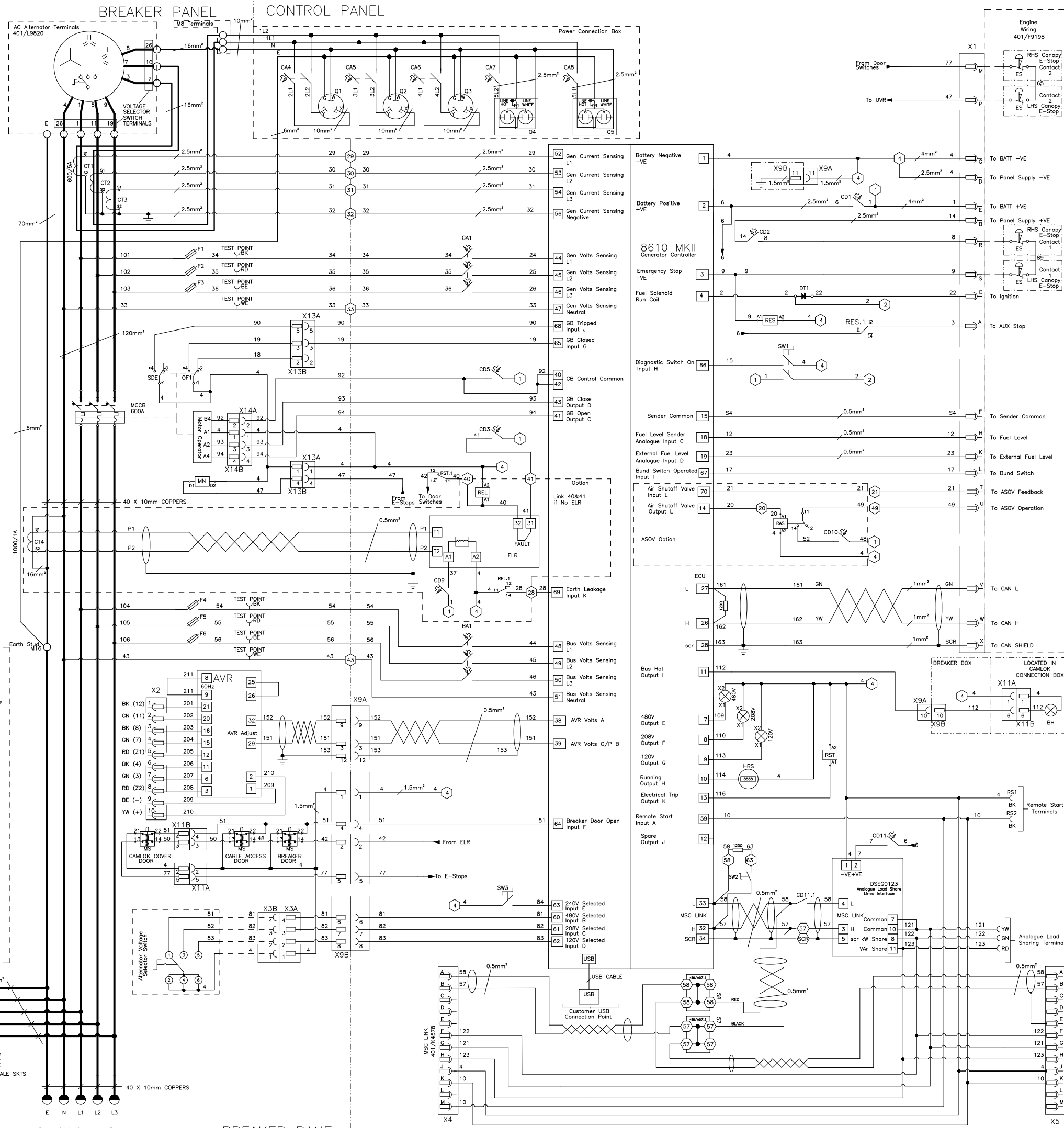


1	Permanent Live DC	MCCB Molded Case Circuit Breaker
2	Ignition Live DC	ABC Automatic Battery Charger
4	Battery Negative DC	CEH Engine Heater Contactor
RS1,RS2	Remote Start Terminals -DC	BC Battery Charger ON LED (RED)
CD1	2A MCB Controller DC Supply	EH Engine Heater ON LED (RED)
CD2	6A MCB E-Stop DC Supply	RBC Battery Charge ON Relay
CD3	2A MCB Shunt Trip (LVR) DC Supply	REH Engine Heater ON Relay
CD5	10A MCB ACB Control DC Supply	SW1 ECU Diagnostic Switch
CD7	2A MCB AC Indicator Lamp Supply	SW2 Resistor Switch
CDB	2A MCB CEH DC Supply	SW3 240V Switch
CD9	2A MCB ELR DC Supply	AVR Automatic Voltage Regulator
CD10	6A MCB RAS DC Supply	MS Cable Access Door Limit Switch
CD11	2A MCB DSE123 DC Supply	ELR Earth Leakage Relay
CA1	6A MCB Battery Charger AC Supply	REL Earth Leakage Relay
CA2	20A MCB Eng Heater AC Supply	RST Breaker Trip Relay
CA3	6A MCB Air Heater AC Supply	RAS Air Shut Off Relay
CA4	50A Twist Lock Connector Supply	RES Emergency Stop Relay
CA5	50A Twist Lock Connector Supply	REX Excitation Relay
CA6	50A Twist Lock Connector Supply	ES Emergency Stop Pushbutton
CA7	15A MCB GFCI Connector Supply	BH Bus Hot LED (RED)
CA8	15A MCB GFCI Connector Supply	MN Under-Voltage Release Coil
F1	2A Fuse Terminal	OF1 Breaker Status Auxiliary
F2	2A Fuse Terminal	SDE Breaker Tripped Auxiliary
F3	2A Fuse Terminal	120 Ohm Resistor
F4	2A Fuse Terminal	X1 Engine Loom Connector
F5	2A Fuse Terminal	X2 Alternator AVR Connector
F6	2A Fuse Terminal	X3A/B Voltage Selector Switch Connector
CT1 CT2 CT3	Gen Current Transformers	X4 Set to Set Connector 1
CT4	Earth Leakage Toroid	X5 Set to Set Connector 2
GA1	2A Gen Voltage Sensing	X6 Remote Control Panel Connector
BA1	2A Bus Voltage Sensing	X9 Breaker Connector (Panel Side)
IS 40A 110V BC Supply Inlet Socket		X11A/B CAMLOK Box Connector
IS2 40A 110V EH Supply Inlet Socket		X13A/B Breaker Aux Connector
Q1	50A Twist Lock	X14A/B Breaker Motor Connector
Q2	50A Twist Lock	FTR EMC Filter
Q3	50A Twist Lock	480V Selected LED (GREEN)
Q4	15A GFCI	208V Selected LED (GREEN)
Q5	15A GFCI	120V Selected LED (GREEN)
DT1	Diode Terminal	



11	CA7&8 CHANGED TO 15A WAS 20A	MAR23
10	DSE123 CHANGED TO DSEG0123	DEC22
9	DSE123 MSC LINK SWITCH ADDED	JUN21
8	REMOTE START ADDED TO MSC CONNECTIONS, 120 OHM RESISTOR ADDED ON ENGINE CAN	MAY21
7	MCB CA1 BATTERY CHARGER UP-RATED FROM 2A TO 6A	APR21
6	AVR WIRING ADDED TO PLUG/SOCKET X9	JAN21
5	CD11 ADDED	NOV20
4	WIRE 111 REMOVED, AVR WIRING UPDATED	NOV20
3	DRAWING NUMBER CORRECTED	NOV20

No.	ALTERATIONS	APP'D	DATE
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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  
 CT WIRING: GREY

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:	DSE8610 CONTROL SCHEMATICS		
CLIENT:			
SITE:			
W.O. No.:	P852	CREATED BY:	CF
TYPE:	G220RST4F	DATE:	FEB20
SCALE:	NTS	CHECKED BY:	RB
SHEET:	I	DATE:	FEB20
DRAWING NO.		ISSUE	

401/S5486 II

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