DEVICE DESIGNATIONS AND DESCRIPTIONS

DEVICE	DESCRIPTION	ZONE
1A1	HUMAN MACHINE INTERFACE; ADAPTIVIEW TOUCH SCREEN DISPLAY	418
1B8	THERMOSTAT; ENCLOSURE VENTILATION FAN ENABLE SWITCH	54
1F20	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	179
1F21	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	180
1F22	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	181
1F23	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	199
1F24	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	200
1F25	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	201
1F26	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	254
1F27	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	255
1F28	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	256
1F29	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	274
1F30	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	275
1F31	FUSE; CONDENSER FAN MOTOR 30A CLASS CC	276
1F33	FUSE; CONTROL POWER TRANSFORMER PRIMARY CLASS CC	29
1F34	FUSE; CONTROL POWER TRANSFORMER PRIMARY CLASS CC	27
1F35	CIRCUIT BREAKER; PRIMARY TRANSFORMER 5A	31
1F36	SURGE PROTECTIVE DEVICE; MAIN ENCLOSURE	26
1F37	CIRCUIT BREAKER; COMPRESSOR 1 BRANCH	12
1F38	CIRCUIT BREAKER; COMPRESSOR 2 BRANCH	87
1F40	FUSE; CONVENIENCE OUTLET TRANSFORMER PRIMARY CLASS CC	663
1F41	FUSE; CONVENIENCE OUTLET TRANSFORMER PRIMARY CLASS CC	660
1F42	FUSE; CONVENIENCE OUTLET TRANSFORMER SECONDARY CLASS CC	663
1F43	FUSE; WATER BOX HEATERS CLASS CC	664
1F45	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	624
1F46	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	625
1F47	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	626
1F48	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	634
1F49	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	635
1F50	FUSE; FREE COOLING FAN MOTOR 30A CLASS CC	636
1F51	FUSE; INDIRECT FREE COOLING POWER BLOCK 60A CLASS J	534
1F52	FUSE; INDIRECT FREE COOLING POWER BLOCK 60A CLASS J	534
1F53	FUSE; INDIRECT FREE COOLING POWER BLOCK 60A CLASS J	534
1F54	FUSE; INDIRECT FREE COOLING PUMP CONTACTOR 45A CLASS J	545
1F55	FUSE; INDIRECT FREE COOLING PUMP CONTACTOR 45A CLASS J	546
1F56	FUSE; INDIRECT FREE COOLING PUMP CONTACTOR 45A CLASS J	547
1F57	FUSE; INDIRECT FREE COOLING HEATER TRANSFORMER PRIMARY 10A CLASS CC	555
1F58	FUSE; INDIRECT FREE COOLING HEATER TRANSFORMER PRIMARY 10A CLASS CC	549
1F59	CIRCUIT BREAKER; INDIRECT FREE COOLING HEATER	555
1F60	CIRCUIT BREAKER; INDIRECT FREE COOLING HEATER	567
1F61	CIRCUIT BREAKER; INDIRECT FREE COOLING HEATER	579
1F62	FUSE; EVAPORATOR PUMP PACKAGE CLASS T	683
1F63	FUSE; EVAPORATOR PUMP PACKAGE CLASS T	683
1F64	FUSE; EVAPORATOR PUMP PACKAGE CLASS T	683
1K1	CONTROLLER; SYMBIO 800	403
1K2	BINARY INPUT; EXTERNAL AUTO STOP AND EMERGENCY STOP	363
1K3	BINARY INPUT; EXTERNAL CIRCUIT LOCKOUT	355
1K4	ANALOG INPUT/OUTPUT; DEMAND LIMIT AND CHILLED WATER SETPOINT	314
1K5	ANALOG INPUT/OUTPUT; COMPRESSOR PERCENT CAPACITY	325
1K6	BUILDING AUTOMATION; LONTALK INTERFACE	413
1K8	BINARY INPUT; ICE MAKING CONTROL AND NOISE REDUCTION	370
1K9	RESISTANCE INPUT; MOTOR WINDING TEMPERATURE - COMPRESSOR 1A	305
1K10	RESISTANCE INPUT; MOTOR WINDING TEMPERATURE - COMPRESSOR 2A	305
1K12	RELAY; ICE MAKING STATUS	351
1K13	RELAY; PROGRAMMABLE UNIT STATUS	335
1K14	RELAY; CHILLED WATER PUMP	362
1K15	BINARY INPUT; WATER FLOW SENSOR AND FREE COOLING FAN FAULT	317
1K17	BINARY INPUT; OIL LOSS LEVEL SENSORS	330
1K18	RELAY; CONDENSER FAN ENABLE	160
1K19	ANALOG INPUT/OUTPUT; CONDENSER FAN SPEED - SHARED	235
1K20	ANALOG INPUT/OUTPUT; CONDENSER FAN SPEED	160
1K21	BINARY INPUT; CONDENSER FAN FAULT	160
1K22	RELAY; CONDENSER FAN ENABLE - SHARED	235
1K23	ANALOG INPUT/OUTPUT; DRIVE COOLING 3-WAY VALVES - CIRCUIT 1 AND 2	346
1K24	TRIAC OUTPUT; LEFT / RIGHT VARIABLE VI - COMPRESSOR 1A	382
1K25	TRIAC OUTPUT; LEFT / RIGHT VARIABLE VI - COMPRESSOR 2A	390
1K40	RELAY; HEATER AND VFD COOLING PUMP - CIRCUIT 1	42
1K41	RELAY; HEATER AND VFD COOLING PUMP - CIRCUIT 2	109
1K42	RELAY; AUTOTRANSFORMER THERMAL LIMIT SWITCH	136
1K43	ANALOG INPUT/OUTPUT; MODULATING BYPASS VALVE ACTUATOR - DFC/IDFC	471
1K45	ANALOG INPUT/OUTPUT; FREE COOLING FAN SPEED	610
1K46	RELAY; FREE COOLING FAN AND INDIRECT PUMP ENABLE	534
1K47	BINARY INPUT; FREE COOLING PUMP FAULT AND FREE COOLING FLOW	534
1K48	CONTROLLER; ULP TO MODBUS CIRCUIT BREAKER INTERFACE	619
1K50	CONTACTOR; INDIRECT FREE COOLING PUMP	545
1K51	RELAY; FREE COOLING PIPE HEATER ENABLE	541
1M5	FAN; MAIN ENCLOSURE VENTILATION	54
1Q1	CIRCUIT BREAKER; MAIN ENCLOSURE POWER DISTRIBUTION	16
1Q50	OVERLOAD; INDIRECT FREE COOLING PUMP	545
1R1	RESISTOR; ULP COMMUNICATION TERMINATION	624
1T1	VARIABLE FREQUENCY DRIVE; COMPRESSOR 1A	31
1T2	VARIABLE FREQUENCY DRIVE; COMPRESSOR 2A	98
1T10	TRANSFORMER; CONTROL POWER CLASS 1 115VAC SECONDARY	29
1T11	TRANSFORMER; CONTROL POWER CLASS 1 27VAC SECONDARY	47
1T12	TRANSFORMER; CONTROL POWER CLASS 1 27VAC SECONDARY	382
1T13	POWER SUPPLY; 24VDC	51
1T14	POWER SUPPLY; 24VDC	119
1T15	POWER SUPPLY; 24VDC	383
1T16	CHOKE; COMPRESSOR MOTOR 1A	31
1T17	CHOKE; COMPRESSOR MOTOR 2A	98
1T18	TRANSFORMER; CONTROL POWER CLASS II DUAL 24VAC SECONDARY	460
1T19	TRANSFORMER; CONVENIENCE OUTLET AND HEATERS 115VAC SECONDARY	663
1T20	TRANSFORMER; CONTROL POWER CLASS II DUAL 24VAC SECONDARY	487
1X1	TERMINAL; POWER DISTRIBUTION - MAIN ENCLOSURE	9
1X3	TERMINAL; POWER 115VAC BUS	29
1X4	TERMINAL; POWER - HEATERS	652
1X5	TERMINAL; POWER 115VAC BUS	36
1X6	TERMINAL; GROUNDING - DFC ACTUATORS	460
1X7	TERMINAL; POWER - CONVENIENCE OUTLET	660
1X8	TERMINAL; CONTROL - FREE COOLING	613
1X9	TERMINAL; CONTROL - MODBUS	438
1X10	TERMINAL; POWER DISTRIBUTION - FREE COOLING	541
1XJ1	TERMINAL; USB - SERVICE PORT	409
1XJ2	OUTLET; CONVENIENCE 15A	653
1XJ3	TERMINAL; SERVICE PORT - VFD 1	59
1XJ4	TERMINAL; SERVICE PORT - VFD 2	126
1XJ5	OUTLET; CONVENIENCE 20A	662
1XJ31	JACK; COOLING PUMP MOTOR - CIRCUIT 1	57
1XJ32	JACK; HEATERS - COMPRESSOR 1A	61
1XJ33	JACK; OIL SEPARATOR HEATER - CIRCUIT 1	66
1XJ34	JACK; HIGH PRESSURE CUTOUT - CIRCUIT 1	56
1XJ35	JACK; CONDENSER FAN POWER - CIRCUIT 1 BANK 1	179
1XJ36	JACK; CONDENSER FAN POWER - CIRCUIT 1 BANK 2	199
1XJ37	JACK; CONDENSER FAN CONTROL - CIRCUIT 1 BANK 1	176
1XJ38	JACK; CONDENSER FAN CONTROL - CIRCUIT 1 BANK 2	176
1XJ39	JACK; CONDENSER FAN CONTROL - CIRCUIT 1 SHARED	178
1XJ41	JACK; COOLING PUMP MOTOR - CIRCUIT 2	122
1XJ42	JACK; COMPRESSOR 2A HEATERS	126
1XJ43	JACK; OIL SEPARATOR HEATER - CIRCUIT 2	131
1XJ44	JACK; HIGH PRESSURE CUTOUT - CIRCUIT 2	123
1XJ45	JACK; CONDENSER FAN POWER - CIRCUIT 2 BANK 1	254
1XJ46	JACK; CONDENSER FAN POWER - CIRCUIT 2 BANK 2	274
1XJ47	JACK; CONDENSER FAN CONTROL - CIRCUIT 2 BANK 1	251
1XJ48	JACK; CONDENSER FAN CONTROL - CIRCUIT 2 BANK 2	251

DEVICE	DESCRIPTION	ZONE
1XJ49	JACK; CONDENSER FAN CONTROL - CIRCUIT 2 SHARED	251
1XJ50	JACK, SERVICE POWER CONNECTION	33
1XJ51	JACK: MOTOR WINDING TEMPERATURE SENSOR - COMPRESSOR 1A	305
1XJ52	JACK: MOTOR WINDING TEMPERATURE SENSOR - COMPRESSOR 2A	305
1XJ55	JACK; TRANSFORMER / FILTER COOLING FANS AND OVERTEMP SWITCH	140
1XJ60	JACK; EVAPORATOR HEATERS	652
1XJ61	JACK; WATER FLOW SENSOR POWER	313
1XJ62	JACK; WATER FLOW SENSOR SIGNAL	316
1XJ63	JACK; OIL LOSS LEVEL SENSOR - CIRCUIT 1	330
1XJ64	JACK; OIL LOSS LEVEL SENSOR - CIRCUIT 2	332
1XJ65	JACK; OIL LOSS LEVEL SENSOR POWER - CIRCUIT 2	323
1XJ66	JACK; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 1	348
1XJ67	JACK; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 2	351
1XJ68	JACK; HARMONIC FILTER CAPACITOR CONTACTOR - CIRCUIT 1 AND 2	45
1XJ69	JACK; LEFT / RIGHT VARIABLE VI SOLENOID - COMPRESSOR 1A	382
1XJ70	JACK; LEFT / RIGHT VARIABLE VI SOLENOID - COMPRESSOR 2A	390
1XJ71	JACK; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 1	348
1XJ72	JACK; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 2	351
1XJ75	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	460
1XJ76	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	454
1XJ77	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	461
1XJ78	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	455
1XJ79	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	467
1XJ80	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	472
1XJ81	JACK; FREE COOLING FAN POWER	624
1XJ82	JACK; FREE COOLING FAN POWER	634
1XJ83	JACK; FREE COOLING FAN CONTROL	621
1XJ84	JACK; INDIRECT FREE COOLING FLOW SWITCH	539
1XJ85	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	485
1XJ87	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	486
1XJ89	JACK; FREE COOLING WATER VALVE ACTUATOR - POWER	492
1XP31	PLUG; VFD COOLING PUMP MOTOR - CIRCUIT 1	57
1XP32	PLUG; HEATER POWER - COMPRESSOR 1A	61
1XP33	PLUG; OIL SEPARATOR HEATER - CIRCUIT 1	66
1XP34	PLUG; HIGH PRESSURE CUTOUT - CIRCUIT 1	56
1XP35	PLUG; CONDENSER FAN POWER - CIRCUIT 1 BANK 1	179
1XP36	PLUG; CONDENSER FAN POWER - CIRCUIT 1 BANK 2	199
1XP37	PLUG; CONDENSER FAN CONTROL - CIRCUIT 1 BANK 1	175
1XP38	PLUG; CONDENSER FAN CONTROL - CIRCUIT 1 BANK 2	175
1XP39	PLUG; CONDENSER FAN CONTROL - CIRCUIT 1 SHARED	177
1XP41	PLUG; VFD COOLING PUMP MOTOR - CIRCUIT 2	122
1XP42	PLUG; HEATER POWER - COMPRESSOR 2A	126
1XP43	PLUG; OIL SEPARATOR HEATER - CIRCUIT 2	131
1XP44	PLUG; HIGH PRESSURE CUTOUT - CIRCUIT 2	123
1XP45	PLUG; CONDENSER FAN POWER - CIRCUIT 2 BANK 1	254
1XP46	PLUG; CONDENSER FAN POWER - CIRCUIT 2 BANK 2	274
1XP47	PLUG; CONDENSER FAN CONTROL - CIRCUIT 2 BANK 1	250
1XP48	PLUG; CONDENSER FAN CONTROL - CIRCUIT 2 BANK 2	250
1XP49	PLUG; CONDENSER FAN CONTROL - CIRCUIT 2 SHARED	250
1XP50	PLUG, SERVICE POWER CONNECTION	34
1XP51	PLUG: MOTOR WINDING TEMPERATURE SENSOR - COMPRESSOR 1A	305
1XP52	PLUG: MOTOR WINDING TEMPERATURE SENSOR - COMPRESSOR 2A	305
1XP55	PLUG; TRANSFORMER / FILTER COOLING FANS AND OVERTEMP SWITCH	140
1XP60	PLUG; EVAPORATOR HEATERS	652
1XP61	PLUG; WATER FLOW SENSOR POWER	313
1XP62	PLUG; WATER FLOW SENSOR SIGNAL	317
1XP63	PLUG; OIL LOSS LEVEL SENSOR - CIRCUIT 1	330
1XP64	PLUG; OIL LOSS LEVEL SENSOR - CIRCUIT 2	331
1XP65	PLUG; OIL LOSS LEVEL SENSOR POWER - CIRCUIT 2	322
1XP66	PLUG; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 1	348
1XP67	PLUG; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 2	351
1XP68	PLUG; HARMONIC FILTER CAPACITOR CONTACTOR - CIRCUIT 1 AND 2	45
1XP69	PLUG; LEFT / RIGHT VARIABLE VI SOLENOID - COMPRESSOR 1A	382
1XP70	PLUG; LEFT / RIGHT VARIABLE VI SOLENOID - COMPRESSOR 2A	390
1XP71	PLUG; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 1	348
1XP72	PLUG; DRIVE COOLING 3-WAY VALVE MOTOR - CIRCUIT 2	351
1XP75	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	460
1XP76	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	454
1XP77	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	461
1XP78	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	455
1XP79	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	467
1XP80	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	472
1XP81	PLUG; FREE COOLING FAN POWER	624
1XP82	PLUG; FREE COOLING FAN POWER	634
1XP83	PLUG; FREE COOLING FAN CONTROL	620
1XP84	PLUG; FLOW SWITCH - INDIRECT FREE COOLING	539
1XP85	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	485
1XP86	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	482
1XP87	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	486
1XP89	PLUG; FREE COOLING WATER VALVE ACTUATOR - POWER	492
2B11	THERMOSTAT; OPTIONS VENTILATION FAN ENABLE SWITCH	136
2C1	CAPACITOR; HARMONIC FILTER - CIRCUIT 1 BANK 1	19
2C2	CAPACITOR; HARMONIC FILTER - CIRCUIT 1 BANK 2	19
2C3	CAPACITOR; HARMONIC FILTER - CIRCUIT 2 BANK 1	94
2C4	CAPACITOR; HARMONIC FILTER - CIRCUIT 2 BANK 2	94
2K1	CONTACTOR; HARMONIC FILTER CAPACITOR - CIRCUIT 1	45
2K7	CONTACTOR; HARMONIC FILTER CAPACITOR - CIRCUIT 2	112
2Q1	CIRCUIT BREAKER; SINGLE POINT POWER	4
2RF1	INDUCTOR; HARMONIC FILTER - CIRCUIT 1	2
2RF2	INDUCTOR; HARMONIC FILTER - CIRCUIT 2	77
2T19	TRANSFORMER; VOLTAGE AUTOMATIC 200-230V OR 575V	8
3B1	SWITCH; HIGH PRESSURE CUTOUT - CIRCUIT 1	56
3B9	SWITCH; HARMONIC FILTER OVER TEMPERATURE - CIRCUIT 1	50
3BL1	TRANSDUCER; EVAPORATOR REFRIGERANT LIQUID LEVEL - CIRCUIT 1	403
3BL3	SWITCH; OIL LOSS LEVEL - CIRCUIT 1	325
3BP1	TRANSDUCER; SUCTION REFRIGERANT PRESSURE - CIRCUIT 1	409
3BP3	TRANSDUCER; OIL PRESSURE - COMPRESSOR 1A	412
3BP5	TRANSDUCER; CONDENSER REFRIGERANT PRESSURE - CIRCUIT 1	415
3BT1	TRANSDUCER; DISCHARGE TEMPERATURE - COMPRESSOR 1A	418
3BT5	TRANSDUCER; EVAPORATOR REFRIGERANT POOL TEMPERATURE - CIRCUIT 1	421
3BT7	TRANSDUCER; MOTOR WINDING TEMPERATURE RTD - COMPRESSOR 1A	305
3BT9	TRANSDUCER; MOTOR WINDING TEMPERATURE RTD - COMPRESSOR 1A	306
3BT11	TRANSDUCER; DRIVE COOLING SUPPLY TEMPERATURE - CIRCUIT 1	424
3E1	HEATER; IMMERSION - COMPRESSOR 1A	61
3E3	HEATER; DISCHARGE AND BEARING - COMPRESSOR 1A	62
3E5	HEATER; OIL SEPARATOR - CIRCUIT 1	66
3L1	SOLENOID; LEFT VARIABLE VI - COMPRESSOR 1A	382
3L2	SOLENOID; RIGHT VARIABLE VI - COMPRESSOR 1A	380
3M1	MOTOR; SCREW COMPRESSOR - 1A	31
3M3	MOTOR; VFD COOLING PUMP - CIRCUIT 1	57
3M11	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 1	179
3M12	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 2	199
3M13	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 3	184
3M14	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 4	204
3M15	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 5	189
3M16	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 6	209
3M17	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 7	194
3M18	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 8	214
3M19	MOTOR; CONDENSER FAN - CIRCUIT 1 FAN 9	219
3M23	MOTOR; ELECTRONIC EXPANSION VALVE - CIRCUIT 1	406
3M35	MOTOR; DRIVE COOLING 3-WAY VALVE - CIRCUIT 1	344
3X1	TERMINAL; OIL SEPARATOR - CIRCUIT 1	315
4B2	SWITCH; HIGH PRESSURE CUTOUT - CIRCUIT 2	123
4B10	SWITCH; HARMONIC FILTER OVER TEMPERATURE - CIRCUIT 2	117

DEVICE	DESCRIPTION	ZONE
4BL2	TRANSDUCER; EVAPORATOR REFRIGERANT LIQUID LEVEL - CIRCUIT 2	424
4BL4	SWITCH; OIL LOSS LEVEL - CIRCUIT 2	338
4BP2	TRANSDUCER; SUCTION REFRIGERANT PRESSURE - CIRCUIT 2	430
4BP4	TRANSDUCER; OIL PRESSURE - COMPRESSOR 2A	433
4BP6	TRANSDUCER; CONDENSER REFRIGERANT PRESSURE - CIRCUIT 2	436
4BT2	TRANSDUCER; DISCHARGE TEMPERATURE - COMPRESSOR 2A	439
4BT6	TRANSDUCER; MOTOR WINDING TEMPERATURE RTD - COMPRESSOR 2A	305
4BT8	TRANSDUCER; MOTOR WINDING TEMPERATURE RTD - COMPRESSOR 2A	306
4BT10	TRANSDUCER; EVAPORATOR REFRIGERANT POOL TEMPERATURE - CIRCUIT 2	442
4BT12	TRANSDUCER; DRIVE COOLING SUPPLY TEMPERATURE - CIRCUIT 2	445
4E2	HEATER; IMMERSION - COMPRESSOR 2A	126
4E4	HEATER; DISCHARGE AND BEARING - COMPRESSOR 2A	127
4E6	HEATER; OIL SEPARATOR - CIRCUIT 2	131
4L3	SOLENOID; LEFT VARIABLE VI - COMPRESSOR 2A	390
4L4	SOLENOID; RIGHT VARIABLE VI - COMPRESSOR 2A	388
4M2	MOTOR; SCREW COMPRESSOR - 2A	98
4M4	MOTOR; VFD COOLING PUMP - CIRCUIT 2	122
4M21	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 1	254
4M22	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 2	274
4M23	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 3	259
4M24	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 4	279
4M25	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 5	264
4M26	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 6	284
4M27	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 7	269
4M28	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 8	289
4M29	MOTOR; ELECTRONIC EXPANSION VALVE - CIRCUIT 2	427
4M30	MOTOR; CONDENSER FAN - CIRCUIT 2 FAN 9	294
4M36	MOTOR; DRIVE COOLING 3-WAY VALVE - CIRCUIT 2	344
4X1	TERMINAL; OIL SEPARATOR - CIRCUIT 2	333
5K26	RELAY; ALARM STATUS (DEFAULT - PROGRAMMABLE)	345
5K27	RELAY; ALARM STATUS (DEFAULT - PROGRAMMABLE)	344
5K28	RELAY; COMPRESSOR RUNNING STATUS (DEFAULT - PROGRAMMABLE)	342
5K29	RELAY; COMPRESSOR RUNNING STATUS (DEFAULT - PROGRAMMABLE)	341
5K30	RELAY; MAXIMUM CAPACITY STATUS (DEFAULT - PROGRAMMABLE)	339
5K31	RELAY; MAXIMUM CAPACITY STATUS (DEFAULT - PROGRAMMABLE)	338
5K32	RELAY; UNIT LIMIT MODE STATUS (DEFAULT - PROGRAMMABLE)	336
5K33	RELAY; UNIT LIMIT MODE STATUS (DEFAULT - PROGRAMMABLE)	335
5K34	RELAY; ICE MAKING STATUS	351
5K35	RELAY; EVAPORATOR WATER PUMP STARTER	365
5K36	RELAY; EXTERNAL LOCKOUT CONTACT - CIRCUIT 1	355
5K37	RELAY; EXTERNAL LOCKOUT CONTACT - CIRCUIT 2	357
5K38	RELAY; EXTERNAL INPUT CONTACT - AUTO STOP	363
5K39	RELAY; EXTERNAL INPUT CONTACT - EMERGENCY STOP	365
5K40	RELAY; EXTERNAL INPUT CONTACT - ICE MAKING CONTROL	370
5K41	RELAY; EXTERNAL NOISE REDUCTION REQUEST CONTACT	372
5Y1	BUILDING AUTOMATION; OPTIONAL WI-FI INTERFACE	412
5Y2	BUILDING AUTOMATION; OPTIONAL LTE INTERFACE	416
5Y3	BUILDING AUTOMATION; OPTIONAL AIR-FI INTERFACE	397
6B1-BLU	THERMOSTAT; PUMP PACKAGE ENCLOSURE - COOLING	704
6B1-RED	THERMOSTAT; PUMP PACKAGE ENCLOSURE - HEATING	703
6B2	THERMOSTAT; PUMP PACKAGE WATER HEATERS	708
6B3	THERMOSTAT; PUMP PACKAGE HARMONIC FILTER ENCLOSURE	729
6B10	THERMOSTAT; EVAPORATOR HEATER CONTROL	652
6B12	THERMOSTAT; OPTIONS TRANSFORMER PANEL FAN ENABLE	136
6BF1	SWITCH; CHILLED WATER FLOW THERMAL DISPERSION	316
6BF2	SWITCH; INDIRECT FREE COOLING GLYCOL FLOW THERMAL DISPERSION	541
6BP11	TRANSDUCER; FREE COOLING GLYCOL PRESSURE	442
6BP12	TRANSDUCER; EVAPORATOR WATER INLET PRESSURE	445
6BP13	TRANSDUCER; EVAPORATOR WATER OUTLET PRESSURE	448
6BT5	TRANSDUCER; EVAPORATOR ENTERING WATER TEMPERATURE	427
6BT6	TRANSDUCER; EVAPORATOR LEAVING WATER TEMPERATURE	430
6BT7	TRANSDUCER; OUTDOOR AIR TEMPERATURE	433
6BT8	TRANSDUCER; FREE COOLING ENTERING WATER TEMPERATURE	448
6BT10	TRANSDUCER; FREE COOLING ENTERING GLYCOL TEMPERATURE	436
6BT11	TRANSDUCER; FREE COOLING GLYCOL LEAVING TEMPERATURE	439
6E7	HEATER; EVAPORATOR IMMERSION	652
6E8	HEATER; EVAPORATOR IMMERSION	653
6E9	HEATER; EVAPORATOR IMMERSION	654
6E12	HEATER; INTEGRATED FREE COOLING BPHE IMMERSION 1	555
6E13	HEATER; INTEGRATED FREE COOLING BPHE IMMERSION 2	558
6E14	HEATER; INTEGRATED FREE COOLING PIPE 1	561
6E15	HEATER; INTEGRATED FREE COOLING PIPE 2	564
6E16	HEATER; INTEGRATED FREE COOLING PIPE 3	567
6E17	HEATER; INTEGRATED FREE COOLING PIPE 4	570
6E18	HEATER; INTEGRATED FREE COOLING PIPE 5	573
6E19	HEATER; INTEGRATED FREE COOLING PIPE 6	576
6E20	HEATER; INTEGRATED FREE COOLING PIPE 7	579
6E21	HEATER; INTEGRATED FREE COOLING PIPE 8	581
6E22	HEATER; INTEGRATED FREE COOLING PIPE 9	584
6E23	HEATER; INTEGRATED FREE COOLING PIPE 10	587
6E24	HEATER; INTEGRATED FREE COOLING PIPE 11	591
6E25	HEATER; PUMP PACKAGE ENCLOSURE 1	703
6E26	HEATER; PUMP PACKAGE ENCLOSURE 2	703
6E27	HEATER; EVAPORATOR PUMP PACKAGE IMMERSION 1	708
6E28	HEATER; EVAPORATOR PUMP PACKAGE IMMERSION 2	709
6E29	HEATER; EVAPORATOR PUMP PACKAGE IMMERSION 3	710
6E30	HEATER; EVAPORATOR PUMP PACKAGE IMMERSION 4	711
6F1	FUSE; EVAPORATOR PUMP PACKAGE - CLASS T	688
6F2	FUSE; EVAPORATOR PUMP PACKAGE - CLASS T	689
6F3	FUSE; EVAPORATOR PUMP PACKAGE - CLASS T	690
6F4	FUSE; EVAPORATOR PUMP PACKAGE TRANSFORMER CLASS CC	695
6F5	FUSE; EVAPORATOR PUMP PACKAGE TRANSFORMER CLASS CC	698
6F6	FUSE; EVAPORATOR PUMP PACKAGE TRANSFORMER CLASS CC	704
6F65	CIRCUIT BREAKER; EVAPORATOR PUMP PACKAGE HEATER	708
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DIAGRAM
SCHEMATIC WIRING

DEVICE DESIGNATIONS AND DESCRIPTIONS

ACRB GP4 - 2 COMPRESSORS

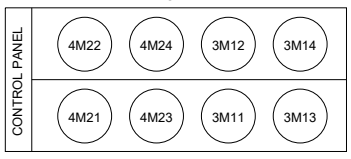
DRAWING NUMBER 23115509

REV E

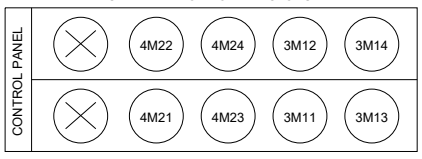
DEVICE LOCATION, WARNING, NOTICE, AND NOTES

CONDENSER FAN LOCATIONS

4V UNITS



4V UNITS WITH OPTIONS ENCLOSURE



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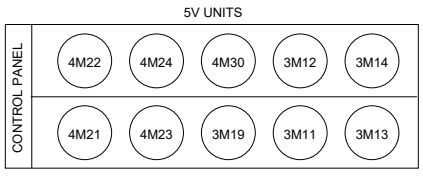
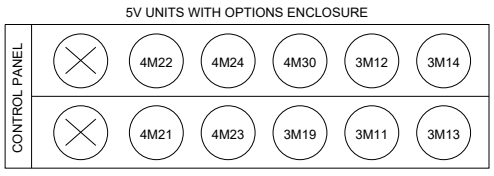


5V UNITS WITH OPTIONS ENCLOSURE



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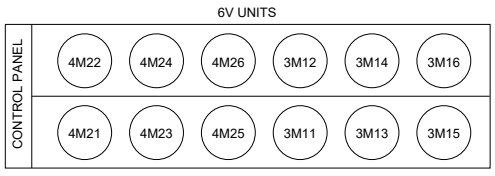
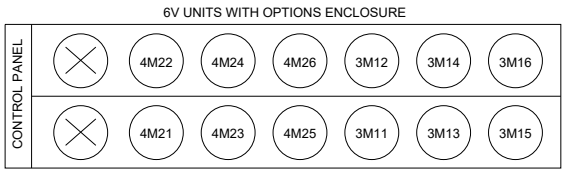
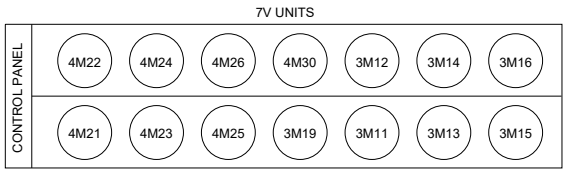


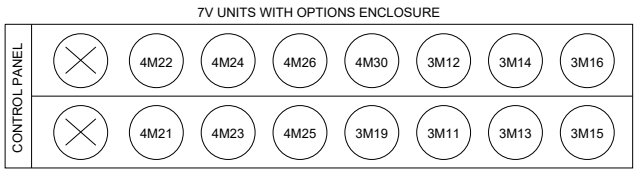
6V UNITS WITH OPTIONS ENCLOSURE



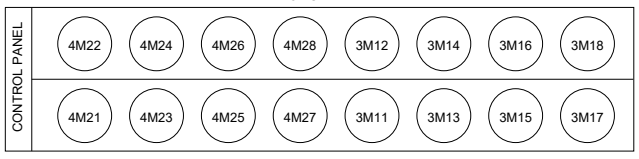
7V UNITS



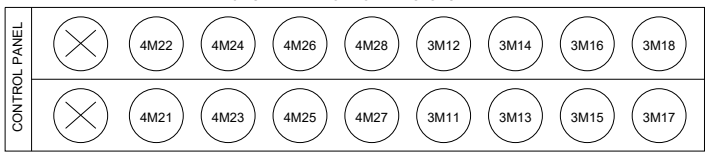
7V UNITS WITH OPTIONS ENCLOSURE



8V UNITS

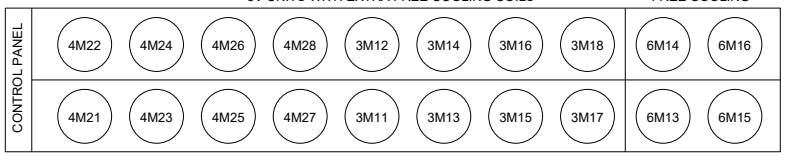


8V UNITS WITH OPTIONS ENCLOSURE



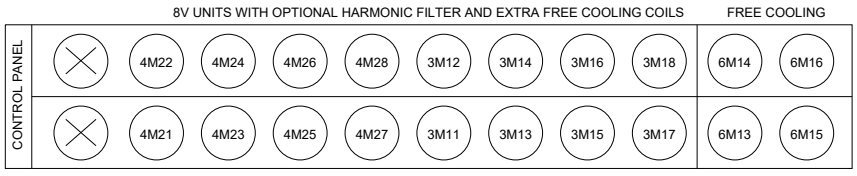
8V UNITS WITH EXTRA FREE COOLING COILS

FREE COOLING



8V UNITS WITH OPTIONAL HARMONIC FILTER AND EXTRA FREE COOLING COILS

FREE COOLING



DEVICE PREFIX & LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL DEVICES
2	VOLTAGE AUTOTRANSFORMER
3	CIRCUIT 1 DEVICES
4	CIRCUIT 2 DEVICES
5	CUSTOMER PROVIDED DEVICES
6	UNIT MOUNTED DEVICES

⚠WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE, PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

UN MANQUEMENT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

⚠ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

NOTICE

USE COPPER CONDUCTORS ONLY!

FAILURE TO USE COPPER CONDUCTORS COULD RESULT IN EQUIPMENT DAMAGE AS THE EQUIPMENT WAS NOT DESIGNED OR QUALIFIED TO ACCEPT OTHER TYPES OF CONDUCTORS.

AVIS

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

L'UTILISATION DE MATÉRIAUX, AUTRES QUE LE CUIVRE, PEUT ENDOMMAGER L'ÉQUIPEMENT, CELUI-CI N'AYANT PAS ÉTÉ CONÇU OU HOMOLOGUÉ POUR ACCEPTER D'AUTRES TYPES DE CONDUCTEURS.

AVISO

¡UTILICE CONDUCTORES DE COBRE SOLAMENTE!

SI NO UTILIZA CONDUCTORES DE COBRE, EL EQUIPO PODRÍA SUFRIR DAÑOS, YA QUE NO HA SIDO DISEÑADO NI CALIFICADO PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER REMOVED AND AFTER NORMAL SHUTDOWN HAS OCCURRED.
2. WIRE REPRESENTED BY DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. WIRE REPRESENTED BY SOLID LINES INDICATE FACTORY INSTALLED WIRING.
3. DASHED LINE ENCLOSED INSETS INDICATE OPTIONAL FACTORY INSTALLED OR CUSTOMER PROVIDED AND INSTALLED COMPONENTS.
4. DEVICE DESIGNATIONS AND LINE NUMBERING ADJACENT TO DEVICES DESIGNATE THE LOCATION OF THE DEVICE CONTACTS.
5. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL CODES.
6. CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR BE GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRING INSULATION IS REQUIRED TO BE RATED AT 300V MINIMUM.
7. NUMBER OF COIL MODULES IS DEFINED IN THE MODEL NUMBER BY DIGIT 25; A=4V, B=5V, C=6V, D=7V, E=8V.
8. ALL STANDARD AND OPTIONAL COMPONENTS SHOWN.

FLAG NOTES:

1. ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION TEMPERATURE RATING OF 90°C.
2. RELAY RATING AT 120VAC: 7.2A RESISTIVE, 2.88A PILOT DUTY, 1/3 HP, 7.2 FLA. RELAY RATING AT 240VAC: 5A GENERAL PURPOSE.
3. CONDENSER FAN MOUNTED ON LEFT SIDE OF CHILLER WHEN FACING CONTROL PANEL.
4. CONDENSER FAN MOUNTED ON RIGHT SIDE OF CHILLER WHEN FACING CONTROL PANEL.
5. DO NOT WIRE SHIELD TO GROUND IN THE JUNCTION BOX. SHIELD IS ATTACHED INTERNALLY TO GROUND AT THE SENSOR.
6. WIRE INDIRECT FREE COOLING CIRCULATION PUMP PER MOTOR NAMEPLATE DIAGRAM
7. EVAPORATOR PUMP, 6M10, FUSING, 1F60-1F62, IS BASED ON THE HORSEPOWER OF 6M10; SEE TABLE ON SHEET 12.

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DIAGRAM
SCHEMATIC WIRING

DEVICE LOCATION, WARNING, NOTICE, AND NOTES

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 2 OF 12

REV E

CUSTOMER SUPPLIED INCOMING LINE VOLTAGE SEE UNIT NAMEPLATE

INSET B — WITHOUT VOLTAGE AUTO-TRANSFORMER

INSET C — OPTIONAL HARMONIC FILTER - CIRCUIT 1 208A, 240A, 320A AND 403A INPUT

INSET C — OPTIONAL HARMONIC FILTER - CIRCUIT 1 482A AND 636A INPUT

OPTIONAL VOLTAGE AUTO TRANSFORMER 200-230-575V ONLY

OPTIONAL CHILLER POWERED HEATERS AND CONVENIENCE OUTLET, INDIRECT FREE COOLING, AND/OR POWER METERING

WIRE 64A AND 65A ARE USED TO BOND THE MAIN UNIT CONTROL PANEL TO GROUND

NO WIRE CONNECTIONS ARE TO BE MADE TO THE NEUTRAL SIDE OF THIS COMPONENT

TABLE A - 1T10, 1T11 AND 2T19 PRIMARY TAP CONNECTIONS AND FUSE SIZES

UNIT LINE VOLTAGE	1T10 PRIMARY LINE VOLTAGE	1T10 SECONDARY VOLTAGE	1T10 PRIMARY TAPS		1F33-1F34 FUSES WITH / WITHOUT HARMONIC FILTER	1T11 PRIMARY TAPS	2T19 PRIMARY TAPS WITH OPTIONAL VOLTAGE AUTOTRANSFORMER
			WITH OPTIONAL HARMONIC FILTER	WITHOUT OPTIONAL HARMONIC FILTER			
200VAC 60HZ	460VAC 60HZ	115VAC 60HZ	NA	H1 AND H4	5A, CLASS CC	H1 AND H3	H1, H2 AND H3
230VAC 60HZ	460VAC 60HZ	115VAC 60HZ	NA	H1 AND H4	5A, CLASS CC	H1 AND H3	H4, H5 AND H6
380VAC 50HZ	380VAC 50HZ	110VAC 50HZ	H1 AND H2	H1 AND H2	6A / 4A, CLASS CC	H1 AND H2	NA
380VAC 60HZ	380VAC 60HZ	115VAC 60HZ	H1 AND H3	H1 AND H3	6A / 4A, CLASS CC	H1 AND H3	NA
400VAC 50HZ	400VAC 50HZ	110VAC 50HZ	H1 AND H3	H1 AND H3	6A / 4A, CLASS CC	H1 AND H2	NA
460VAC 60HZ	460VAC 60HZ	115VAC 60HZ	H1 AND H4	H1 AND H5	5A / 3A, CLASS CC	H1 AND H3	NA
575VAC 60HZ	460VAC 60HZ	115VAC 60HZ	NA	H1 AND H4	5A, CLASS CC	H1 AND H3	H1, H2 AND H3

DEVICE PREFIX & LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL DEVICES
2	VOLTAGE AUTOTRANSFORMER
3	CIRCUIT 1 DEVICES
4	CIRCUIT 2 DEVICES
5	CUSTOMER PROVIDED DEVICES
6	UNIT MOUNTED DEVICES

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DIAGRAM SCHEMATIC WIRING

CIRCUIT 1 VARIABLE FREQUENCY DRIVE

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 3 OF 12

REV E

INSET E
OPTIONAL HARMONIC FILTER - CIRCUIT 2
208A, 240A, 320A AND 403A INPUT

2RF2
U1 U2 21A 1T2-L1/R LINE 98
V1 V2 22A 1T2-L2/S LINE 99
W1 W2 23A 1T2-L3/T LINE 100
HARMONIC FILTER ENCLOSURE GND
U4 V4 W4
7B 8B 9B
1 3 5
1F38
2 4 6
1B 2B 3B
1Q1-1 LINE 18
1Q1-3 LINE 18
1Q1-5 LINE 18
62A DRIVE PANEL GND
261A 263A
2K7 1 2 2K7 5 6
271A 262A 273A
V4
U4 2C3 W4

INSET E

INSET E
OPTIONAL HARMONIC FILTER - CIRCUIT 2
482A AND 636A INPUT

2RF2
U1 U2 21A 1T2-L1/R LINE 98
V1 V2 22A 1T2-L2/S LINE 99
W1 W2 23A 1T2-L3/T LINE 100
HARMONIC FILTER ENCLOSURE GND
U4 V4 W4
7B 8B 9B
1 3 5
1F38
2 4 6
1B 2B 3B
1Q1-1 LINE 18
1Q1-3 LINE 18
1Q1-5 LINE 18
61A DRIVE PANEL GND
241A 243A
2K7 1 2 2K7 5 6
217A,B 262A,B 273A,B
217A 262A 273A 271B 262B 273B
V4 V4
U4 2C3 W4 U4 2C4 W4

INSET E

TO LINE 39
1F 2F 3F

SEE INSET E OPTIONAL HARMONIC FILTER
1F 7C,D,E L1/R
2F 8C,D,E L2/S
3F 9C,D,E L3/T

1T17
T1/U 29A T1
T2/V 30A T2
T3/W 31A T3
4M2 M 3Ø
PE 32A
GND
PE GRN DRIVE PANEL GND

7E 8E 9E TO LINE 629
7C 7D 8C 8D 9C 9D TO LINE 251
EXTRA FREE COOLING FANS ONLY

1T2 AFD POWER MODULE

2A35 AUX POWER
AP+ (1) 406A
AP- (2) 407A
Sh (3)

R0NO (6) 436A 1K41 A B 202P
1K41-122,126,131,138
R0C (5) 201P
R0NC (4)
TB2
R1NO (3)
R1C (2)
R1NC (1)
I/O CARD

TO 1X3-8 LINE 74
TO 1X3-3 LINE 73
202P 1X3-8
201P 1X3-3
TO 1T2 TB2-R1C LINE 113 201Z 1X3-4
OPTIONAL HARMONIC FILTER
TO 1XP68-4 LINE 113 202AG 202AG 1X3-9

2K7
202AH 438B 438A
1XP68-4 1XJ68-4 A2 2K7-86 A1 1XJ68-3 1XP68-3
202AG TO 1X3-9 LINE 112 TO 1X3-4 LINE 111 201Z
OPTIONAL HARMONIC FILTER

407A 406A
4 3 2 1 4 3 2 1 4 3 2 1
J3 J4 J5
1T14 DC POWER SUPPLY MODULE
WB3 TO 1T13 J1 LINE 53
J11
J1
WB2 TO 1T15 J11 LINE 379
3 2 1 J2
212A 204B 203B
CONTROL SUBPANEL GND
TO 1T11-X2 LINE 52
TO 1T11-X1 LINE 52

24VC (9) 433A
+24V (8) 424A
TB1
Di C (7) 433A
Di 0 (6) 441A
1X3-14 1X3-15 JUMPER
SEE INSET F

INSET F
1X3-14 424F 424G 4B10
1XP55-12 1XJ55-12 T1 T2
1X3-15 441C 441D
1XP55-11 1XJ55-11
OPTIONAL HARMONIC FILTER
INSET F

Di 0 ac (5)
Di C (4) 413A
Di 0 dc (3) 410A 1XP44-1 410B 1XJ44-1 SPLICE BLK 4B2 P
TB1
+24V (2) 411A 1XP44-2 411B 1XJ44-2 SPLICE BLK
24VC (1) 413A
MCB
ETHERNET J12 EN3 1XJ4
DRIVE CIRCUIT 2 SERVICE PORT

INSET F
1X3-14 424E 1K42 6 9
1X3-15 441B
OPTIONAL VOLTAGE AUTOTRANSFORMER
INSET F

4M4 M 1Ø
231A G L N
214B 1XJ41-1 214A 1XP41-1 1K41 6 9 201K 1X3-2
202X 1XJ41-2 202K 1XP41-2 202K 1X3-7
DRIVE PANEL GND

SPLICE BLK 4E2 BLK SPLICE 215B 1XP42-1 215A 1XJ42-1 1K41 2 8 201L 1X3-3
BLK 4E4 BLK
G/Y DRIVE PANEL GND
202V 1XP42-2 202M 1XJ42-2 202M 1X3-8

4X1-4 WHT 4E6 BLK 4X1-5 229B 1XP43-1 229A 1XJ43-1 1K41 3 9 201M 1X3-3
G/Y 479A SHIELD TO 4BL4 LINE 331
4X1-6
DRIVE PANEL GND
202U 1XP43-2 202L 1XJ43-2 202L 1X3-8

2A34 MODBUS COM CARD
MODBUS
SIG A (2) SIG B (3) SIG COM (4) GND (6)
WHT BLK GRN SHIELD
SHIELD GROUNDED THIS END ONLY
WB7
TO 1K1-P2 LINE 433 OR 1X9 LINE 437

240A 1XP55-7 240K 1XJ55-7 6B12 201Y 1XJ55-8 201V 1XP55-8
240B 1K41 5 8 201U
240B,C 1K40 5 8 201T
1K42 202D B A 1K42-56,123 210A 1XP55-9 210B 1XJ55-9 2B11 T2 T1 201X 1XJ55-10 201W 1XP55-10 1X3-3
202D 1X3-8
OPTIONAL VOLTAGE AUTO-TRANSFORMER 200-230-575V ONLY

6M31 M 1Ø BLK 240D,E 240D 1XJ55-1 240H 1XP55-1 240H,J 1X3-11 240A,C 201T,U,V 1X3-4
BLK 202AA,AB 202AA 1XJ55-3 202AE 1XP55-3 202AE,AF 1X3-9
GRN 129A,B 129A 1XJ55-5 129C 1XP55-5 DRIVE PANEL GND
6M33 M 1Ø BLK 240E
BLK 202AB
GRN 129B
6M32 M 1Ø BLK 240F,G 240F 1XJ55-2 240J 1XP55-2
BLK 202AC,AD 202AC 1XJ55-4 202AF 1XP55-4
GRN 130A,B 130A 1XJ55-6 130C 1XP55-6 DRIVE PANEL GND
6M34 M 1Ø BLK 240G
BLK 202AD
GRN 130B
COMPONENTS FOR OPTIONAL HARMONIC FILTER OR OPTIONAL VOLTAGE AUTO-TRANSFORMER

TO 1X3-5 LINE 380 TO 1X3-10 LINE 381

DEVICE PREFIX & LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL DEVICES
2	VOLTAGE AUTOTRANSFORMER
3	CIRCUIT 1 DEVICES
4	CIRCUIT 2 DEVICES
5	CUSTOMER PROVIDED DEVICES
6	UNIT MOUNTED DEVICES

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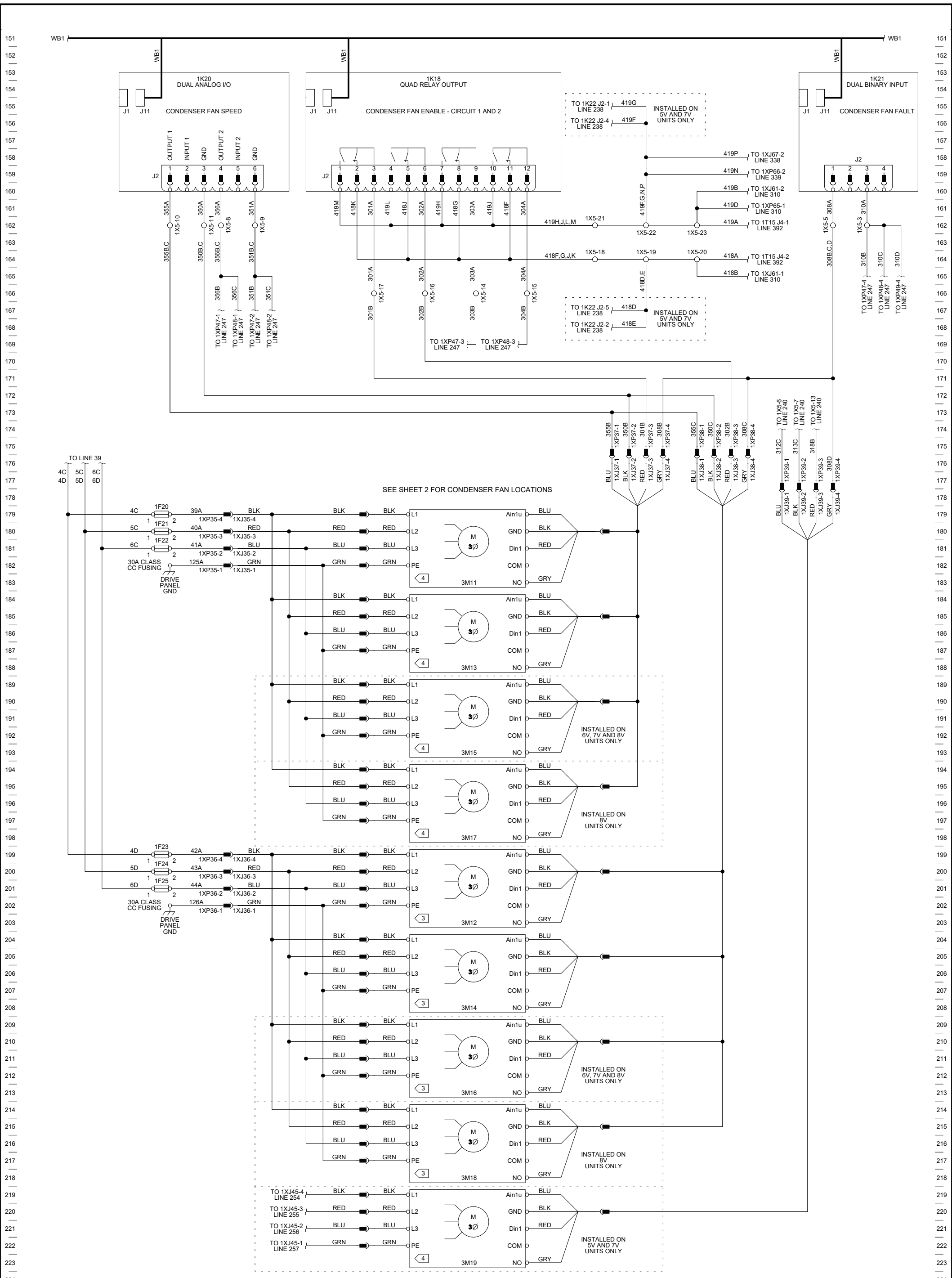
DIAGRAM SCHEMATIC WIRING

CIRCUIT 2 VARIABLE FREQUENCY DRIVE

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509
SHEET 4 OF 12
REV E



DEVICE PREFIX & LOCATION CODE	
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DIAGRAM SCHEMATIC WIRING

CIRCUIT 1 CONDENSER FANS

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 5 OF 12

REV E

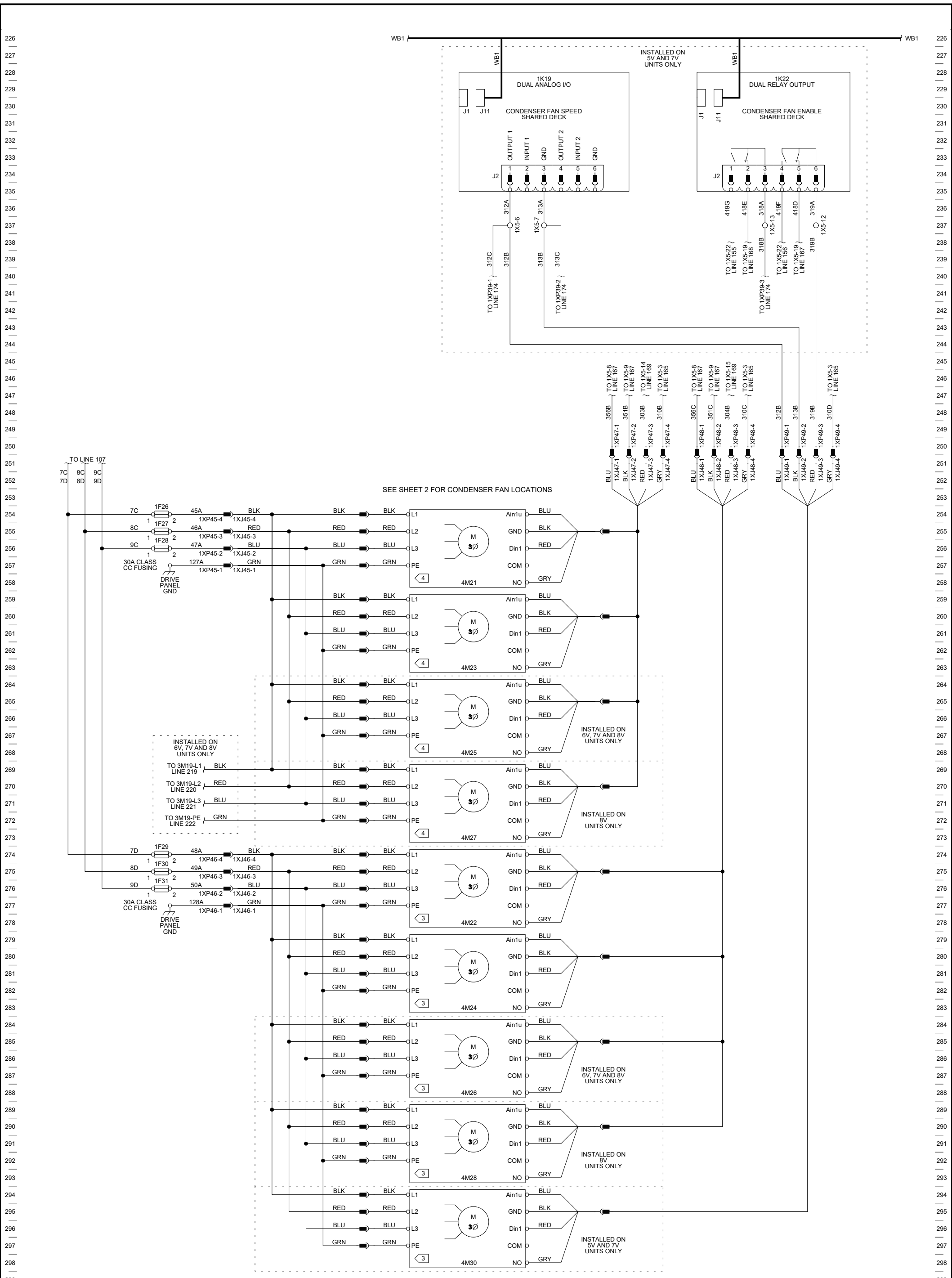

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DIAGRAM SCHEMATIC WIRING

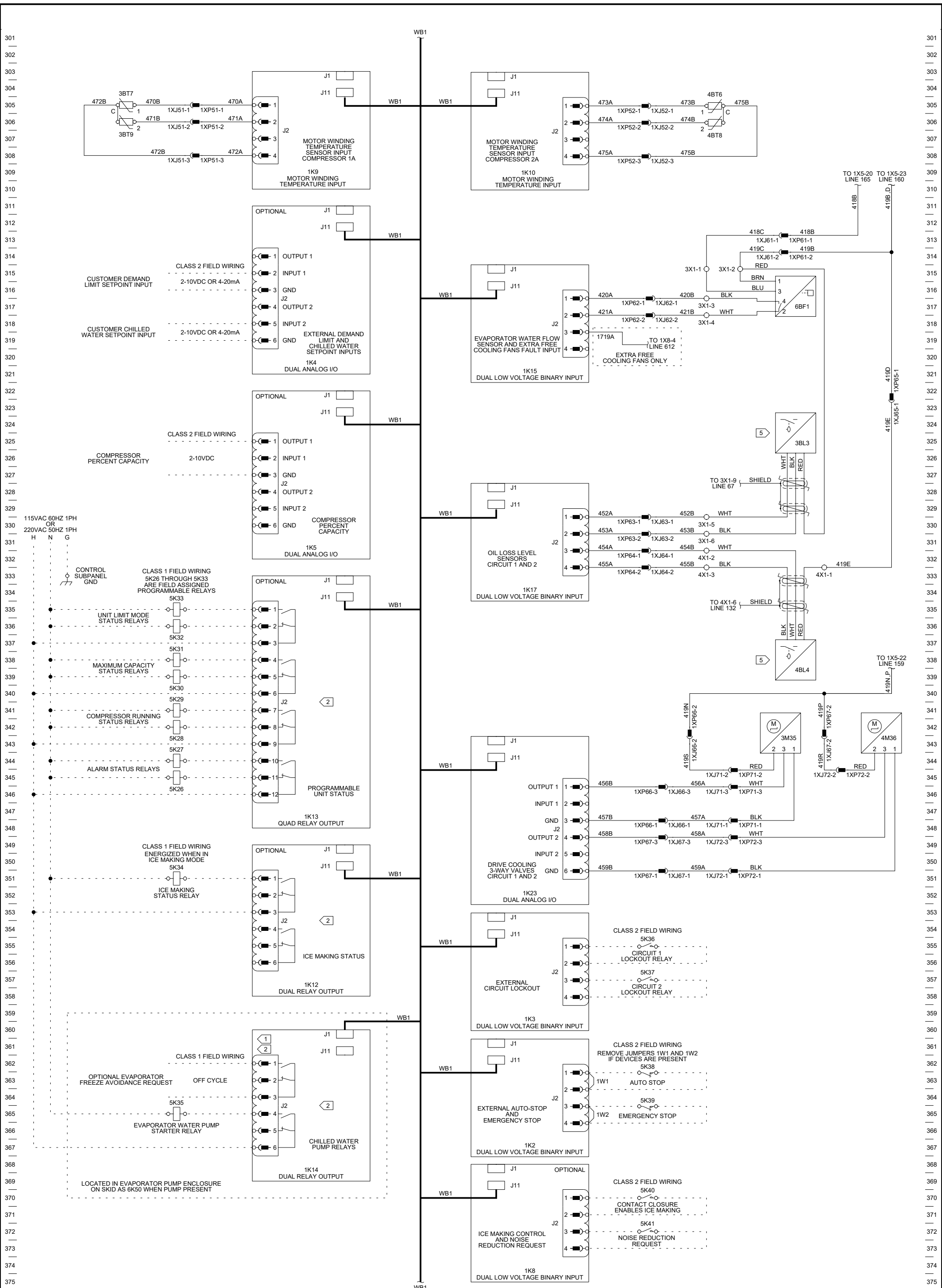
CIRCUIT 2 CONDENSER FANS

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 6 OF 12

REV E



DEVICE PREFIX & LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL DEVICES
2	VOLTAGE AUTOTRANSFORMER
3	CIRCUIT 1 DEVICES
4	CIRCUIT 2 DEVICES
5	CUSTOMER PROVIDED DEVICES
6	UNIT MOUNTED DEVICES

DRAWN BY: R. WUTTKE
© TRANE DATE: 16-JULY-2021
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CAD: CREO SCHEMATICS

DIAGRAM SCHEMATIC WIRING

UNIT AND CUSTOMER CONTROL CONNECTIONS

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 7 OF 12

REV E

UNIT LINE VOLTAGE	1T12 PRIMARY TAPS
200VAC 60HZ	H1 AND H3
230VAC 60HZ	H1 AND H3
380VAC 50HZ	H1 AND H2
380VAC 60HZ	H1 AND H3
400VAC 50HZ	H1 AND H2
460VAC 60HZ	H1 AND H3
575VAC 60HZ	H1 AND H3

TO 1X5-2 LINE 43
TO 1X5-1 LINE 39
202Z
201S
H3 H2 H1
1T12
X2 27VAC X1
221A
222A
223A
J2
CONTROL SUBPANEL GND
WB1
TO 1T14-J1 LINE 121
WB2
WB1
J1
J11
1T15
DC POWER SUPPLY MODULE
J5 J4 J3
1 2 3 4
RED BLK BLU GRY
419A
418A
480A 481A 482A 483A
WB4
TO 1X5-23 LINE 162
TO 1X5-20 LINE 164

TO 1X3-4 LINE 140
TO 1X3-9 LINE 141
1X3-5 201AB
1X3-10 202AK 1XP69-3 202AJ 1XJ69-3 SPLICE 202AP 3L2 415C SPLICE 415B 1XJ69-2 415A 1XP69-2
1X3-5 201AA
202AN 3L1 414C SPLICE 414B 1XJ69-1 414A 1XP69-1
1K24 DUAL TRIAC OUTPUT
J3 J2
LEFT / RIGHT VARIABLE VI COMPRESSOR 1A
WB1
J11 J1
1X3-5 201AD
1X3-10 202AM 1XP70-3 202AL 1XJ70-3 SPLICE 202AS 4L4 417C SPLICE 417B 1XJ70-2 417A 1XP70-2
1X3-5 201AC
202AR 4L3 416C SPLICE 416B 1XJ70-1 416A 1XP70-1
1K25 DUAL TRIAC OUTPUT
J3 J2
LEFT / RIGHT VARIABLE VI COMPRESSOR 2A
WB1
J11 J1

COMPONENTS ARE NOT NECESSARILY WIRED TO WB4 IN THE ORDER SHOWN
OPTIONAL EVAPORATOR PUMP PACKAGE
WB4
TO LINE 400

EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR CIRCUIT 1 — 3BL1 — WB4
ELECTRONIC EXPANSION VALVE MOTOR CIRCUIT 1 — 3M23 — WB4
SUCTION REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 1 — 3BP1 — WB4
OIL PRESSURE TRANSDUCER COMPRESSOR 1A — 3BP3 — WB4
CONDENSER REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 1 — 3BP5 — WB4
DISCHARGE TEMPERATURE SENSOR COMPRESSOR 1A — 3BT1 — WB4
EVAPORATOR REFRIGERANT POOL TEMPERATURE SENSOR CIRCUIT 1 — 3BT5 — WB4
DRIVE COOLING SUPPLY TEMPERATURE SENSOR CIRCUIT 1 — 3BT11 — WB4

EVAPORATOR ENTERING WATER TEMPERATURE SENSOR — 6BT5 — WB4
EVAPORATOR LEAVING WATER TEMPERATURE SENSOR — 6BT6 — WB4
OUTDOOR AIR TEMPERATURE SENSOR — 6BT7 — WB4
FREE COOLING ENTERING GLYCOL TEMPERATURE SENSOR — 6BT10 — WB4
FREE COOLING LEAVING GLYCOL TEMPERATURE SENSOR — 6BT11 — WB4
FREE COOLING GLYCOL PRESSURE SENSOR — 6BP11 — WB4
OPTIONAL INDIRECT FREE COOLING
EVAPORATOR ENTERING WATER PRESSURE — 6BP12 — WB4
EVAPORATOR LEAVING WATER PRESSURE — 6BP13 — WB4
OPTIONAL EVAPORATOR PUMP PACKAGE

WB4 WB4 — 4BL2 — EVAPORATOR REFRIGERANT LIQUID LEVEL SENSOR CIRCUIT 2
WB4 WB4 — 4M29 — ELECTRONIC EXPANSION VALVE MOTOR CIRCUIT 2
WB4 WB4 — 4BP2 — SUCTION REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 2
WB4 WB4 — 4BP4 — OIL PRESSURE TRANSDUCER COMPRESSOR 2A
WB4 WB4 — 4BP6 — CONDENSER REFRIGERANT PRESSURE TRANSDUCER CIRCUIT 2
WB4 WB4 — 4BT2 — DISCHARGE TEMPERATURE SENSOR COMPRESSOR 1A
WB4 WB4 — 4BT10 — EVAPORATOR REFRIGERANT POOL TEMPERATURE SENSOR CIRCUIT 2
WB4 WB4 — 4BT12 — DRIVE COOLING SUPPLY TEMPERATURE SENSOR CIRCUIT 2
WB4 WB4 — 6BT8 — FREE COOLING ENTERING WATER TEMPERATURE SENSOR
OPTIONAL DIRECT / INDIRECT FREE COOLING

TO LINE 431 OR LINE 445 SEE INSETS G
TO MODBUS OR BACNET INTERFACE
TO NEXT UNIT
CLASS 2 FIELD WIRING SHIELDED TWISTED PAIR LEADS
GRN WHT BLK GRN WHT BLK
SHIELD SHIELD
CONTROL SUBPANEL GND
483A 482A 481A 480A GRY BLU BLK RED
IMC A
- + - + G - + G +24 VDC - + G -24 VDC IMC B
P1 LINK (BACNET) P2 MODBUS DEV P3 MACHINE BUS IMC
1K1 SYMBIO 800 UNIT CONTROLLER
SERVICE TOOL
USB5
1XJ1 EXTERNAL USB SERVICE PORT
USB 1 2 3 4
ETHERNET 1 2
USB1
1K6 LON/FT NETWORK
TO TRACER OR OTHER TRANE REMOTE DEVICE
CLASS 2 FIELD WIRING SHIELDED TWISTED PAIR LEADS
SHIELD
PANEL GND
OPTIONAL LONTALK INTERFACE
USB3 5Y1 WI-FI ANTENNA
OPTIONAL WI-FI INTERFACE
USB2 5Y2 LTE INTERFACE
OPTIONAL LTE INTERFACE
EN1
ETHERNET
TO 1T13-J5 LINE 40
WB5
DISPLAY
1A1 ADAPTIVIEW TOUCHSCREEN DISPLAY
5Y3 AIR-FI INTERFACE
OPTIONAL AIR-FI INTERFACE

INSET G
GRN WHT BLK GRN WHT BLK GRN WHT BLK
WB6 WB7
TO 1T1-2A34 LINE 70
TO 1T2-2A34 LINE 137
1K1-P2-G 1K1-P2-- 1K1-P2-+
TO LINE 398
WB6 AND WB7 SHIELDS GROUNDED AT OPPOSITE ENDS ONLY
WITHOUT POWER METERING
INSET G

INSET G
1X9-1 1X9-2 1X9-3
1X9P/J2-3 1X9P/J2-2 1X9P/J2-1
1X9P/J3-3 1X9P/J3-2 1X9P/J3-1
1X9P/J4-3 1X9P/J4-2 1X9P/J4-1
1X9P/J1-3 1X9P/J1-2 1X9P/J1-1
GRN WHT BLK
1728A 1727A 1726A
WB6 WB7 WB8
TO 1T1-2A34 LINE 70
TO 1T2-2A34 LINE 137
TO 1K48-MODBUS LINE 137
1K1-P2-G 1K1-P2-- 1K1-P2-+
TO LINE 398
WB6 AND WB7 SHIELDS GROUNDED AT OPPOSITE ENDS ONLY
WITH POWER METERING
INSET G

DEVICE PREFIX & LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL DEVICES
2	VOLTAGE AUTOTRANSFORMER
3	CIRCUIT 1 DEVICES
4	CIRCUIT 2 DEVICES
5	CUSTOMER PROVIDED DEVICES
6	UNIT MOUNTED DEVICES

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USED BY:

CAD: CREO SCHEMATICS

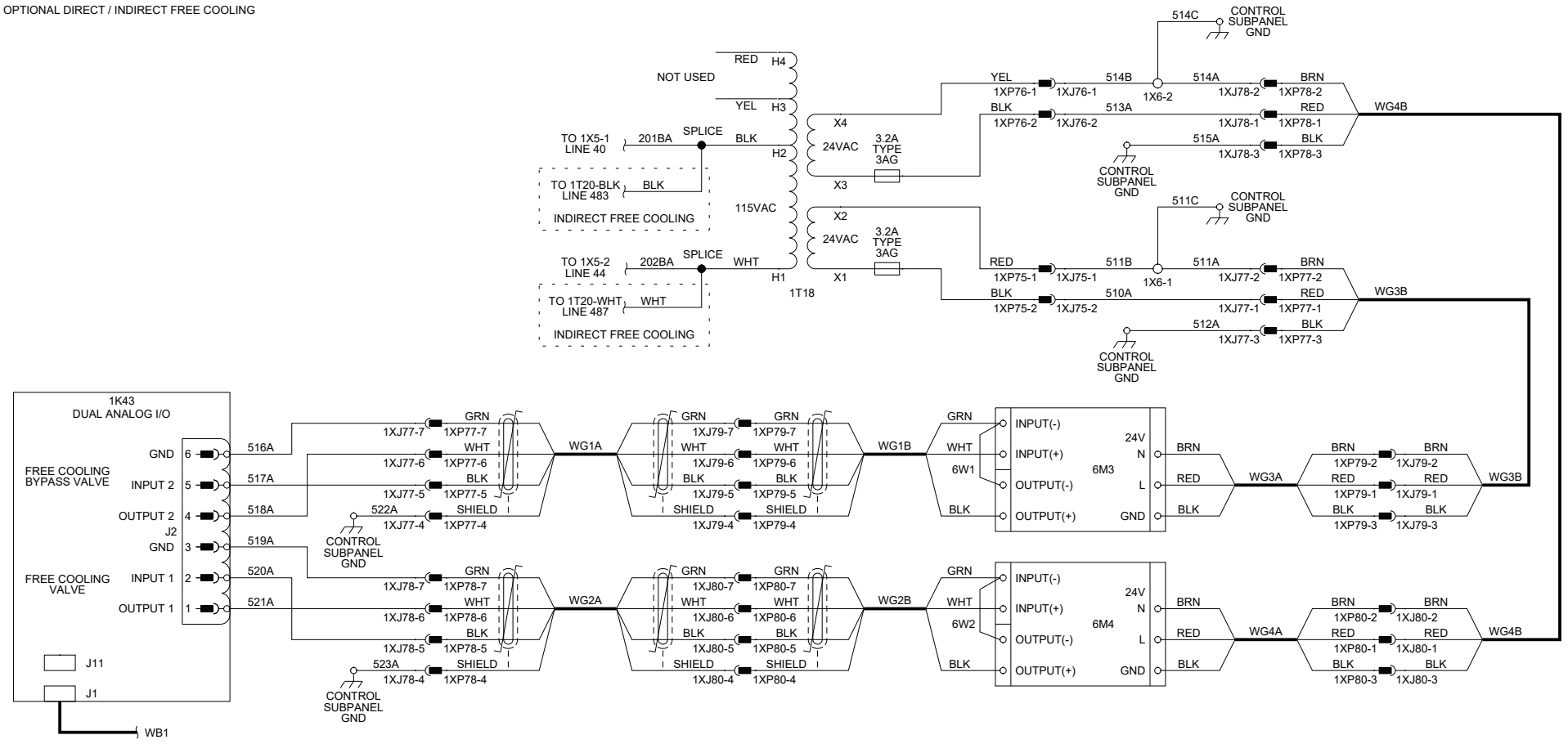
DIAGRAM SCHEMATIC WIRING

UNIT CONTROLS, SENSORS, MODBUS, & SYMBIO

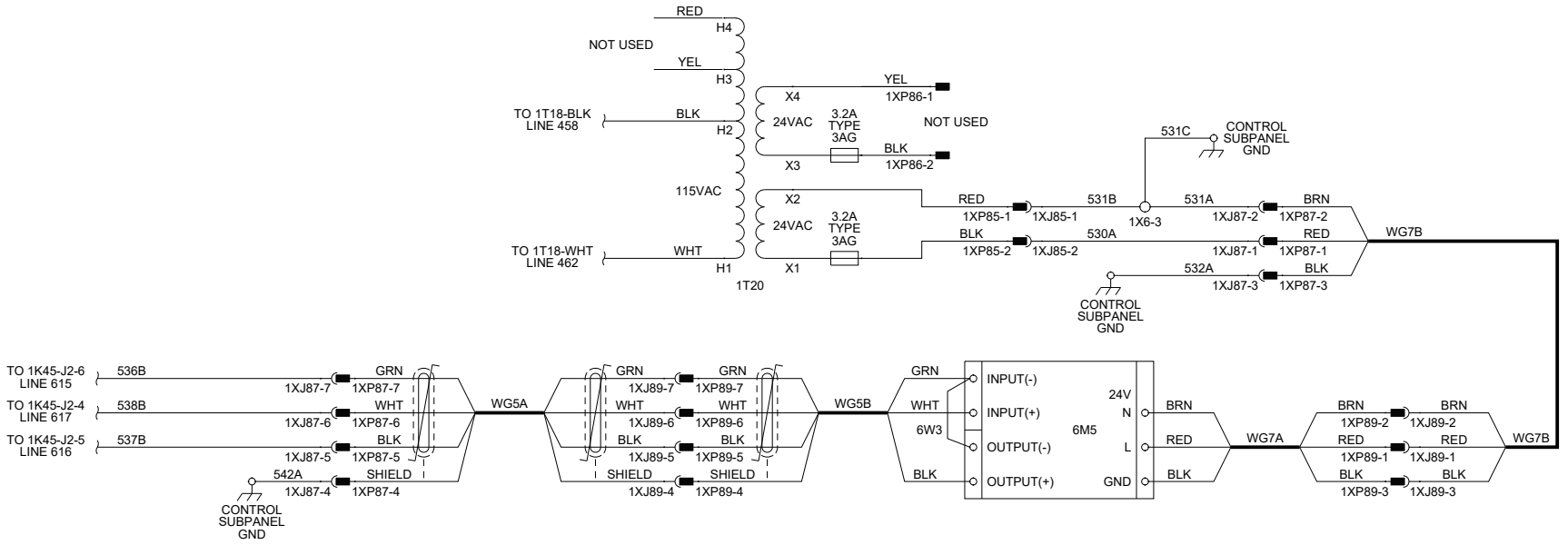
ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509
SHEET 8 OF 12
REV E

OPTIONAL DIRECT / INDIRECT FREE COOLING



ADDITIONAL INDIRECT FREE COOLING ACTUATOR



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CAD: ROUTED SYSTEMS DESIGNER

DIAGRAM
SCHEMATIC WIRING

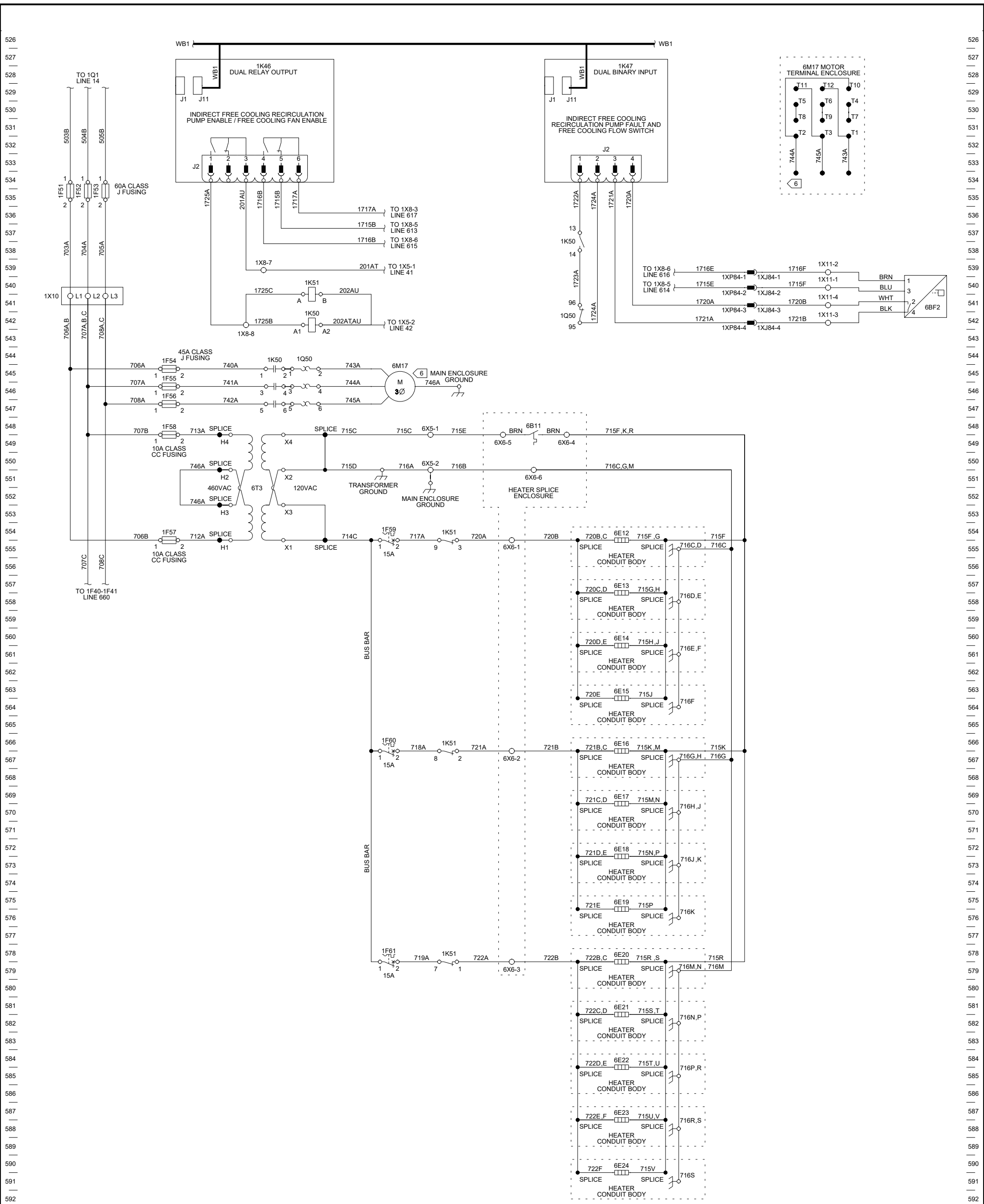
FREE COOLING WATER VALVE ACTUATORS

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 9 OF 12

REV E



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CAD: CREO SCHEMATICS

DIAGRAM SCHEMATIC WIRING

INDIRECT FREE COOLING HEATERS, RECIRC PUMP & GLYCOL FLOW SWITCH

ACR GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509

SHEET 10 OF 12

REV E

WB1

1K45
DUAL ANALOG I/O
J1 J11
FREE COOLING FAN SPEED
AND IDFC WATER SIDE
BYPASS ACTUATOR

J2 OUTPUT 1 INPUT 1 GND OUTPUT 2 INPUT 2 GND
1 2 3 4 5 6

1711A 1712A 538A 537A 536A
1X8-1 1X8-2 1X8-9 1X8-10 1X8-11
1711B 1712B 538B 537B 536B

536B TO 1XJ87-7 LINE 490
537B TO 1XJ87-5 LINE 492
538B TO 1XJ87-6 LINE 491

TO 1K15-J2-3 LINE 319 1719A 1X8-4 1719B
TO 1K46-J2-5 LINE 537 1715B 1X8-5 1715A TO 1T13 J4-2 LINE45
TO 1XP84-2 LINE 540 1715E 1715D
TO 1K46-J2-4 LINE 538 1716B 1X8-6 1716A TO 1T13 J4-1 LINE45
TO 1XP84-1 LINE 539 1716E 1716D
TO 1K46-J2-6 LINE 536 1717A 1X8-3 1717B

TO 1X9-1/2/3 LINE 447
BLK WHT GRN SHIELD
TX+ TX- GND SHIELD
MB1B

1716D 1715D
MODBUS
+ - 24V 0V
1K48
MODBUS SL INTERFACE
RJ45 ULP 1 2
1R1
MB1A
TO 1Q1 RJ45 ULP LINE 17

1711B 1712B 1717B 1719B
1XP83-1 1XP83-2 1XP83-3 1XP83-4
BLU BLK RED GRY
1XJ83-1 1XJ83-2 1XJ83-3 1XJ83-4

TO LINE 39
4E 5E 6E

SEE SHEET 2 FOR FREE COOLING FAN LOCATIONS

4E 1F45 707A BLK 1XP81-4 1XJ81-4
5E 1F46 708A RED 1XP81-3 1XJ81-3
6E 1F47 709A BLU 1XP82-2 1XJ82-2
30A CLASS CC FUSING 725A GRN 1XP81-1 1X81-1
DRIVE PANEL GND

TO LINE 107
7E 8E 9E

7E 1F48 710A BLK 1XP82-4 1XJ82-4
8E 1F49 711A RED 1XP82-3 1XJ82-3
9E 1F50 712A BLU 1XP82-2 1XJ82-2
30A CLASS CC FUSING 726A GRN 1XP82-1 1X82-1
DRIVE PANEL GND

BLK BLK L1 Ain1u BLU
RED RED L2 GND BLK
BLU BLU L3 Din1 RED
GRN GRN PE COM
NO GRY
M 3Ø
6M13 6M15 6M14 6M16

INSET H

115V 60HZ 1PH H N G
115V 60HZ 1PH OR 220V 50HZ 1PH G H N
DRIVE PANEL GND
1X4-2 465A 465A 1XP60-2
1X4-1 460A 460A 1XP60-1
1X4-4 467A N N
1XJ2
1X4-3 466B H H G 124A
NOT AVAILABLE ON 50HZ UNITS
DRIVE PANEL GND
CUSTOMER POWERED OUTLET AND WATER BOX HEATERS

INSET H

DRIVE PANEL GND 729B 1X7-2 729C 729C
TO 1X10-L3 LINE 557 708C 1F41 726A H4 1T19 729A 728A 1X7-1 728B,C 728C 1XP60-2
L1 10 L2 H2 X1 728B G 1XJ5 731A 1XP60-1
120VAC N H N H
H3
TO 1X10-L2 LINE 557 707C 1F40 725A H1 X2 727AB 727A 1F42 730A
L1 10 L2 L1 20 L2
727B 1F43 731A
L1 15 L2
CHILLER POWERED OUTLET AND WATER BOX HEATERS

INSET H

CONNECT TO 1XP60 SEE INSETS H
465C 1XJ60-2
460D 1XJ60-1
6X1-1 BLK 6B10 BLK 6X1-2 BLK 6E7 WHT 6X1-4
BLK 6E8 WHT
BLK 6E9 WHT
6X1-3 6X1-5
180-200 TON UNITS OR UNITS WITH 3-PASS WATER BOXES ONLY

468A GRN
DRIVE PANEL GND
6X1-6
EVAPORATOR TUBE SHEET

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CAD: CREO SCHEMATICS

DIAGRAM SCHEMATIC WIRING

EXTRA FREE COOLING FANS, POWER METERING, OUTLET, & EVAP HEATERS

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509 SHEET 11 OF 12 REV E

TO 1Q1 LINE 39

1G 2G 3G

1F62 1F63 1F64 CLASS T FUSING

7	6M10 HP	FUSE
	50	110A
	60	125A
	75	150A

601A 602A 603A

CLASS T FUSING

SEE INSET J HARMONIC FILTER

VSD PUMP POWER

601A 6F1 604A,B — 604A 91 (L1)
602A 6F2 605A,B — 605A 92 (L2)
603A 6F3 606A — 606A 93 (L3)
6T1
96 (U) 607A → 6M10 M 3Ø
97 (V) 608A → 6M10
98 (W) 609A → 6M10
GND → 95 PE
99 PE

PUMP PANEL GND

6M10 GND → PUMP PANEL GND

604B 6F4 610A → H4 6T2 X2 1602A
H2 H3 120VAC
GND → PUMP PANEL GND

605B 6F5 611A → H1 X1
1600A

1601E 9 5 1608A 6K1 1602D
HARMONIC FILTER ONLY
6X3-3 1601B 6B1-RED 1603A 16 4 1604A 6E25 6E26 1602B 6X3-6
6M11
1600A,B 6F6 1601A 6X3-1 1601C 6B1-BLU 1605A 11 7 1606A 1606A 1602C 6X3-4 1602A
JUMP JUMP
6X3-2 1601D 1607A 14 13 1602E 6X3-5
6Q1
1602F

1600B 6F65 15A 1609A 6B2 1610A 6E27 6E28 6E29 6E30 1611A 6X5-3 1602F
INDIRECT FREE COOLING ONLY

INSET J
HARMONIC FILTER

6RF1
U1 U2 614A → 6T1-L1/R LINE 688
V1 V2 615A → 6T1-L2/S LINE 689
W1 W2 616A → 6T1-L3/T LINE 690
HARMONIC FILTER ENCLOSURE GND
U4 V4 W4
620A → GND
617A 6K1 1 2
619A 6K1 5 6
604A 605A 606A → 6F1-2 LINE 688, 6F2-2 LINE 689, 6F3-2 LINE 690
622A 618A 629A
V4
U4 6C1 W4

INSET J

RED RED
6X4-1
BLK BLK
TO LINE 400 WB4 6X4-2 WB4
BLU BLU
6X4-3
GRY GRY
6X4-4

DUAL LOW VOLTAGE BINARY INPUT
6K51

EVAP PUMP VSD RUNNING — J2 4 1628A — 6Q1 10 2 — 1607A → 6T1 05 RELAY 2 RUNNING
3 1627A — 1601D → 04
EVAP PUMP VSD FAULT — 2 1626A — 1626A → 02 RELAY 1 FAULT
1 1625A — 1625A → 01
WB4 J11 J1 WB4

INDIRECT FREE COOLING ONLY
1621B 6B3 → 27: EXT INTERLOCK
1620A → 18: START/STOP
1621A,B → 12: DCV OUT
1623A → 55: A COM
1624A → 42: AO 1
1622A → 53: AI 1

6K50
DUAL RELAY OUTPUT

EVAP PUMP VSD CONTROL — 6 1620A
5
4 1621A
J2
3
2
1
WB4 J11 J1 WB4

DUAL ANALOG I/O
6K52

GND 6
EVAP PUMP VSD SPEED FEEDBACK — INPUT 2 5
OUTPUT 2 4
J2
GND 3 1623A
EVAP PUMP VSD SPEED CONTROL — INPUT 1 2 1624A
OUTPUT 1 1 1622A
WB4 J11 J1

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CAD: CREO SCHEMATICS

DIAGRAM SCHEMATIC WIRING

OPTIONAL EVAPORATOR PUMP

ACRB GP4 - 2 COMPRESSORS

DRAWING NUMBER 23115509 | SHEET 12 OF 12 | REV E