

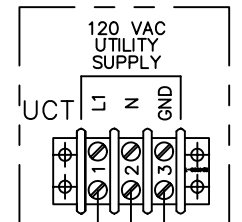
CONTROL PANEL LEGEND

AVR - AUTOMATIC VOLTAGE REGULATOR
 BCH - BATTERY CHARGER
 BR1 - DIODE (FIELD BOOST)
 CB2 - CIRCUIT BREAKER (EXCITATION)
 F1 - FUSE, BAT. POWER (15A ATO TYPE)
 J2 - CONNECTOR 2 (ON PCB)
 R4 - FIELD BOOST RESISTOR
 RL1 - RELAY 1 (START RELAY)
 RL2 - (RELAY 2 (ENGINE RUN)
 SCR - SCR BRIDGE MODULE W/PCB
 SW1 - AUTO/OFF/MANUAL SWITCH
 SW2 - SET EXERCISER SWITCH
 TB - TERMINAL BLOCK
 TR1 - TRANSFORMER (6VA UTIL/16 VAC)

NOTE: ALL WIRES ARE
 18 AWG UL LISTED UNLESS
 OTHERWISE NOTED AS SHOWN:

SIZE
 (AWG)
 18

CUSTOMER CONNECTIONS



PCB J2
 ANALOG INP RET 1 - 56A
 START RELAY 2 - 14A
 FUEL(RUN) RELAY 3 - 183
 2 WIRE START(1) 4 - 15E
 MOMENT. OPEN 5 - 178
 2 WIRE START(2) 6 - 15A
 MAN/AUTO INPUT 7 - 224
 16VAC SENSE(1) 8 - 239
 ALARM RELAY 9 -
 XFER RELAY 10 - 23
 MAN. INPUT 11 - 225
 16VAC SENSE(2) 12 - 0
 ANALOG INP 13 -
 GND-B 14 -

RL2 ENGINE RUN
 RL1 ENGINE START

UTILITY FROM T/SW
 UTILITY FROM T/SW
 TRANSFER RELAY COIL
 TRANSFER RELAY COIL
 REMOTE START
 REMOTE START

SINGLE-PHASE STATOR SHOWN.
 FOR 3-PHASE SEE DWG. OF6839.

CUSTOMER CONNECTIONS

WIRING - DIAGRAM

3.9L 70kW 2P

DRAWING #: 0F3179

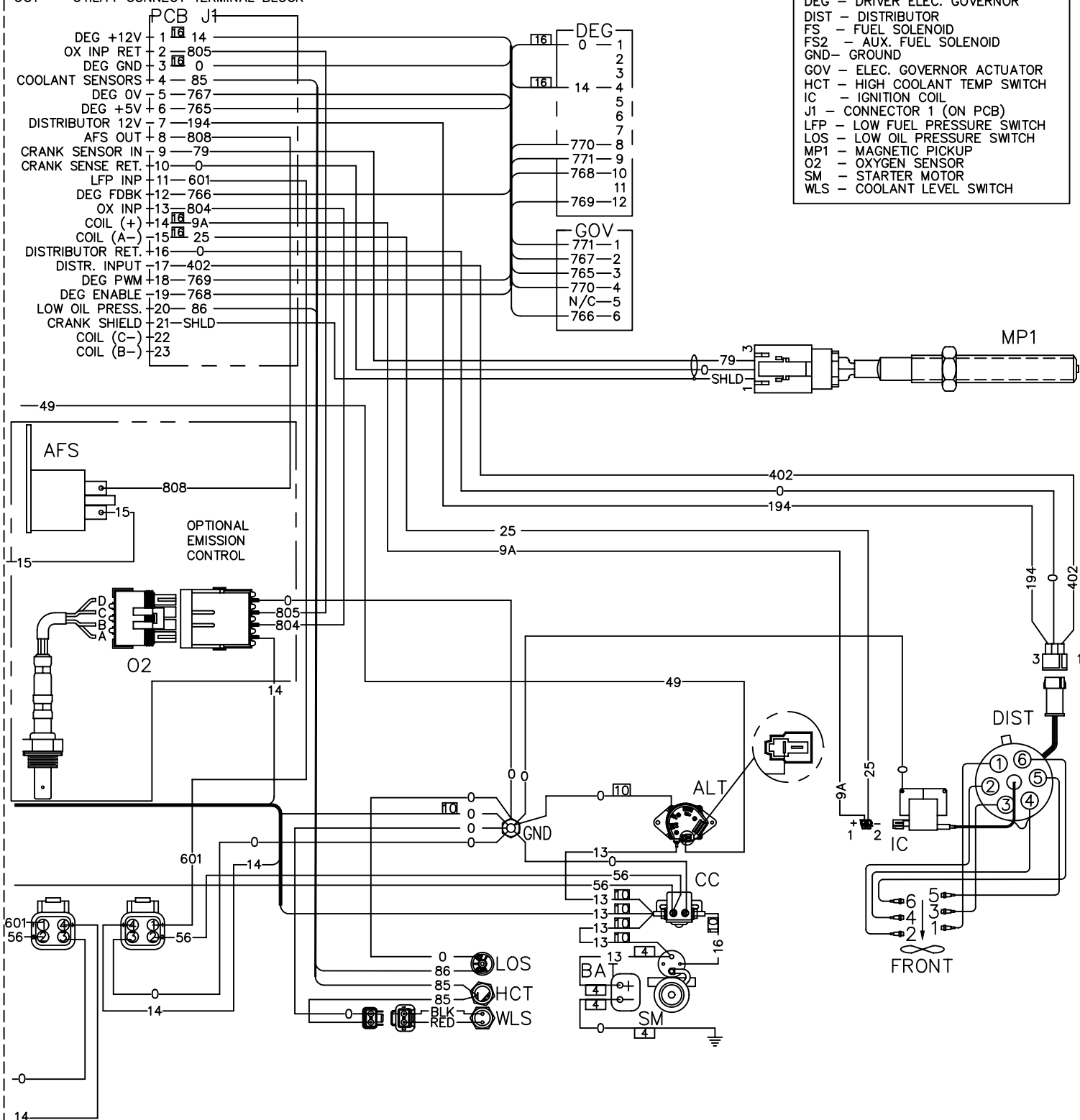
CUSTOMER CONNECTION

& ALTERNATOR LEGEND:

BA - BRUSH ASSEMBLY (GENERATOR)
 ICT - INTERCONNECT TERMINAL BLOCK
 MCB - MAINLINE CIRCUIT BREAKER
 NB - NEUTRAL BLOCK
 UCT - UTILITY CONNECT TERMINAL BLOCK

ENGINE WIRING LEGEND

AFS - AIR/FUEL SOLENOID
 ALT - D.C. CHARGE ALTERNATOR
 BAT - 12VDC BATTERY
 CC - STARTER CONTACTOR
 DEG - DRIVER ELEC. GOVERNOR
 DIST - DISTRIBUTOR
 FS - FUEL SOLENOID
 FS2 - AUX. FUEL SOLENOID
 GND - GROUND
 GOV - ELEC. GOVERNOR ACTUATOR
 HCT - HIGH COOLANT TEMP SWITCH
 IC - IGNITION COIL
 J1 - CONNECTOR 1 (ON PCB)
 LFP - LOW FUEL PRESSURE SWITCH
 LOS - LOW OIL PRESSURE SWITCH
 MP1 - MAGNETIC PICKUP
 O2 - OXYGEN SENSOR
 SM - STARTER MOTOR
 WLS - COOLANT LEVEL SWITCH



WIRING - DIAGRAM

3.9L 70kW 2P

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