| | | | |
|---|---|---|---|
| WIRING DIAGRAM | 11/14 | Supersedes | New Form No. |
| 337753-01 | | | 337753-01 |
| COOLING -MSAV WITH BYPASS | | | |
| LCH/LGH - 180, 240 ULTRA - G, J, Y | | | |
| SECTION B | REV. 0 | | |

DENOTES OPTIONAL COMPONENTS

LINE VOLTAGE FIELD INSTALLED

IF ANY WIRE IN THIS APPLIANCE IS REPLACED IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, TERMINATION AND INSULATION THICKNESS

WARNING - ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH . UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING.

| KEY | COMPONENT |
|---|---|
| A55 | MAIN CONTROL BOARD |
| A96 | CONTROL INVERTER |
| A178 | PANEL, COMP 3&4, C3 2nd STAGE HEAT |
| A185 | TRANSDUCER TANDEM COMPRESSOR STG 1 |
| A186 | TRANSDUCER TANDEM COMPRESSOR STG 2 |
| A187 | CONTROL GENERAL PURPOSE GP3 |
| B1 | COMPRESSOR 1 |
| B2 | COMPRESSOR 2 |
| B3 | MOTOR, BLOWER |
| B4 | MOTOR, OUTDOOR FAN 1 |
| B5 | MOTOR, OUTDOOR FAN 2 |
| B10 | MOTOR, EXHAUST FAN 1 |
| B11 | MOTOR, EXHAUST FAN 2 |
| B13 | COMPRESSOR 3 |
| B20 | COMPRESSOR 4 |
| B21 | MOTOR, OUTDOOR FAN 3 |
| B22 | MOTOR, OUTDOOR FAN 4 |
| B23 | MOTOR, OUTDOOR FAN 5 |
| B24 | MOTOR, OUTDOOR FAN 6 |
| C6 | CAPACITOR, EXHAUST FAN 1 |
| C8 | CAPACITOR, EXHAUST FAN 2 |
| CB10 | CIRCUIT, BREAKER, MAIN DISCONNECT UNIT |
| CB18 | CIRCUIT, BREAKER T1 |
| F4 | FUSE, MAIN UNIT |
| F6 | FUSE, EXHAUST FAN |
| F10 | FUSE, OUTDOOR FAN MOTOR |
| F30 | FUSE, TRANSFORMER T29 PRIMARY |
| F31 | FUSE, TRANSFORMER T29 SECONDARY |
| HR1 | HEATER COMPRESSOR 1 |
| HR2 | HEATER COMPRESSOR 2 |
| HR5 | HEATER COMPRESSOR 3 |
| HR11 | HEATER 1, COMPRESSOR 4 |
| J11 | JACK, GFI, RECEPTACLE |
| K1,-1 | CONTACTOR, COMPRESSOR 1 |
| K2, -1 | CONTACTOR, COMPRESSOR 2 |
| K3-1 | RELAY-CONTRACTOR, BLOWER |
| K14, -1 | CONTACTOR, COMPRESSOR 3 |
| K65-1,2 | RELAY, EXHAUST FAN |
| K146-1 | CONTACTOR, COMPRESSOR 4 |
| K191-2 | RELAY, CRANKCASE HEATER 1 |
| K194-2 | RELAY, CRANKCASE HEATER 2 |
| K202-1 | RELAY, INVERTER |
| K203-2 | RELAY, CONTROL INVERTER |
| K231-1,2 | RELAY, EXHUST FAN 2 |
| K233-2 | RELAY, CRANKCASE HEATER 3 |
| K234-2 | RELAY, CRANKCASE HEATER 4 |
| RT17 | SENSOR, OUTDOOR AIR |
| RT37 | SENSOR, THERMISTOR 1, COMPRESSOR 1 |
| RT38 | SENSOR, THERMISTOR 2, COMPRESSOR 2 |
| RT39 | SENSOR, THERMISTOR 3, COMPRESSOR 3 |
| RT40 | SENSOR, THERMISTOR 4, COMPRESSOR 4 |
| S4 | SWITCH, LIMIT HI PRESS COMPRESSOR 1 |
| S5 | SWITCH, LIMIT HI TEMP COMPRESSOR 1 |
| S6 | SWITCH, LIMIT HI TEMP COMPRESSOR 2 |
| S11 | SWITCH, LOW PRESS, LOW AMBIENT COMP 1 |
| S28 | SWITCH, LIMIT HI PRESS COMPRESSOR 3 |
| S31 | LIMIT, HIGH TEMP COMPRESSOR 3 |
| S48 | SWITCH, DISCONNECT |
| S49 | SWITCH, FREEZE STAT COMPRESS 1 |
| S53 | SWITCH, FREEZE STAT COMPRESS 3 |
| S85 | SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3 |
| S87 | SWITCH, LOW PRESS, COMP 1 |
| S98 | SWITCH, LOW PRESS, COMP 3 |
| S117 | SWITCH, GFI |
| S180 | LIMIT, HIGH TEMP COMPRESSOR 4 |
| T15 | TRANSFORMER, OUTDOOR FAN MOTOR |
| T18 | TRANSFORMER, CONTACTOR |
| T29 | TRANSFORMER, GFI |
| T59 | TRANSFORMER, OUTDOOR FAN MOTOR |
| TB13 | TERMINAL STRIP, POWER DISTRIBUTION |

| J/P | JACK/PLUG DESCRIPTION |
|---|---|
| 18 | POWER EXHAUST HARNESS |
| 24 | RELAY TO EXHAUST FANS |
| 47 | MOTOR, OUTDOOR FAN 1 |
| 52 | MOTOR, OUTDOOR FAN 2 |
| 86 | OUTDOOR FANS 1 |
| 87 | OUTDOOR FANS 2 |
| 106 | MOTOR, OUTDOOR FAN 3 |
| 107 | MOTOR, OUTDOOR FAN 4 |
| 108 | MOTOR, OUTDOOR FAN 5 |
| 109 | MOTOR, OUTDOOR FAN 6 |
| 118 | COMPRESSOR 3 AND 4, CONTROL A178 |
| 119 | COMPRESSOR 3 AND 4, INPUT |
| 132 | POWER TO EXHAUST FAN MOTOR 1 |
| 133 | POWER TO EXHAUST FAN MOTOR 2 |
| 246 | POWER TO VFD |
| 247 | VFD TO MTR |
| 248 | VFD CONTROL |
| 259 | BLOWER ECM MOTOR |
| 263 | HIGH AND LOW PRESSURE SWITCHES |
| 264 | BLOWER DECK AREA |
| 265 | CONTACTORS AND RELAYS |
| 267 | OUTDOOR FAN AREA |
| 268 | 24V POWER FROM TRANSFORMERS TO A55 |
| 320 | OD FAN CONTROL SET 1 |
| 321 | OD FAN CONTROL SET 2 |
| 333 | 0-5V TRANSDUCER INPUT |
| 336 | OD FAN CONTROL B4 |
| 337 | OD FAN CONTROL B5 |
| 338 | OD FAN CONTROL B21 |
| 339 | OD FAN CONTROL B22 |
| 340 | OD FAN CONTROL B23 |
| 341 | OD FAN CONTROL B24 |
| 342 | COMPRESSOR PRESSURE TRANSDUCER STG 1 |
| 343 | TEMPERTURE SENSOR COMPRESSOR 1 |
| 344 | TEMPERTURE SENSOR COMPRESSOR 2 |
| 345 | COMPRESSOR PRESSURE TRANSDUCER STG 2 |
| 346 | TEMPERTURE SENSOR COMPRESSOR 3 |
| 347 | TEMPERTURE SENSOR COMPRESSOR 4 |
| 348 | CONTROL GENERAL PURPOSE GP3 |

NOTE: FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

6 T5/T59 USED ON G & J VOLTAGE ONLY

5 USED ON LCH

4 B10, B11 NOT USED ON UNITS WITH ERV

3 S49 AND S53 ARE PART OF 5VDC CIRCUIT

2 F6 AND F10 FUSES ARE USED ON "Y" VOLTAGE UNITS ONLY

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