



DEVICE DESIGN	DESCRIPTION	LINE NUMBER
CC1	CONTACTOR - COMPRESSOR #1	68
CC2	CONTACTOR - COMPRESSOR #2	67
CTS	SENSOR - COIL TEMPERATURE	69
DTL1	SWITCH - DISCHARGE TEMP LIMIT #1	65
DTL2	SWITCH - DISCHARGE TEMP LIMIT #2	66
F1	RELAY - FAN INTERLOCK	64,73
HPC1	SWITCH - HIGH PRESSURE #1	65
HPC2	SWITCH - HIGH PRESSURE #2	66
LPC1	SWITCH - LOW PRESSURE #1	74
LPC2	SWITCH - LOW PRESSURE #2	76
OAS	SENSOR - OUTDOOR AIR TEMP	72
ODF1	RELAY - OUTDOOR FAN #1	71
ODF2	RELAY - OUTDOOR FAN #2	76
PHM	PHASE MONITOR	64
R1	RESISTOR	95
RHT	SWITCH - RETURN HIGH TEMPERATURE	66
RHV	VAVLE - REHEAT	103
RTOM	MODULE - RTOM	98
RTRM	MODULE - RELIATEL REGRIGERATION	62
SHT	SWITCH - SUPPLY HIGH TEMPERATURE	66
SOV1	VALVE - SWITCH OVER #1	74
SOV2	VALVE - SWITCH OVER #2	75
VFD	VFD - TITLE 24 & SINGLE ZONE VAV	89
VRR	RELAY - VFD RUN	63,90
VSR	RELAY - VFD SPEED	84,94
ZSM	MODULE - ZONE SENSOR	81

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 DATE: 2/13/09
 DRAWN BY: D. SHANNON
 CHECKED BY: J. B. HARRIS
 TITLE: CONTROL SCHEMATIC - RELIATEL HEAT PUMP VARIABLE AIR VOLUME

FILE NUMBER: 2313-1486
 DRAWING NUMBER: 2313-1492
 SHEET: 1 OF 1
 REV: A

1. INSTALL OPTIONAL REMOTE SENSOR TO TERMINALS S1 AND S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR/REMOTE PANEL WITH NSB LITERATURE FOR OPTIONAL CONFIGURATION.
 2. TERMINALS 7, 8, 9, AND 10 ARE FOR OPTIONAL INDICATORS.
 3. AUXILIARY RELAY ENERGIZED DURING OCCUPIED PERIODS.
 4. TO DISABLE COMPRESSORS, REMOVE JUMPERS BETWEEN LTB-1 AND LTB-2 AND BETWEEN LTB-3 AND LTB-4 AND CONNECT FIELD SUPPLIED DEVICE.
 5. TO SHUT DOWN THE UNIT FOR EMERGENCY STOP, REMOVE BETWEEN LTB-5 AND LTB-6 JUMPER AND INSTALL FIELD SUPPLIED DEVICE.
 6. TO ENABLE COMPRESSOR LEAD/LAG OPERATION CUT WIRE 36B(BL).
 7. CONNECT WIRES 36B(YBL) AND 36B(ZBL) TO ENABLE 3 STAGE COOLING.
 8. SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT WHEN OPTIONAL ELECTRIC HEAT IS REQUIRED. HEAT CONTACTORS AND ASSOCIATED WIRING USED WITH THE FOLLOWING ELECTRIC HEAT OPTIONS:
 CONTACTOR: ALL
 AH: 36, 54 AND 72 KW
 BH: 54 AND 72 KW
 CH: 72 KW
 DH: 72 KW