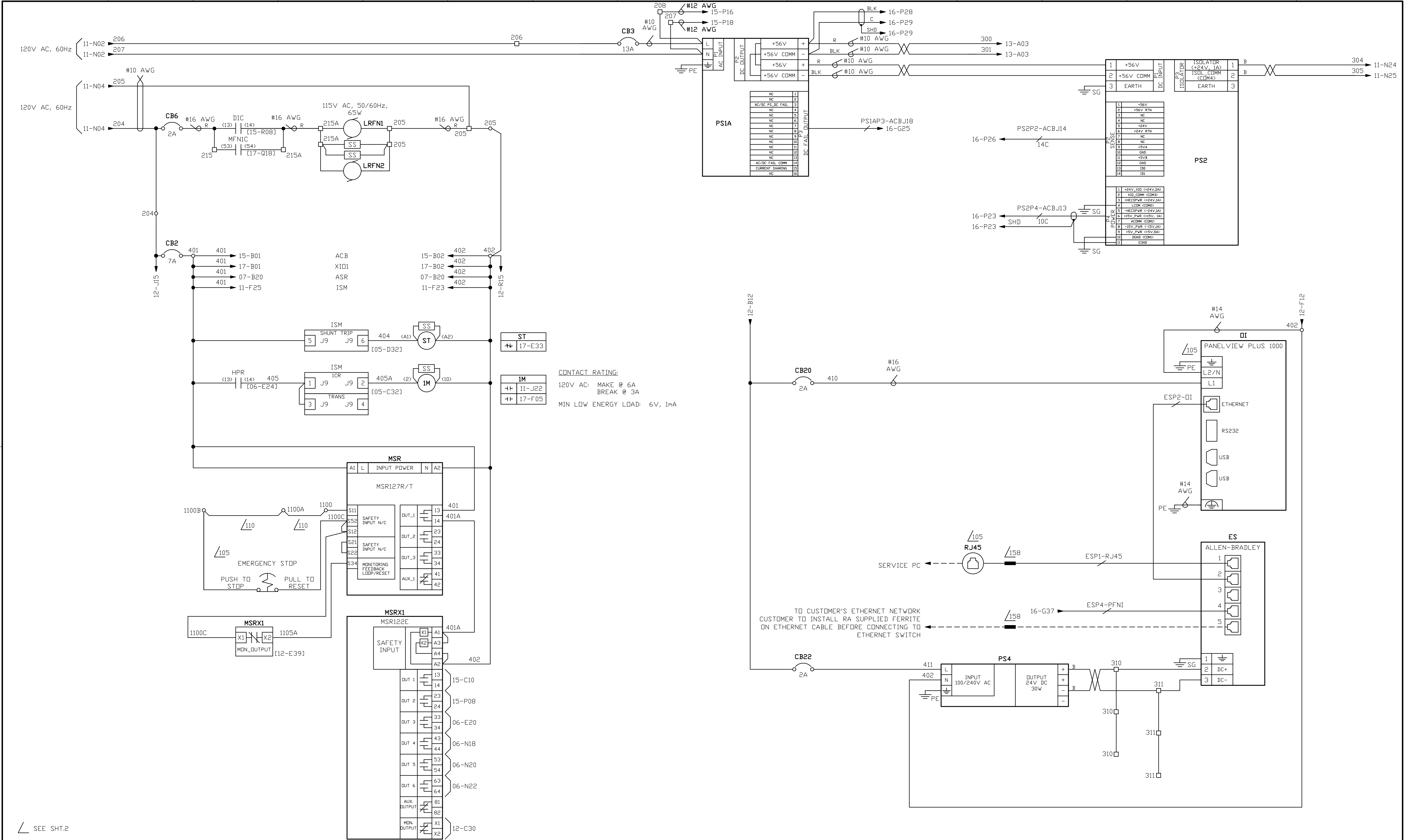
CARRIER-001-13E

OF 18

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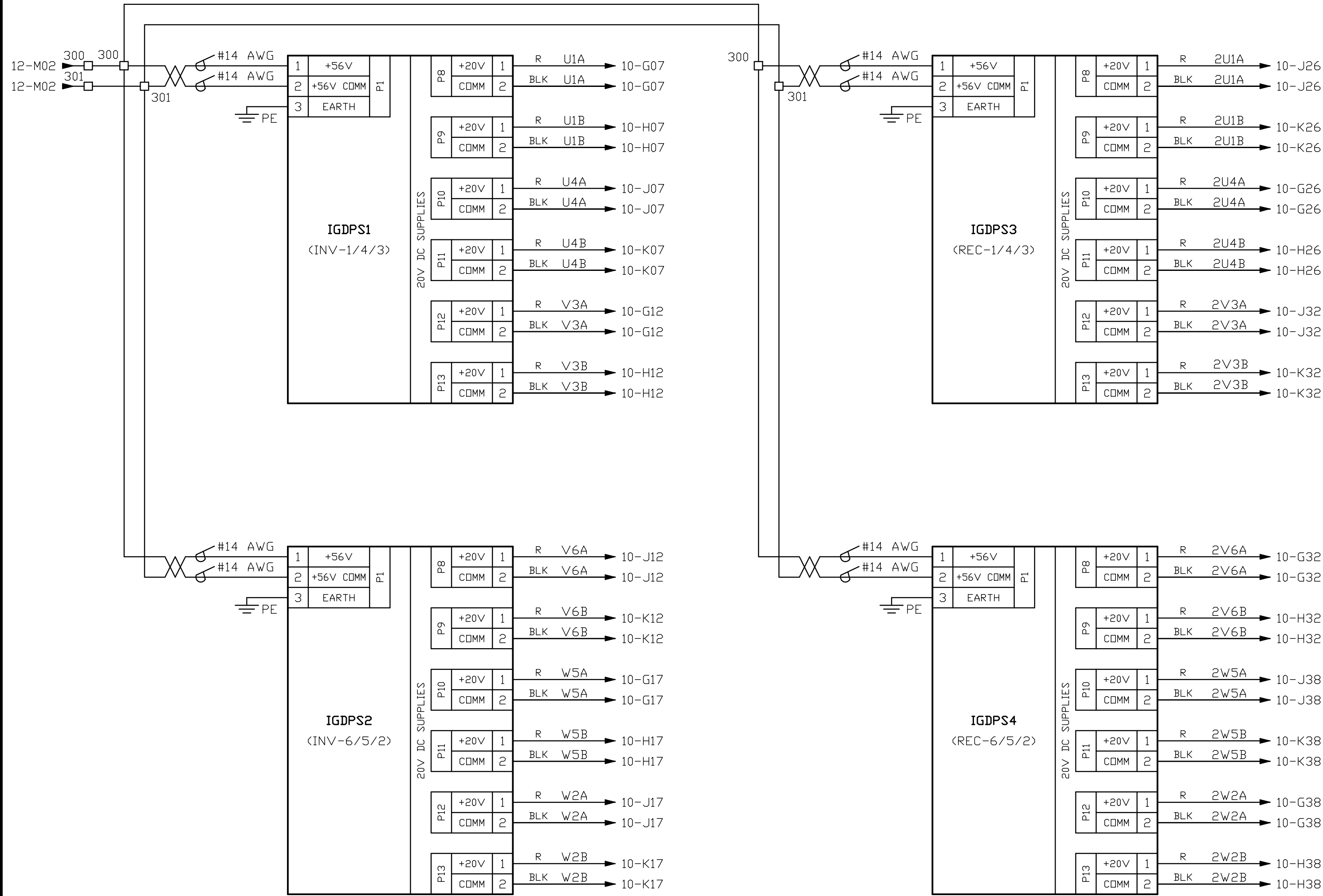


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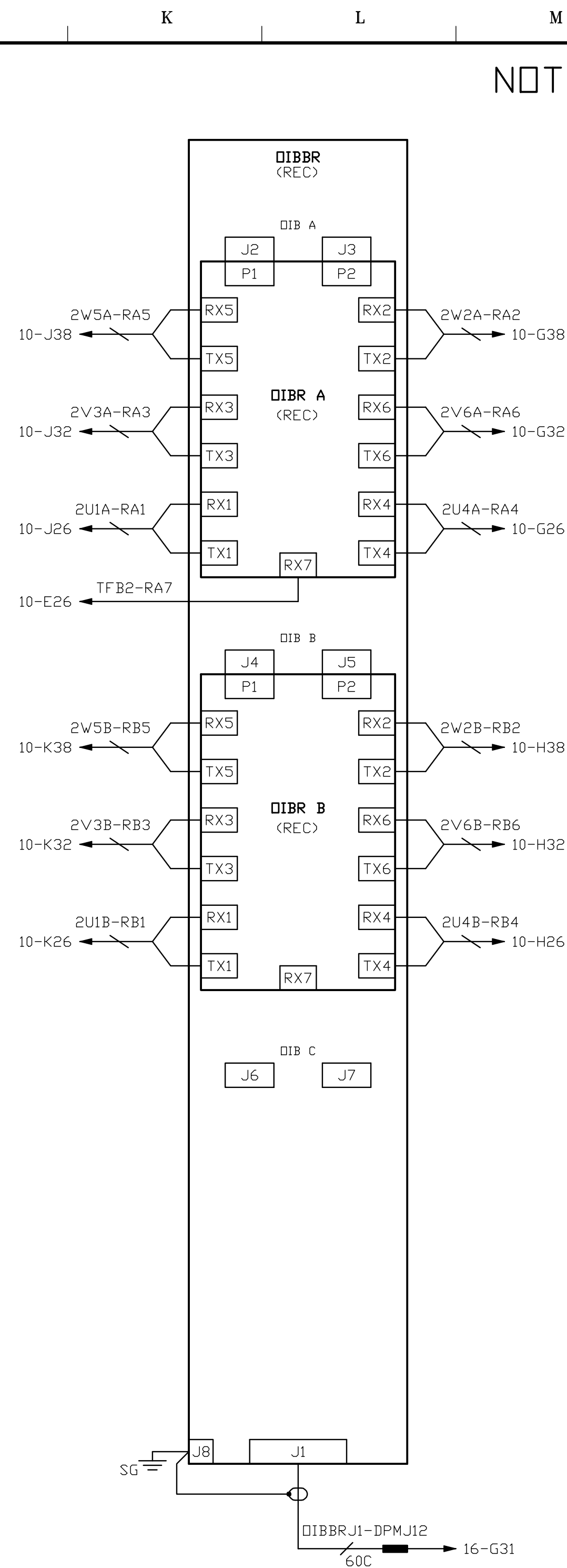
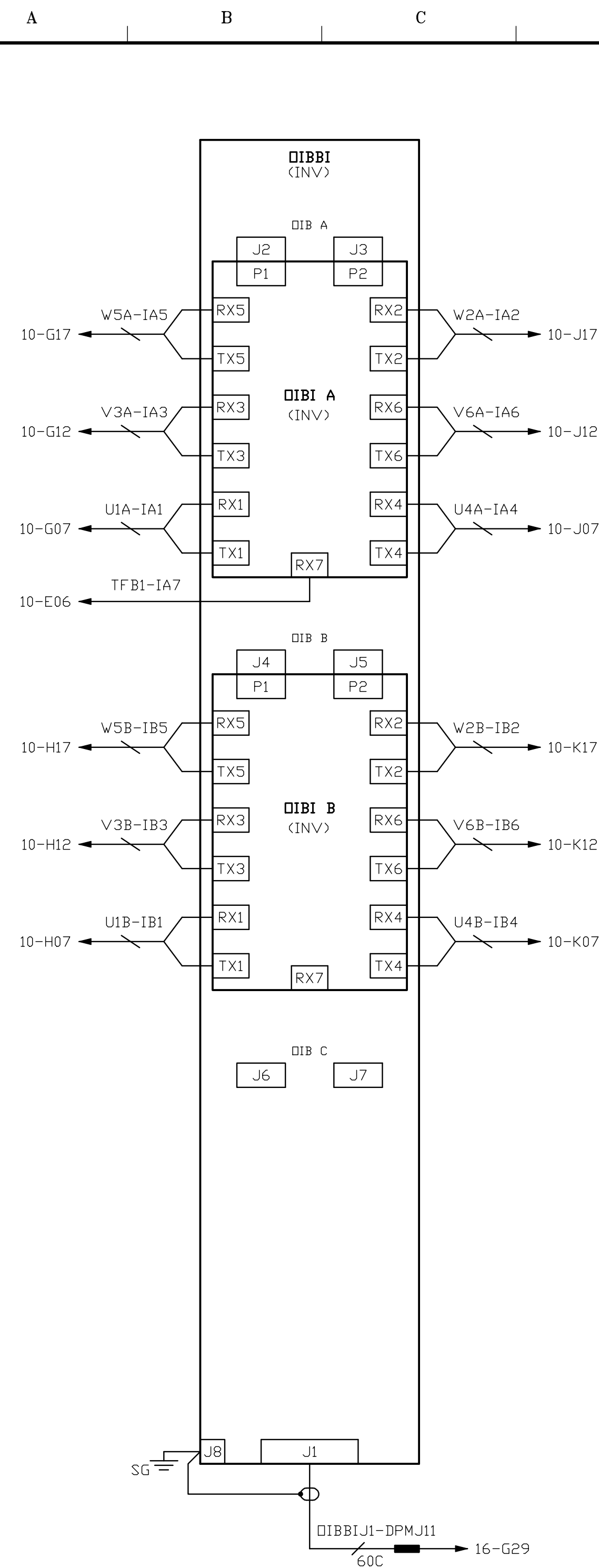


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	M.VARGAS	2013-06-25	2	PRELIMINARY	JF	2013-05-14	DISTRIBUTOR				SIZE	XXXX			
	DRAWN	DATE		PRELIMINARY	JF	2013-06-25	PROJECT					REV	DWG. NO.	SHEET 12	
	J. FILIPOVIC	2013-04-29	3									3	CARRIER-001-13E	OF 18	

NOTE: NO CUSTOMER WIRING ON THIS PAGE.

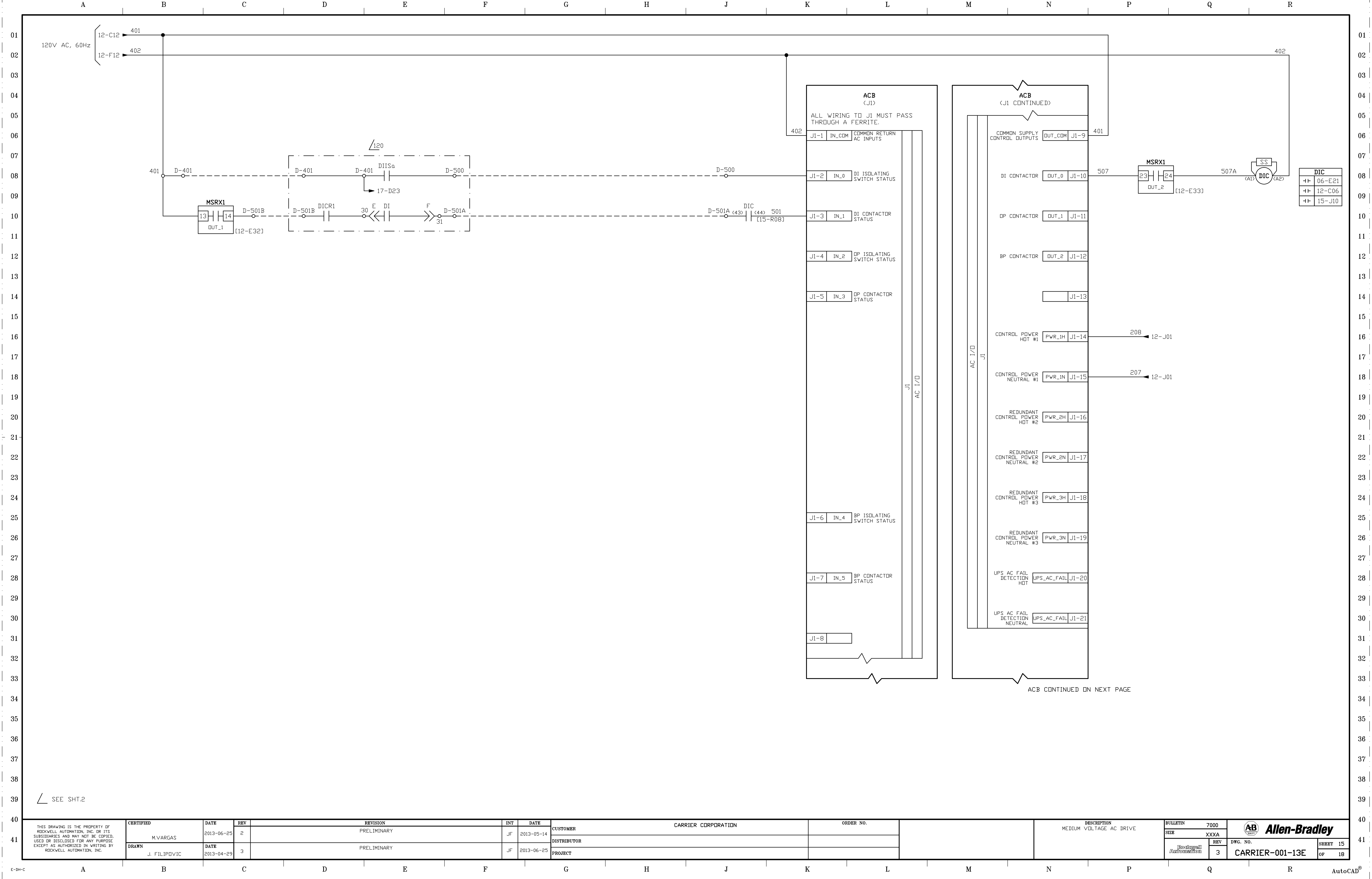


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	DRAWN	DATE		PRELIMINARY		JF	2013-06-25	DISTRIBUTOR						3		CARRIER-001-13E						OF	
	J. FILIPOVIC	2013-04-29	3					PROJECT														18	



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	DRAWN	DATE	REV	REVISION	INT	DATE	PROJECT				REV	1		DWG. NO.	SHEET 14
	J. FILIPOVIC	2013-04-29	3	PRELIMINARY	JF	2013-06-25					3			CARRIER-001-13E	OF 18



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AutoCAD®

NOTE: NO CUSTOMER WIRING ON THIS PAGE

ACB CONTINUED FROM PREVIOUS SHEET

ACB
(J2-J8, J18-J28, J30-J34)

DPM

PFNI

MOD5273

ETHERNET

USB

DIM

DATA PORT

RECTIFIER GATING

BRIDGE

BRIDGE

INVERTER GATING

BRIDGE

BRIDGE

ANALOG I/O

J18

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J22

XIO

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RS485

UPS

J24

SYNC

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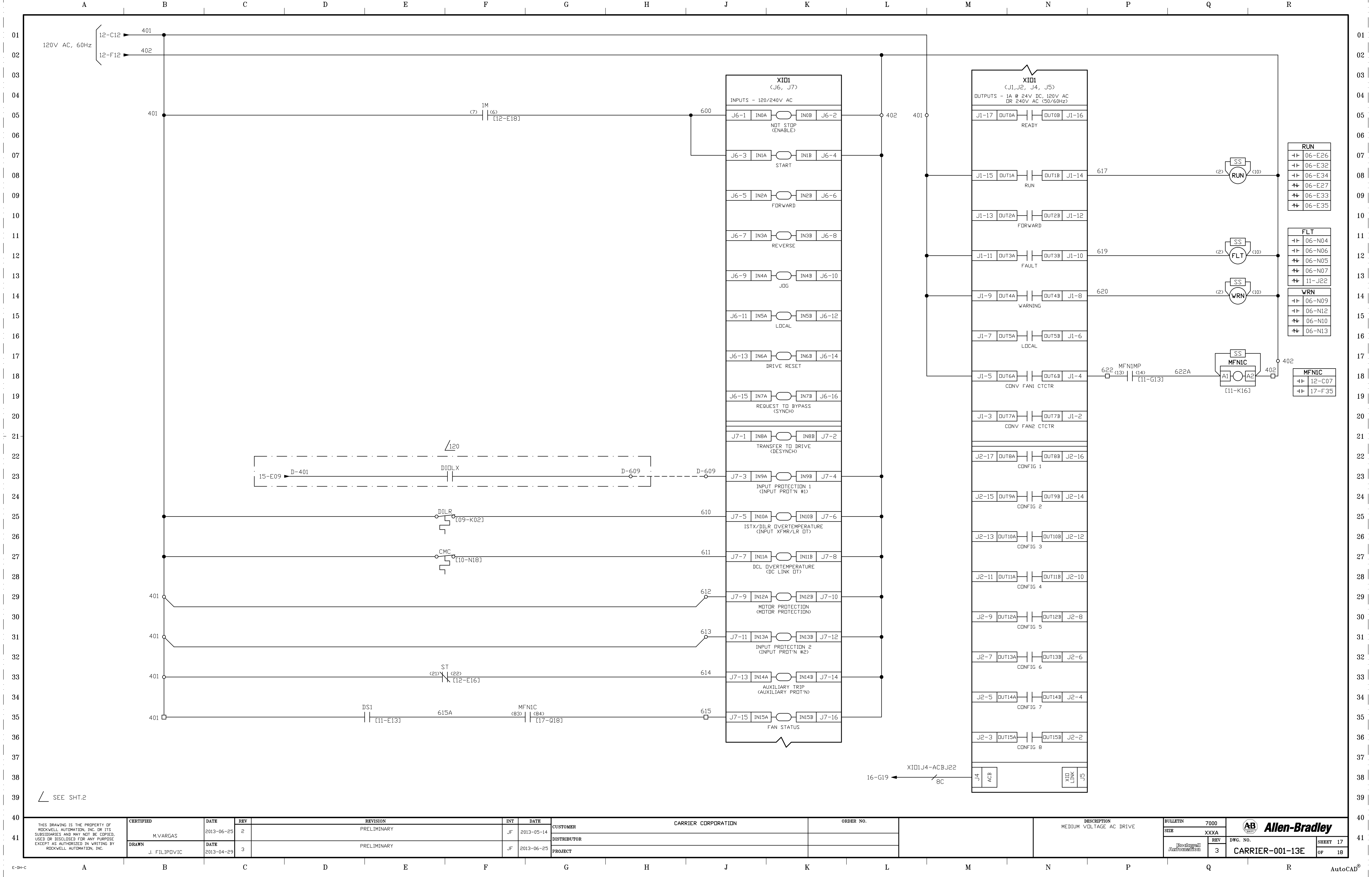
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41	THIS DRAWING IS THE PROPERTY OF ROCKWELL AUTOMATION, INC. OR ITS SUBSIDIARIES AND MAY NOT BE COPIED, USED OR DISCLOSED FOR ANY PURPOSE EXCEPT AS AUTHORIZED IN WRITING BY ROCKWELL AUTOMATION, INC.	CERTIFIED	DATE	REV	REVISION	INT	DATE	CUSTOMER	CARRIER CORPORATION	ORDER NO.	DESCRIPTION MEDIUM VOLTAGE AC DRIVE	BULLETIN 7000		
		M.VARGAS	2013-06-25	2	PRELIMINARY	JF	2013-05-14	DISTRIBUTOR				SIZE XXXA		
		DRAWN	DATE	3	PRELIMINARY	JF	2013-06-25	PROJECT				REV 3		
		J. FILIPOVIC	2013-04-29										DWG. NO. CARRIER-001-13E	
													SHEET 16 OF 18	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R								
WIRING				SWITCHES AND INPUT DEVICES				OUTPUT DEVICES				RESISTORS, CAPS, WINDINGS AND GROUND				PROTECTION									
CONDUCTOR, OR CONDUCTIVE PATH						SWITCH, SINGLE THROW								CAPACITOR						CIRCUIT BREAKER, CONTROL/POWER					
CONDUCTOR, ASSOCIATED OR FUTURE (NOT SUPPLIED BY ROCKWELL AUTOMATION)						SWITCH, TOGGLE (MAINTAINED POSITION) TRANSFER, SINGLE POLE								RESISTOR, GENERAL						FUSE, CONTROL/POWER					
TEMPORARY WIRING						PUSHBUTTON								RESISTOR, ADJUSTABLE (POTENTIOMETER)						OVERLOAD RELAY, THERMAL					
COPPER BUS BAR						SWITCH, MUSHROOM HEAD, (MAINTAINED)								REACTOR, SATURABLE CORE						SURGE SUPPRESSOR					
MECHANICALLY CONNECTED						CONTACT								WINDING						SWITCH, DISCONNECT (FUSED)					
CABLE, MULTICONDUCTOR						ON-DELAY TIMED CONTACT								TRANSFORMER, WITH MAGNETIC CORE						SWITCH, DISCONNECT (NON FUSED)					
CONDUCTOR, CROSSING OF PATHS OR CONDUCTORS NOT CONNECTED						OFF-DELAY TIMED CONTACT								TRANSFORMER, CURRENT						VARISTOR					
CONDUCTOR, JUNCTION OF CONNECTED PATHS, CONDUCTORS OR WIRES						SWITCH, FLOW - ACTUATED, CLOSES ON INCREASE IN FLOW								HALL EFFECT CURRENT SENSOR						THERMOCOUPLE					
CONDUCTOR, SHIELDED SINGLE OR MULTICONDUCTOR						SWITCH, LIQUID LEVEL ACTUATED (FLDAT) CLOSING ON RISING LEVEL								GROUND						HEATSINK					
CONDUCTORS, TWISTED						SWITCH, PRESSURE OR VACUUM OPERATED CLOSING ON RISING PRESSURE								FERRITE						MISCELLANEOUS					
WIRE GAUGE MARKER						SWITCH, TEMPERATURE ACTUATED, OPENING ON RISING TEMPERATURE								RECEPTACLE						IEEE NUMBER FOR PROTECTIVE DEVICE					
CONNECTOR, SEPARABLE OR JACKS ENGAGED						SWITCH, SELECTOR (MULTIPOSITION) WITH CONTACT CLOSED INDICATOR X - INDICATES CONTACTS CLOSE								GENERATOR						KEY INTERLOCK ON ISOLATION SWITCH OR BREAKER					
TERMINAL						SWITCH, SELECTOR (MULTIPOSITION) WITH PUSHBUTTON TYPE CONTACT MECHANISM X - INDICATES CONTACTS CLOSED								POWER ELECTRONIC DEVICES						KEY INTERLOCK ON MV DOOR					
TERMINAL (ROCKWELL AUTOMATION USE ONLY)						PLC INPUT								DIODE, SEMICONDUCTOR						NOTE NUMBER INDICATOR					
TERMINAL BLOCKS						PLC INPUT								RECTIFIER SILICON CONTROLLED						CONTACT LOCATION DESCRIPTION					
TERMINAL BLOCKS						PLC INPUT								RECTIFIER FULL WAVE BRIDGE						RELAY LOCATION DESCRIPTION					
WIRED TO / FROM DESTINATION (ARROW DIRECTION RELATIVE TO FLOW OF DRAWING ONLY)																									