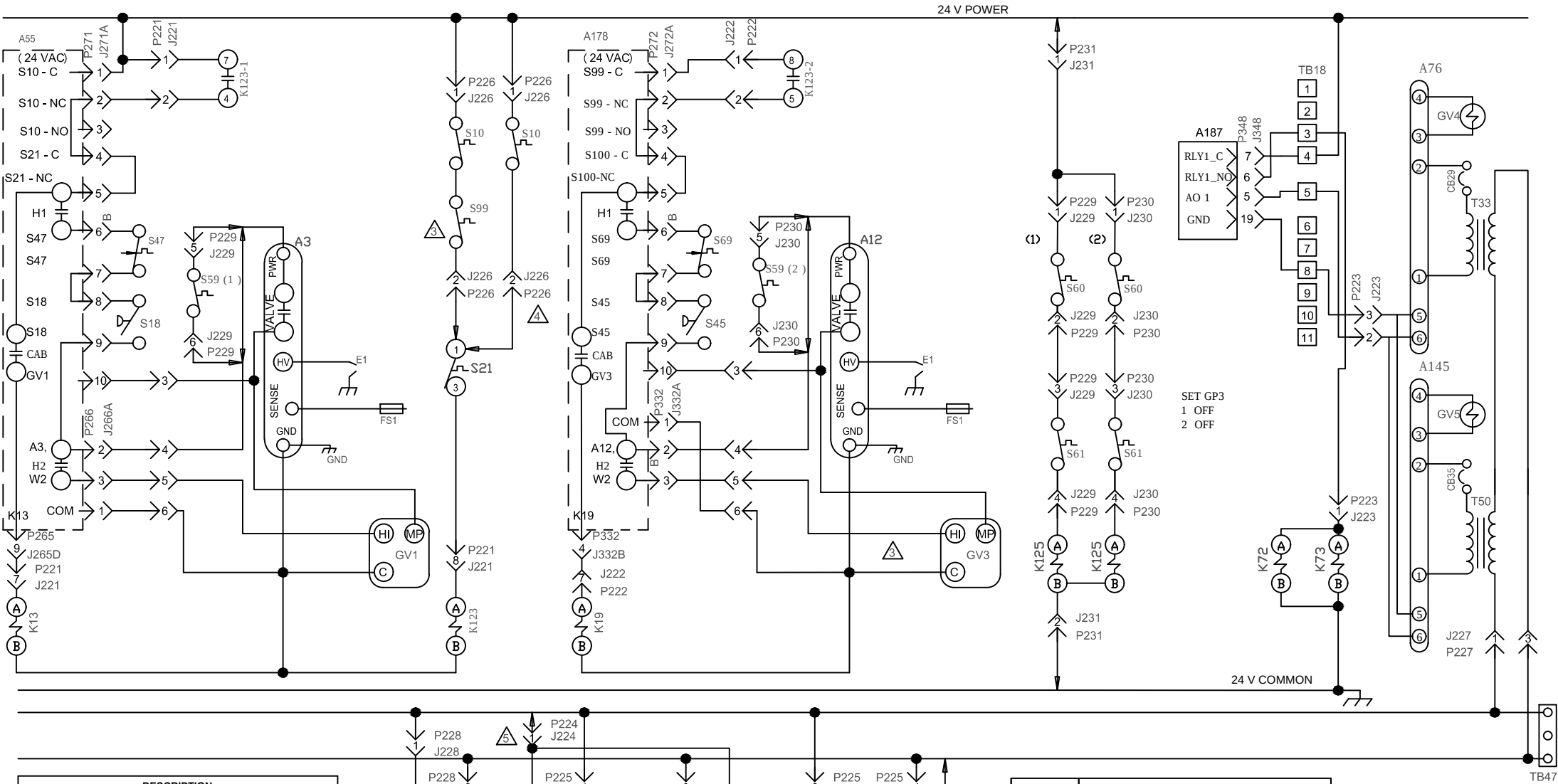




DESCRIPTION	
KEY	DESCRIPTION
A3	CONTROL, BURNER 1
A12	CONTROL, BURNER 2
A55	CONTROL BOARD, MAIN
A76	CONTROL, MODULATING VALVE 1
A145	CONTROL, MODULATING VALVE 1
A178	CONTROL BOARD, COMP 3 & 4, 2ND STAGE HEAT
A187	CONTROL, GENERAL PURPOSE GP3
B6	MOTOR COMBUSTION AIR BLOWER 1
B15	MOTOR COMBUSTION AIR BLOWER 2
C3	CAPACITOR, COMB AIR BLOWER 1
C11	CAPACITOR, COMB AIR BLOWER 2
CB29	CIRCUIT BREAKER, TRANSFORMER 33
CB35	CIRCUIT BREAKER, TRANSFORMER 50
E1	SPARK
FS1	SENSOR, FLAME
GV1	VALVE, GAS 1
GV3	VALVE, GAS 2
GV4	VALVE, MODULATING GAS 1
GV5	VALVE, MODULATING GAS 2
HR6	HEATER, -50C LOW AMBIENT KIT
K13,-1	RELAY, COMBUSTION AIR BLOWER 1
K19,-1	RELAY, COMBUSTION AIR BLOWER 2
K72	RELAY, GAS 3
K73	RELAY, GAS 4
K123,-1,2	RELAY, PRIMARY LIMIT
K125,-1	RELAY, HEAT SHUT OFF
S10	SWITCH, LIMIT PRIMARY GAS
S18	SWITCH, COMB AIR BLOWER 1 PROOF
S21	SWITCH, LIMIT SECONDARY GAS HEAT
S45	SWITCH, COMB AIR BLOWER 2 PROOF

S47	SWITCH, FLAME ROLLOUT BURNER
S59	TSTAT, OPEN -20F, CLOSE 10F
S60	TSTAT, OPEN 20F, CLOSE -10F
S61	TSTAT, OPEN 50F, CLOSE 20F
S69	SWITCH, FLAME ROLLOUT 2
S99	SWITCH, LIMIT PRIMARY BURNER 2
T3	TRANSFORMER, COMB AIR BLOWER 1
T13	TRANSFORMER, COMB AIR BLOWER 2
T33	TRANSFORMER, MODULATING VALVE 1
T50	TRANSFORMER, MODULATING VALVE 2
TB18	TERMINAL STRIP, CYCLE CONTROL
TB47	TERMINAL STRIP, EXHAUST FANS

- 1 CSA (-50C) LOW AMBIENT KIT (OPTIONAL)
- 2 T3 AND T13 USED ON 575 V UNITS ONLY
- 3 S99 IS USED ON DOWN DISCHARGE APPLICATIONS
- 4 HORIZONTAL DISCHARGE APPLICATIONS
- 5 J224, P224 USED ON 208 / 240 V UNITS

← DENOTES OPTIONAL COMPONENTS

J/P	JACK/PLUG DESCRIPTION
1	COMBUSTION AIR BLOWER 1
13	COMBUSTION AIR BLOWER 2
221	HARNESS BURNER 1
222	HARNESS BURNER 2
223	MODULATING GAS ADDER
224	CAB POWER 208/240V
225	CAB POWER 480/600V
226	S10 HORIZONTAL DISCHARGE LIMIT
227	T33, T50 POWER
228	VESTIBULE HEATER
229	VESTIBULE HEATER CONTROL 1
230	VESTIBULE HEATER CONTROL 2
231	VESTIBULE HEATER CONTROL PWR
265	CONTACTOR RELAY
266	HEATING CONTROL STG 1
271A,B	HEATING SENSORS STG 1
272A,B	HEATING SENSORS STG 2
332	HEATING CONTROL STG 2
348	CONTROL, GENERAL PURPOSE GP3

08/17



WIRING DIAGRAM

08/17

537219-03

HEATING

MODULATING GAS HEAT
ENERGENCE SERIES 500 AND 800

SECTION A

Supersedes

New Form No.
537219-03