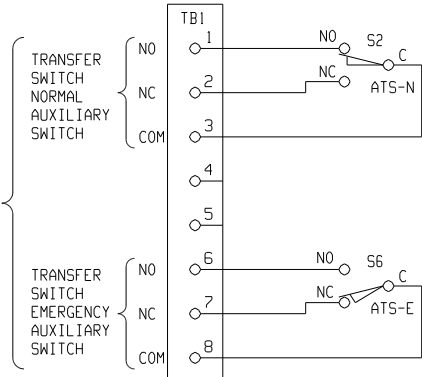


CUSTOMER CONNECTIONS

AUXILIARY CONTACTS

MOUNTED ON FRONT OF TRANSFER SWITCH. AVAILABLE ON ALL UNITS.

FOR CUSTOMER USE
TRANSFER SWITCH
AUXILIARY CONTACTS
RATED: 10 AMPS, 250 VAC

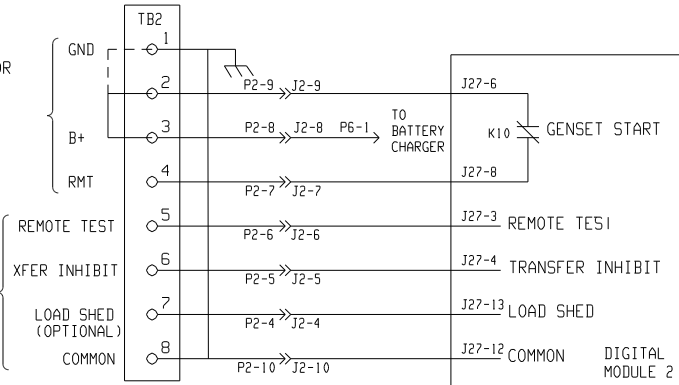


UTILITY TO GENERATOR TO ENGINE GENERATOR CONTROL

REFER TO THE INTERCONNECTION DRAWING FOR PROPER INSTALLATION OF WIRING AND IF NEEDED, JUMPER LOCATION, BETWEEN THE GENSET CONTROL AND TRANSFER SWITCH.

ON PARALLELING SYSTEMS. REFER TO SYSTEM INTERCONNECTION DRAWING FOR CORRECT WIRING.

FOR CUSTOMER USE
TO USE REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED CONNECT AN OPEN CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). CLOSE THE CONTACT TO ACTIVATE THE FUNCTION. NOTE THAT LOAD SHED IS OPTIONAL AND MUST BE INSTALLED IN ORDER TO USE.

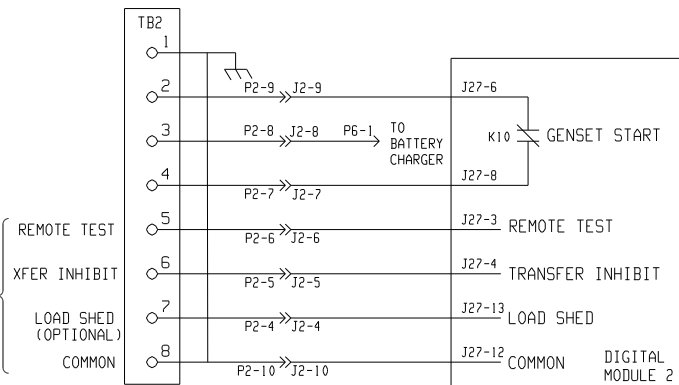


UTILITY TO UTILITY

FOR CUSTOMER USE

TO USE REMOTE TEST, TRANSFER INHIBIT AND LOAD SHED CONNECT AN OPEN CONTACT BETWEEN THE APPLICABLE TERMINAL AND COMMON (TB2-8). CLOSE THE CONTACT TO ACTIVATE THE FUNCTION. NOTE THAT LOAD SHED IS OPTIONAL AND MUST BE INSTALLED IN ORDER TO USE.

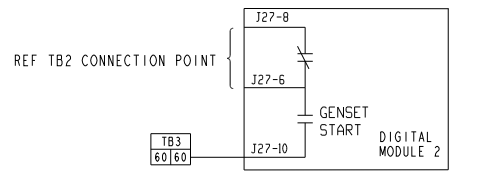
NOT AVAILABLE ON OTCSE MODEL



ALTERNATE ENGINE GENERATOR CONTROL

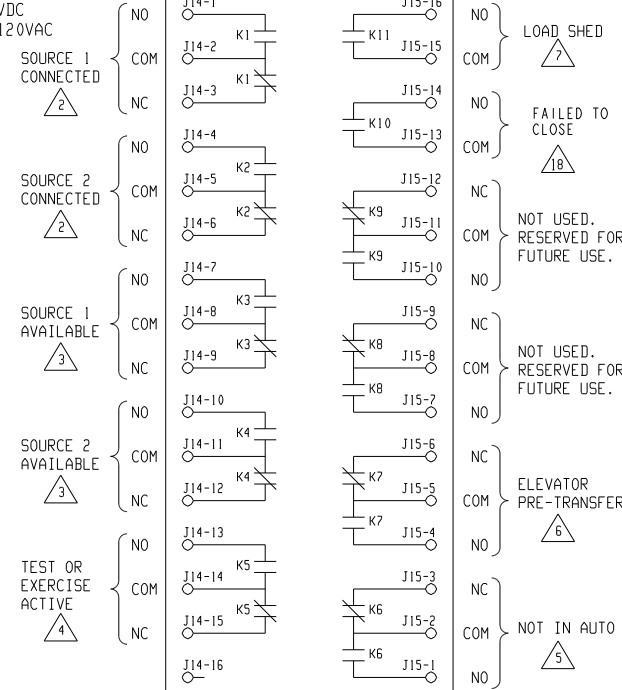
REFER TO THE INTERCONNECTION DRAWING FOR PROPER INSTALLATION OF WIRING AND, IF NEEDED, JUMPER LOCATION, BETWEEN THE GENSET CONTROL AND TRANSFER SWITCH.

NOTE THAT J27-6 IS COMMON BETWEEN GENSET START NORMALLY OPEN AND STANDARD NORMALLY CLOSED CONTACTS



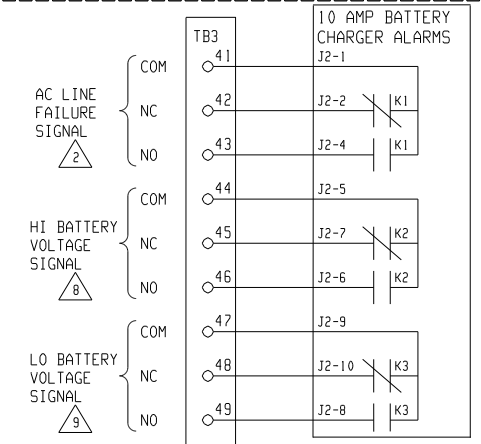
OPTIONAL: RELAY MODULE

CONTACTS RATED:
2 AMPS AT 30 VDC
0.60 AMPS AT 120VAC



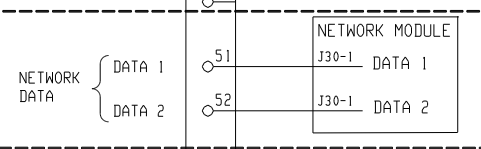
OPTIONAL: 10 AMP BATTERY CHARGER ALARMS

CONTACTS RATED:
4 AMPS AT 30 VDC OR
120VAC MAX



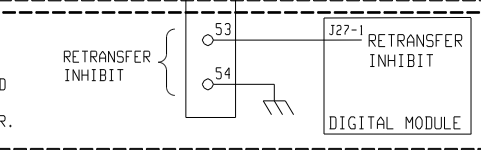
OPTIONAL: NETWORK MODULE

USE TWISTED PAIR



OPTIONAL: RETRANSFER INHIBIT

CONNECT A JUMPER OR A CLOSED CONTACT BETWEEN TB3-53 AND TB3-54 TO INHIBIT RETRANSFER.



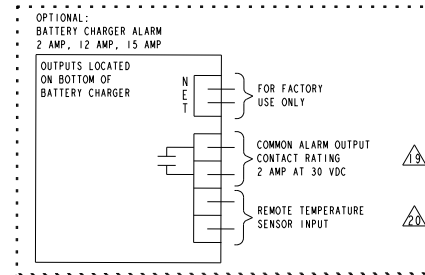
REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178421	H	1	ZONE A6, ADD CONNECTIONS FOR ALTERNATE ENGINE GENERATOR CONTROL	MSC LNK	T.BEAUCAGE		10JUL18
		2	ZONE B2, TEXT "INVERTER" WAS "INVERTER"	MSC LNK	T.BEAUCAGE		10JUL18
		3	SITE CODE "PGF" WAS "PGA"	MSC LNK	T.BEAUCAGE		10JUL18
		4	SEE SHEET 4	MSC LNK	T.BEAUCAGE		10JUL18
		5	SEE SHEET 4	MSC LNK	T.BEAUCAGE		10JUL18
		6	SEE SHEET 4	MSC LNK	T.BEAUCAGE		10JUL18
		7	SEE SHEET 5	MSC LNK	T.BEAUCAGE		10JUL18

NOTES:

- TB1 AND TB2 ARE MOUNTED ON THE FRONT OF THE TRANSFER SWITCH. TB3 IS MOUNTED ON THE LEFT INSIDE PANEL OF THE ENCLOSURE.
- SHOWN WITH SOURCE NOT CONNECTED.
- SHOWN WITH SOURCE NOT AVAILABLE.
- SHOWN NOT ACTIVE. CONTACTS CHANGE STATE DURING TEST OR EXERCISE PERIOD.
- SHOWN WITH CONTROL IN AUTOMATIC MODE. CONTACTS CHANGE STATE WHEN CONTROL IS NOT IN AUTO.
- SHOWN NOT ACTIVE. CONTACTS CHANGE STATE FOR AN ADJUSTABLE TIME BEFORE LOAD TRANSFER OCCURS.
- SHOWN NOT ACTIVE. CONTACTS CHANGE STATE DURING LOAD SHED.
- SHOWN UNDER NORMAL BATTERY VOLTAGE CONDITION. CONTACTS TRANSFER UNDER A HIGH BATTERY VOLTAGE CONDITION.
- SHOWN UNDER A LOW BATTERY VOLTAGE CONDITION.
- SEE SHEET 2.
- SEE SHEET 2.
- SEE SHEET 2.
- SEE SHEET 4.
- SEE SHEET 4.
- SEE SHEET 5.
- SEE SHEET 5.
- SHOWN NOT ACTIVE. CONTACT CHANGES STATE DURING A FAILED TO TRANSFER OR FAILED TO TRANSFER EVENT.
- THE FOLLOWING WILL CAUSE A BATTERY CHARGER ALARM OUTPUT:
LOW BATTERY VOLTAGE
HIGH BATTERY VOLTAGE
LOW AC INPUT VOLTAGE
HIGH AC INPUT VOLTAGE
OVERCURRENT
HIGH CHARGER TEMPERATURE
BATTERY FAILURE
HIGH BATTERY TEMPERATURE:
NOT AVAILABLE ON 2 AMP CHARGER
- USE THE INVERTER REMOTE TEMPERATURE PROBE. (PART NO. 0193-0530).
- SEE SHEET 2.

LEVEL 2 CONTROL
DISPLAY MODULE
3 AND 4 POLE
OTPC 40-600 AMP, OTCPCSE 40-125 AMP &
OTPCSE 300-600 AMP
120 VOLT 1 PHASE L-N
240 VOLT 1 PHASE
190 VOLT 3 PHASE
208 VOLT 3 PHASE
220 VOLT 3 PHASE
240 VOLT 3 PHASE
380 VOLT 3 PHASE
415 VOLT 3 PHASE
440 VOLT 3 PHASE
480 VOLT 3 PHASE

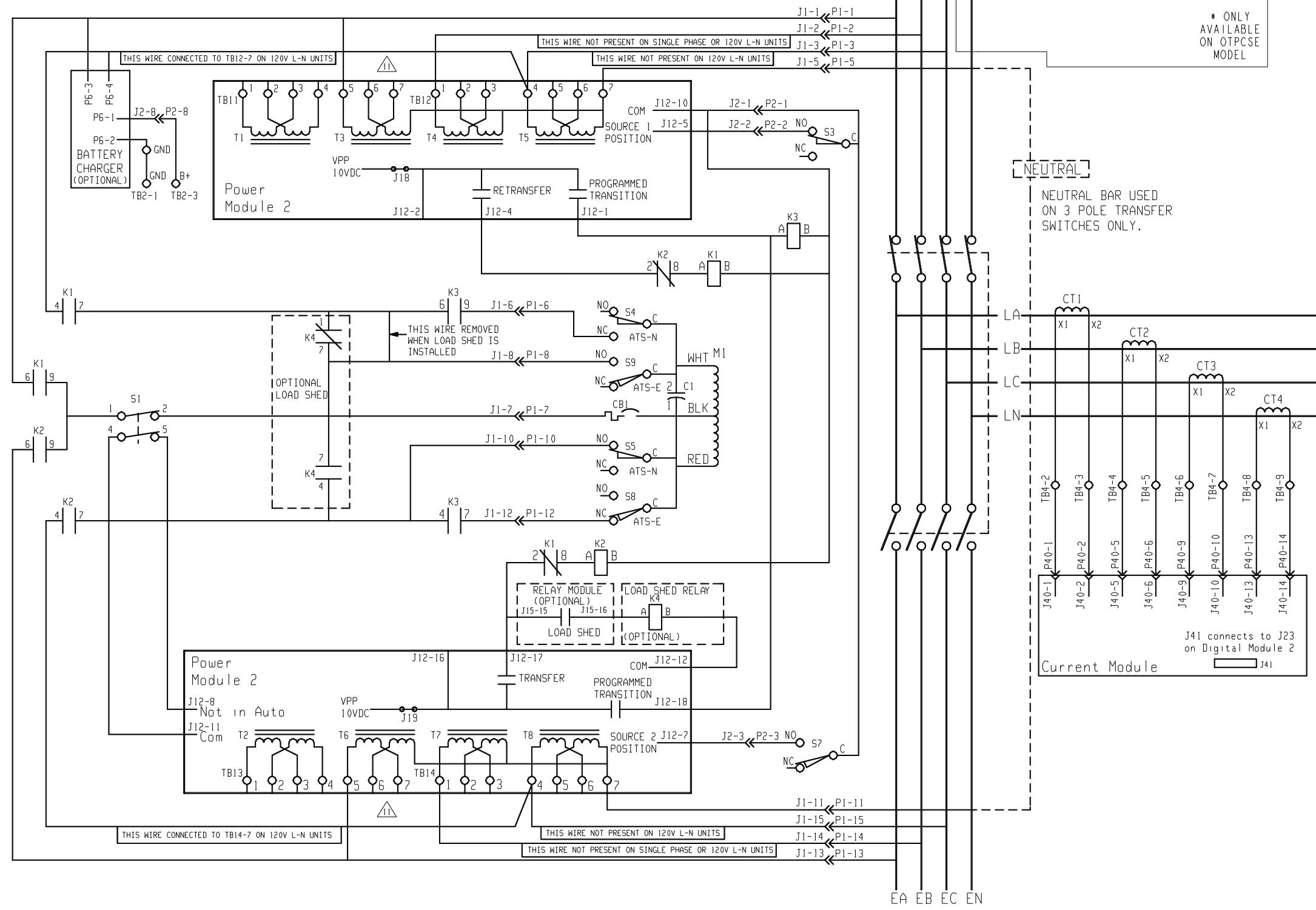
OPTIONS:
NETWORK MODULE
LOAD SHED
RELAY MODULE
BAR GRAPH
LOAD CURRENT MODULE
BATTERY CHARGER
BATTERY CHARGER ALARMS
RETRANSFER INHIBIT



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS				SW TO	DRN	S D MORE	CUMMINS POWER GENERATION	
DIM	X ± I	0.00 - 4.99 +0.15/-0.08	DO NOT SCALE PRINT	CKD	I A MAHADESHWAR			WD-TRANSFER SWITCH
	.X ± I	5.00 - 9.99 +0.20/-0.10		APVD	MILLER			
	.XX ± I	10.00 - 17.49 +0.25/-0.13		DATE	26NOV04			
	.XXX ± I	17.50 - 24.99 +0.30/-0.13						
ANG TOL	SCALE	THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.		FOR INTERPRETATION OF DIMENSIONS AND TOLERANCING, SEE ANSI Y14.5M-1982		FIRST USED ON OTC 40 600 AMP 120-480 VAC		
± 1.0°	1:1			SITE CODE		PGF	0626_2311	
							DATE	10/07/18
							CAD SHEET	1 of 5

REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178421	H	-	---	MSC	LNK	T.BEAUCAGE	10 JUL 18

SCHMATIC DIAGRAM

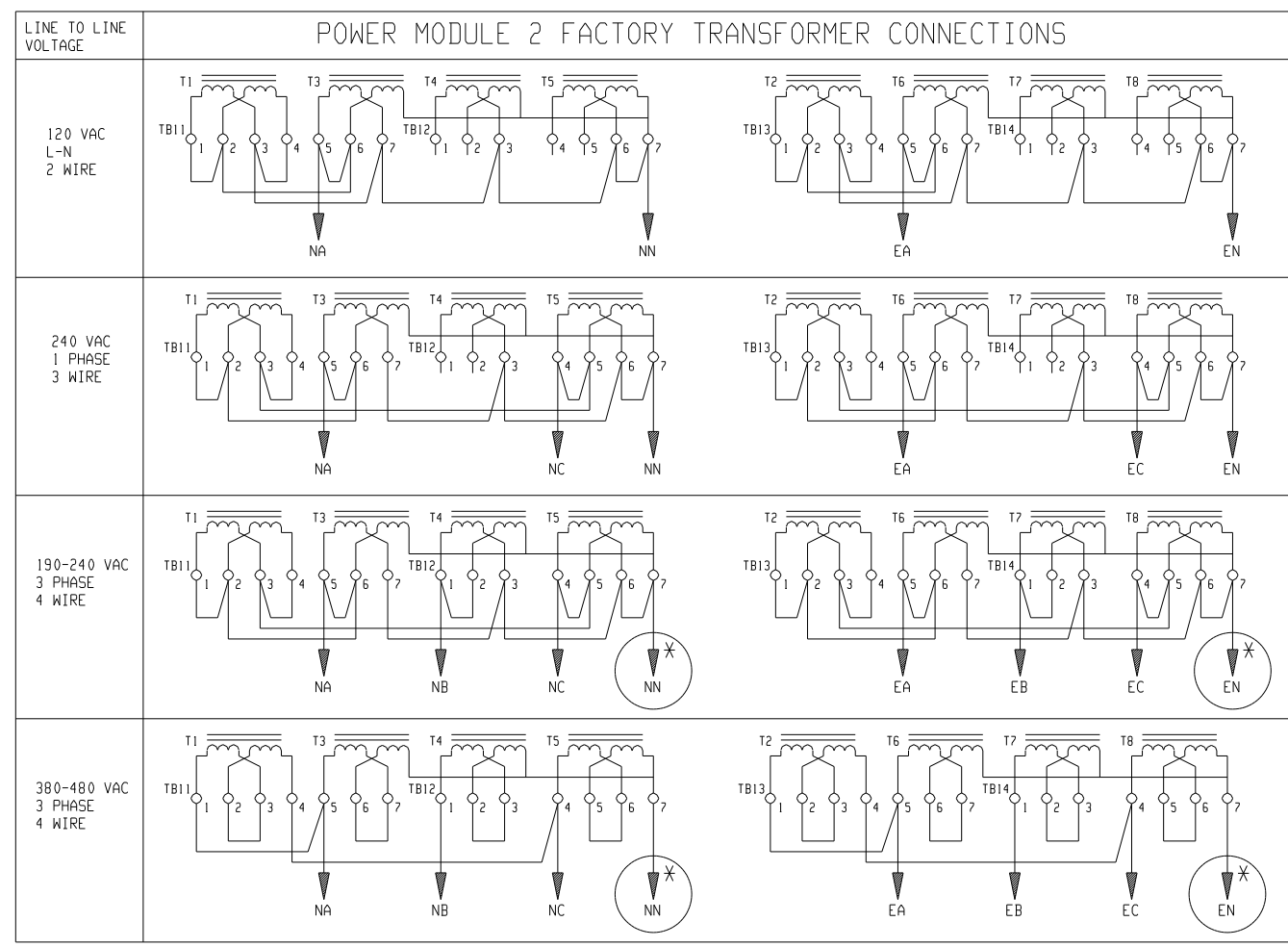


- * ONLY AVAILABLE ON OTPCSE MODEL
- NEUTRAL BAR USED ON 3 POLE TRANSFER SWITCHES ONLY.
- K3 PROGRAMMED TRANSITION RELAY
- K1 TRANSFER TO NORMAL RELAY
- CB MAIN CIRCUIT BREAKER
- M1 LINEAR MOTOR
- C1 MOTOR RUN CAPACITOR
- CB1 CIRCUIT BREAKER
- S1 LINEAR MOTOR DISABLE
- K2 TRANSFER TO EMERGENCY RELAY
- K4 LOAD SHED RELAY

- NOTES:
10. ALL DEVICES ARE SHOWN DE-ENERGIZED, WITH THE TRANSFER SWITCH CLOSED TO NORMAL. 4 POLE TRANSFER SWITCH SHOWN. ON 3 POLE MODELS THE SWITCHED NEUTRAL POLE IS REPLACED WITH A SOLID NEUTRAL BAR.
 11. SEE SHEET 3 FOR TRANSFORMER PRIMARY JUMPERS.
 12. FOR SINGLE PHASE UNITS:
120/240, 3 WIRE - CONNECT POWER CABLES TO A AND C
120 L-N, 2 WIRE - CONNECT POWER CABLES TO A AND NEUTRAL
 21. FOR OTPCSE MODEL, LIST OF MAIN CIRCUIT BREAKER TYPE SHOWN BELOW:
SWITCH RATING MAIN CIRCUIT BREAKER TYPE
40-125A SQUARE D, TYPE "HG"
300-600A SQUARE D, TYPE "PJ"

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		DRN	S D MORE		CUMMINS POWER GENERATION WD-TRANSFER SWITCH
DO NOT SCALE PRINT		CKD	I A MAHADESHWAR		
DIM	TOLERANCE	DATE	26NOV04	SITE CODE	
ANG TOL	SCALE	THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.		PGF	0626_2311
± 1.0°	1:1	FOR INTERPRETATION OF DIMENSIONS AND TOLERANCING, SEE AND: Y14-SM-1982		DRW	2 OF 5

REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178421	H	-	---	MSC	LNK	T.BEAUCAGE	10 JUL 18



SEE 0626-2312 FOR 600 VOLT CONNECTIONS.

***CONNECTIONS FOR SPECIAL WYE AND DELTA APPLICATIONS**

APPLICATION	POWER MODULE WIRING CHANGES
4-WIRE, 3-PHASE WYE WITH GROUNDED NEUTRAL	NO WIRING CHANGES NECESSARY THIS IS THE FACTORY CONFIGURATION
3-WIRE, 3-PHASE DELTA OR WYE WITH NO NEUTRAL OR UNGROUNDED NEUTRAL	1. DISCONNECT THE NEUTRAL SENSING WIRES FROM TB12-7 & TB14-7 ON THE POWER MODULE.
4-WIRE, 3-PHASE DELTA WITH GROUNDED NEUTRAL OR 3-WIRE, 3 PHASE DELTA WITH A GROUNDED CORNER.	1. DISCONNECT THE NEUTRAL SENSING WIRES FROM TB12-7 & TB14-7 ON THE POWER MODULE.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		SHW TO	DWN S D MORE	CUMMINS POWER GENERATION										
<table border="1"> <tr> <th>DIM</th> <th>TOLERANCE</th> </tr> <tr> <td>X ±</td> <td>0.00-4.99 +0.15/-0.08</td> </tr> <tr> <td>.X ±</td> <td>5.00-9.99 +0.20/-0.10</td> </tr> <tr> <td>.XX ±</td> <td>10.00-17.49 +0.25/-0.13</td> </tr> <tr> <td></td> <td>17.50-24.99 +0.30/-0.13</td> </tr> </table>		DIM	TOLERANCE		X ±	0.00-4.99 +0.15/-0.08	.X ±	5.00-9.99 +0.20/-0.10	.XX ±	10.00-17.49 +0.25/-0.13		17.50-24.99 +0.30/-0.13	DO NOT SCALE PRINT	CKD I A MAHADESHWAR
DIM	TOLERANCE													
X ±	0.00-4.99 +0.15/-0.08													
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	17.50-24.99 +0.30/-0.13													
ANG TOL ± 1.0°	SCALE 1:1	DATE 26NOV04 FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ANSI Y14.5M-1982		SITE CODE										
		FIRST USED ON GPC 48 600A SPEC 1 120-480 VAC		PGF										
				D 0626_2311 CAD SHEET 3 of 5										

REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178421	H	4	ZONE D4, ADD CONNECTION TB3-60 TO J27-10	MSC LNK	T.BEAUCAGE		10 JUL 18
		5	ZONE C5, ADD CONNECTION J27-10 TO TB3-60	MSC LNK	T.BEAUCAGE		10 JUL 18
		6	ZONE C5, TEXT "MEMBRANE PANEL" WAS "MEMBRANE PANAL"				
				MSC LNK	T.BEAUCAGE		10 JUL 18

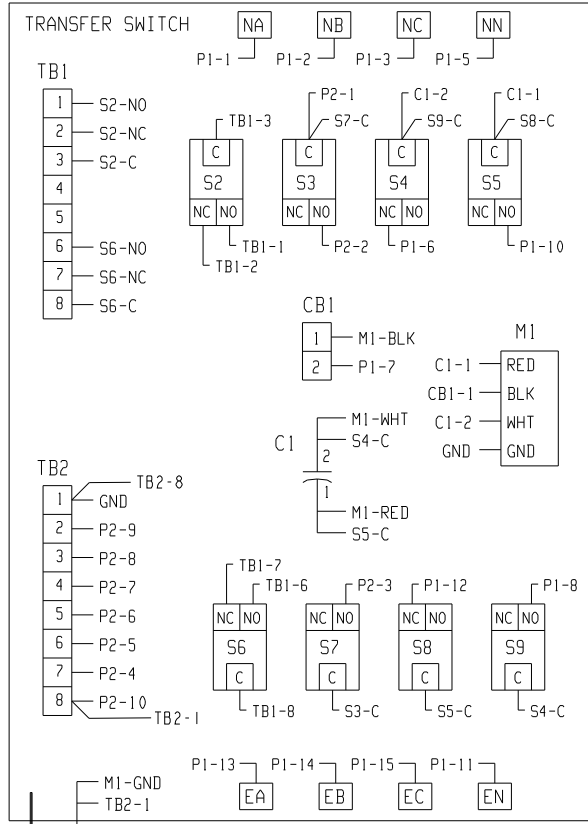
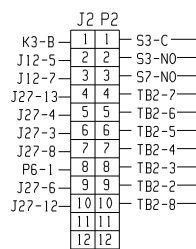
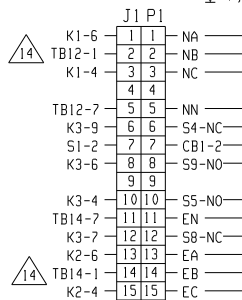
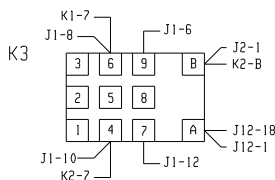
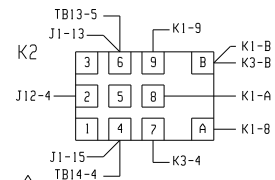
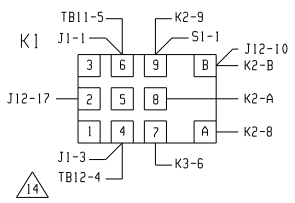
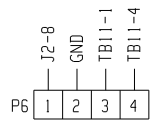
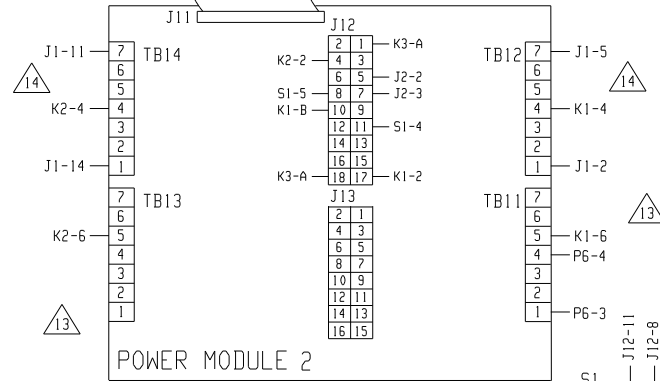
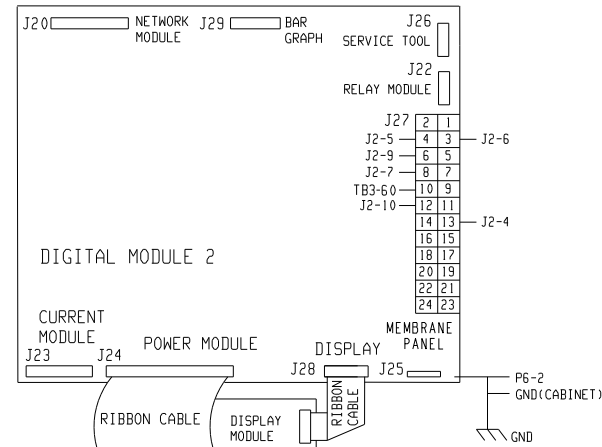
STANDARD WIRING

REAR VIEW OF DOOR

LEFT SIDEWALL

REAR WALL OF CABINET

TB3
60 60 J27-10



P1-5
P1-11
NEUTRAL BAR
NEUTRAL BAR IS USED ON 3 POLE MODELS ONLY.

NN IS USED ON 4 POLE MODELS ONLY.

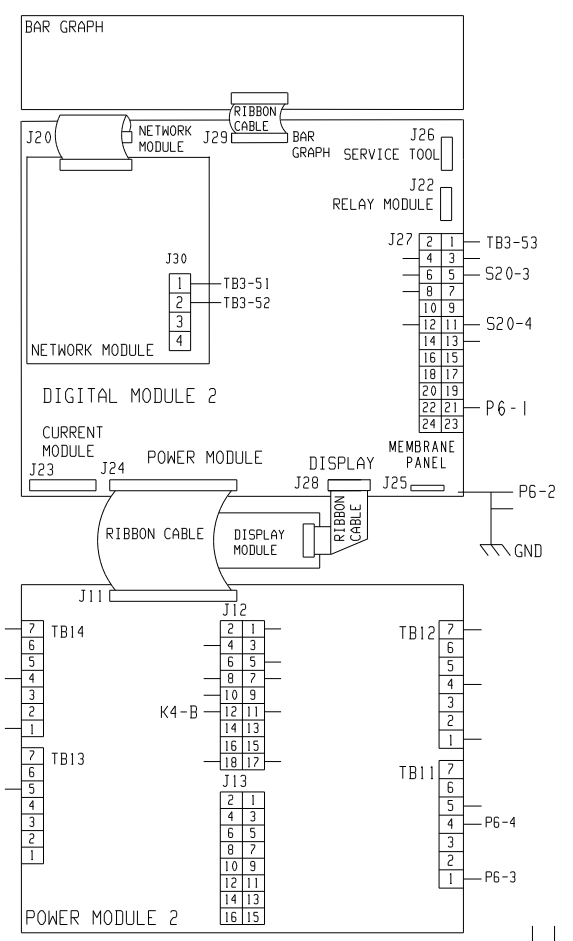
NOTES:
 13 SEE SHEET 3 FOR TB11, TB12, TB13 AND TB14 JUMPER CONNECTIONS.
 14 ON ALL SINGLE PHASE, 2 OR 3 WIRE UNITS: THE WIRE CONNECTED FROM J1-2 TO TB12-1 AND FROM J1-14 TO TB14-1 ARE NOT PRESENT.
 IN ADDITION, ON 120 VOLT L-N, 2 WIRE UNITS: THE WIRES CONNECTED FROM J1-3 TO K1-4 AND FROM J1-15 TO K2-4 ARE NOT PRESENT. THE WIRE CONNECTED FROM K1-4 TO TB12-7 WILL BE CONNECTED FROM K1-4 TO TB12-4 AND THE WIRE CONNECTED FROM K2-4 TO TB14-4 WILL BE CONNECTED FROM K2-4 TO TB14-7.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		SW TO	DWN S D MORE		CUMMINS POWER GENERATION WD-TRANSFER SWITCH
DIM	X ± I	DO NOT SCALE PRINT	CKD I A MAHADESHWAR		
	.X ± I		APVD MILLER	DATE 26NOV04	SITE CODE
	.XX ± I			FOR INTERPRETATION OF DIMENSIONS AND TOLERANCING, SEE ANSI Y14.5M-1982	PGF
ANG TOL	± 1.0°	SCALE 1:1	THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.	FIRST USED ON QTC 48 688 SPEC II 128 488 VC	WD-0626-2311
					CAD SHEET 4 of 5

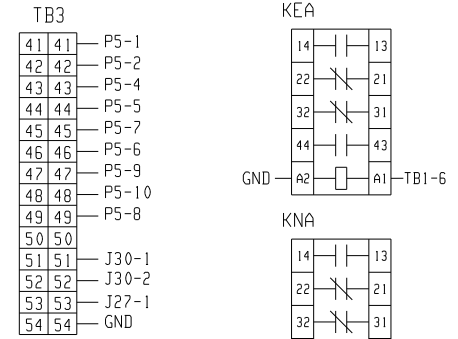
REL NO	REV	NO	REVISION	DRN	CKD	APVD	DATE
ECO-178421	H	7	ZONE C5, TEXT "MEMBRANE PANEL" WAS "MEMBRANE PANAL"	-	-	-	-
				MSC	LNK	T.BEAUCAGE	10 JUL 18

OPTION WIRING

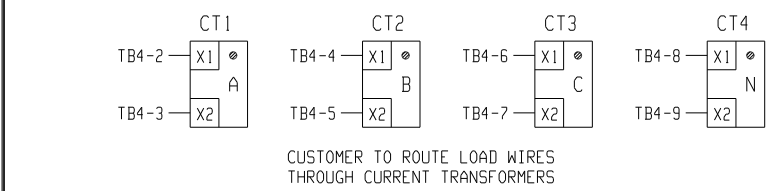
REAR VIEW OF DOOR



LEFT SIDEWALL



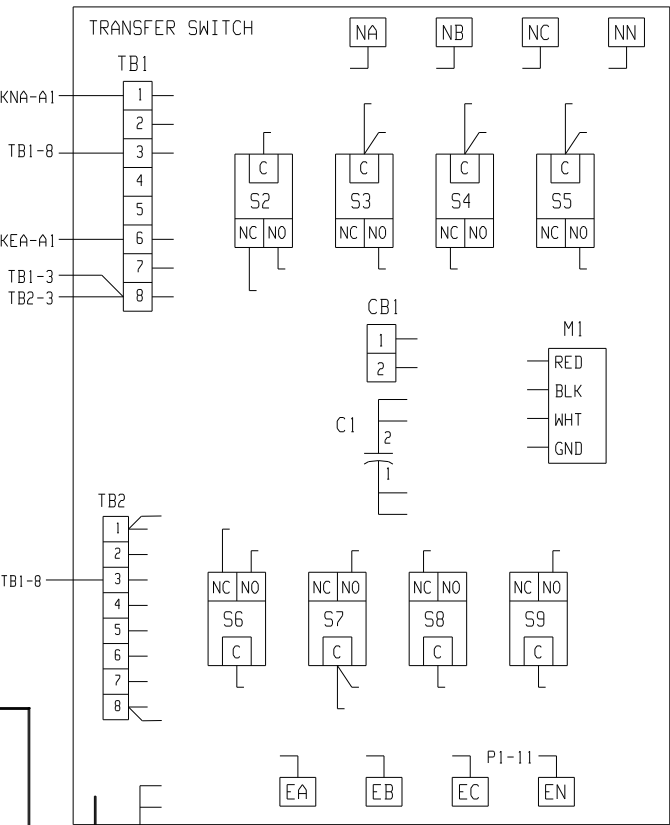
REAR WALL OF CABINET



CUSTOMER TO ROUTE LOAD WIRES THROUGH CURRENT TRANSFORMERS

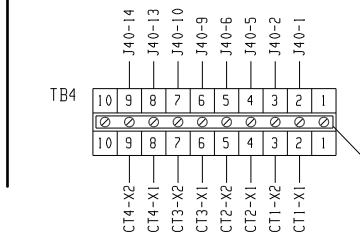
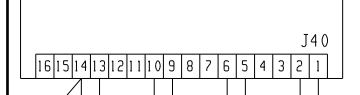
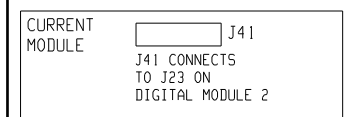
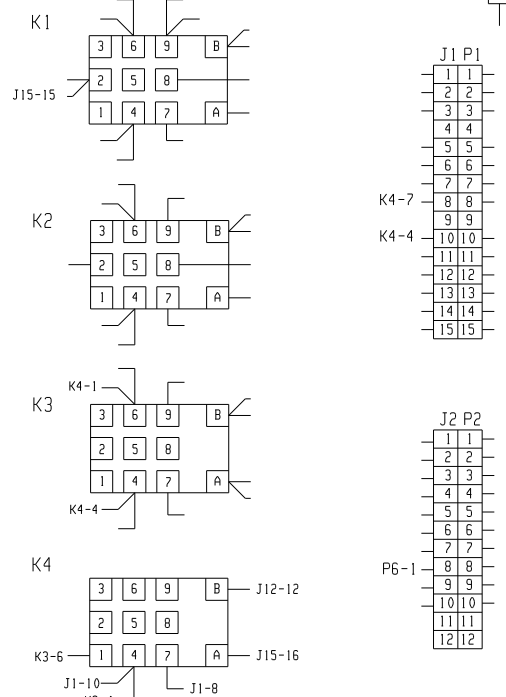
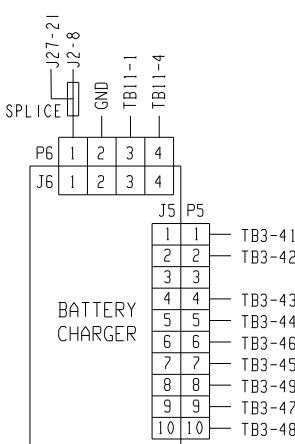
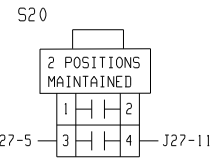
NN IS USED ON 4 POLE MODELS ONLY.

NEUTRAL BAR
NEUTRAL BAR IS USED ON 3 POLE MODELS ONLY.



NOTES:

15. WIRING FOR RELAYS KNA AND KEA IS TYPICAL. POWER CONNECTIONS TO COILS MAY VARY SLIGHTLY DEPENDING ON THE NUMBER OF RELAYS INSTALLED
16. CAUTION: DO NOT DISCONNECT THE CURRENT MODULE WHILE THE CURRENT TRANSFORMER ARE ENERGIZED UNLESS THE SECONDARIES ARE SHORTED. TO SHORT SECONDARIES ATTACH THE SHORTING BAR TO THE CENTER OF TB4 BEING SURE TO TIGHTEN EACH SCREW.
17. THE CURRENT TRANSFORMERS ARE SHORTED DURING SHIPPING. TO ACTIVATE, REMOVE THE SHORTING BAR FROM THE CENTER OF TB4 BY LOOSENING ALL OF THE SCREWS AND LIFTING IT OUT OF THE TERMINAL BLOCK. SAVE FOR REUSE.



SHORTING BAR 16 17

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		DRW TO	DRW S D MORE	CUMMINS POWER GENERATION WD-TRANSFER SWITCH
DIM X ± I TOLERANCE .X ± I .XX ± I		DO NOT SCALE PRINT 	CKD I A MAHADESHWAR APVD MILLER DATE 26NOV04	
ANG TOL ± 1.0°	SCALE 1:1	THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.		FIRST USED ON OF INTERPRETING AND TOLERANCING, SEE ANSI Y14.5M-1982 CUMMINS SPEC # 128-408 VIC PGF 0626_2311

Part A007N390 H

Description	Legacy Name	External Regulations	Application Status	Release Phase Code	Security Classification	Alternates
DIAGRAM,WIRING	0626-2311	No External Regulations Apply	Production Only	Production	Confidential	

Part Specifications :A007N390 H

Name	Description	Legacy Name
A030B356	SPECIFICATION,MATERIAL	CES10903
A014K482	DRAWING,WIRING SCHEMATIC	0626-2311