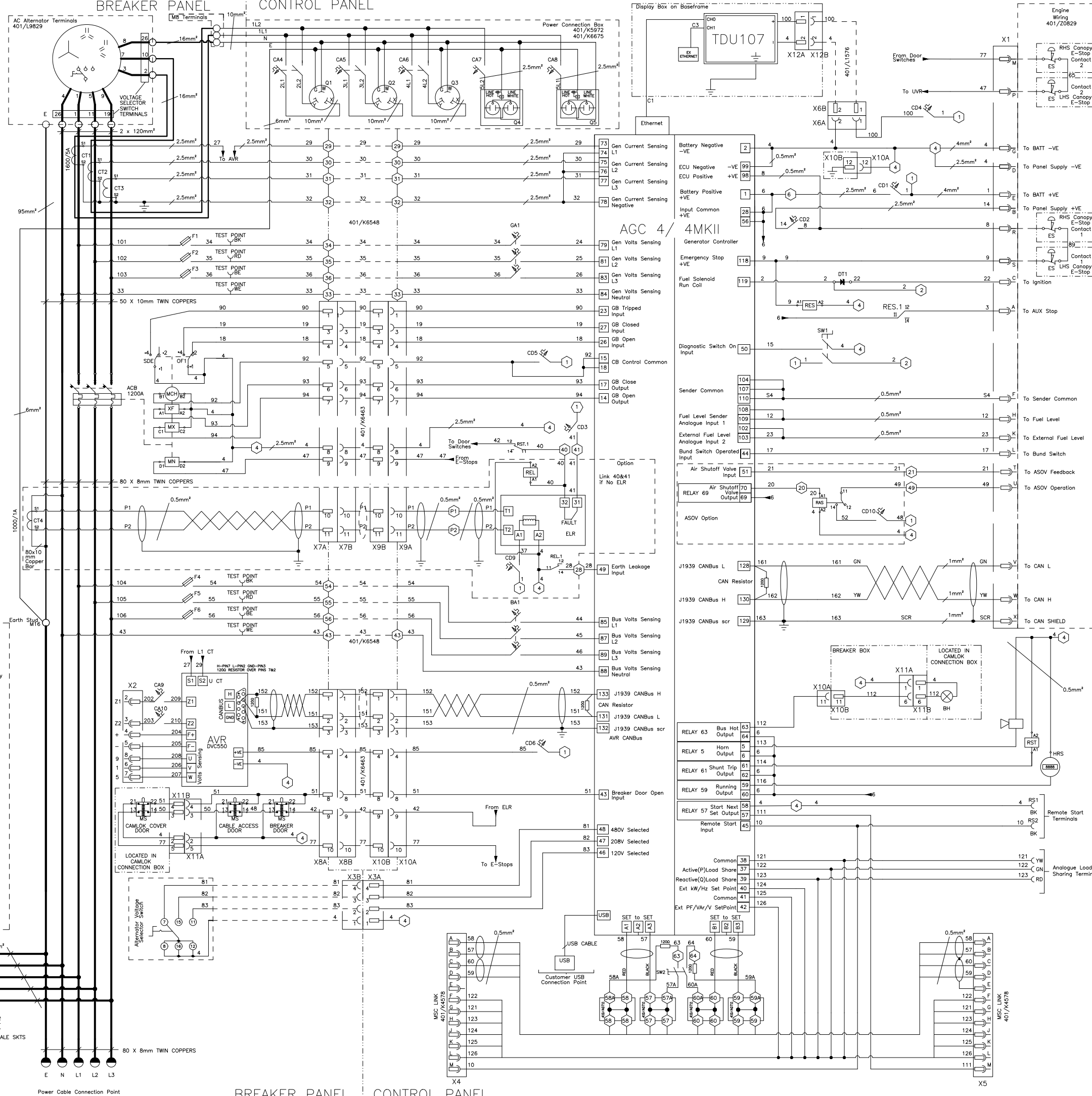


| | | |
|-------------|----------------------------------|---|
| 1 | Permanent Live DC | MCCB Molded Case Circuit Breaker |
| 2 | Ignition Live DC | ABC Automatic Battery Charger |
| 4 | Battery Negative DC | CEH Engine Heater Contactor |
| RS1,RS2 | Remote Start Terminals -DC | BC Battery Charger ON LED (RED) |
| CD1 | 2A MCB Controller DC Supply | EH Engine Heater ON LED (RED) |
| CD2 | 6A MCB E-Stop DC Supply | RBC Battery Charge ON Relay |
| CD3 | 2A MCB UV Coil DC Supply | REH Engine Heater ON Relay |
| CD4 | 4A MCB TDU107 Supply | SW1 ECU Diagnostic Switch |
| CD5 | 10A ACB Control Supply | SW2 Resistor Switch |
| CD6 | 2A MCB AVR Supply | AVR Automatic Voltage Regulator |
| CD7 | 2A MCB Indicator Lamp Supply | MS Cable Access Door Limit Switch |
| CD8 | 2A MCB CEH DC Supply | ELR Earth Leakage Device |
| CD9 | 2A MCB ELR DC Supply | REL Earth Leakage Relay |
| CD10 | 6A MCB RAS DC Supply | RST Breaker Trip Relay |
| CA1 | 6A MCB Battery Charger AC Supply | RAS Air Shut Off Relay |
| CA2 | 20A MCB Eng Heater AC Supply | RES Emergency Stop Relay |
| CA3 | 6A MCB Alt Heater AC Supply | REX Excitation Relay |
| CA4 | 50A Twist Lock Connector Supply | ES Emergency Stop Pushbutton |
| CA5 | 50A Twist Lock Connector Supply | BH Bus Hot LED (RED) |
| CA6 | 50A Twist Lock Connector Supply | MN Under-Voltage Release Coil |
| CA7 | 15A MCB GFCI Connector Supply | OF1 Breaker Status Auxiliary |
| CA8 | 15A MCB GFCI Connector Supply | SDE Breaker Tripped Auxiliary |
| F1 | 2A Fuse Terminal | 120 Ohm Resistor |
| F2 | 2A Fuse Terminal | X1 Engine Loom Connector |
| F3 | 2A Fuse Terminal | X2 Alternator AVR Connector |
| F4 | 2A Fuse Terminal | X3A/B Voltage Selector Switch Connector |
| F5 | 2A Fuse Terminal | X4 Set to Set Connector 1 |
| F6 | 2A Fuse Terminal | X5 Set to Set Connector 2 |
| CT1 CT2 CT3 | Gen Current Transformers | X6A/B Remote Control Panel Connector |
| CT4 | Earth Leakage Toroid | X7A/B Breaker Connector (Breaker Side) |
| GA1 | 2A Gen Voltage Sensing | X8A/B AVR Connector (Breaker Side) |
| BA1 | 2A Bus Voltage Sensing | X9A/B Breaker Connector (Panel Side) |
| IS | 40A 110V BC Supply Inlet Socket | X10A/B AVR Connector (Panel Side) |
| IS2 | 40A 110V EH Supply Inlet Socket | X11A/B Bus Hot Connector |
| Q1 | 50A Twist Lock | X12A/B Remote Control Panel Connector |
| Q2 | 50A Twist Lock | FTR EMC Filter |
| Q3 | 50A Twist Lock | CA9 6A MCB AVR Supply |
| Q4 | 15A GFCI | CA10 6A MCB AVR Supply |
| Q5 | 15A GFCI | |
| DT1 | Diode Terminal | |



| | | |
|----|---|-------|
| 10 | CONTROLLER UPDATED FROM 4 TO 4MKII, MCB CA7,CA8,CA9&CA10 CHANGED | MAR23 |
| 9 | CD4 CHANGED FROM 6A TO 4A | DEC22 |
| 8 | CA9&10 NOW CORRECTLY IDENTIFIED | AUG21 |
| 7 | MCB CA1 BATTERY CHARGER UP-RATED FROM 2A TO 6A | APR21 |
| 6 | CD4 CHANGED FROM 2A TO 4A | JAN21 |
| 5 | AVR VOLTAGE SENSING WIRING CHANGED, CA9 AND CA10 ADDED | NOV20 |
| 4 | EMC FILTER POSITION MOVED | JUN20 |
| 3 | EMC FILTER ADDED, TERMINALS REMOVED IN HEATER OPTION, CONNECTION DETAILS ADDED TO Q1, Q2, Q3, Q4, & Q5, SW2 CHANGED FROM NC TO NO | MAR20 |
| 2 | MCB IDENT CHANGE | JAN20 |

| NO. | ALTERATIONS | APP'D | DATE |
|-----|-------------|-------|------|
|-----|-------------|-------|------|

NOTES - ELECTRICAL

CABLE SIZE: IMM UNLESS OTHERWISE STATED

CABLE COLOURS DC CONTROL: YELLOW

AC POWER SINGLE PHASE: LIVE BLACK NEUTRAL WHITE
AC POWER THREE PHASE: L1 BLACK L2 RED, L3 BLUE, NEUTRAL WHITE
AC CONTROL: BLACK

SYSTEM VOLTAGE: 24VDC / 120/480VAC

Note: Cable identification numbers on the manufactured looms with a letter after the number are a continuation of the same circuit on this schematic. eg. 4a,4b,4c, etc are represented as just 4 on this schematic. Refer to loom drawings in PLM for details.

TITLE: AGC4 CONTROL SCHEMATICS

CLIENT:

SITE:

W.O. No.: P852 CREATED BY: CF

TYPE: G400RST4F DATE: MAY19

SCALE: NTS CHECKED BY: RB

SHEET: 1 DATE: JUL19

DRAWING NO. ISSUE

401/G9345 10

Copyright © JCB Power Products Limited. All rights reserved.



JCB Power Products Limited
Airfield Industrial Estate, Hixon, Stafford,
ST18 0PF, United Kingdom.
tel: +44 (0) 1889 272 200

www.jcbpowerproducts.com