GATE OPERATOR WIRING DIAGRAM

ON/OFF SWITCH

(W)

(BK)

1 PHASE POWER IN

GROUND (GN)

208V/230V MOTOR CONNECTION

115V ONLY

O/L (BK)

IR
SEE NOTE 3

(W)

230V ONLY
SEE NOTE 2

115V ONLY
SEE NOTE 2

(PU) (BB)
(BL)
(YE)
(GY) (BB)

230V BRAKE SOLENOID

TO REVERSE MOTOR DIRECTION INTERCHANGE *PURPLE & GRAY WIRES*

(PU) (BB)
(BL)
(YE)
(GY) (BB)

115V BRAKE SOLENOID

115V MOTOR CONNECTION

SEE NOTE 1

S3 CONTROL BOARD

J2 PLUG

R1 & J1-3	J2-3	(GY)
R3	J2-4	(Y)
R2 & J1-6	J2-5	(GN)
S2 DEFEAT	J2-6	(GW)
A2 L/S B	J2-7	(PW)
A1 RELAY B	J2-1	(R)
A2 L/S A	J2-8	(OR)
A1 RELAY A	J2-2	(OB)
	J2-9	(WH)
	J2-10	(RD)
	J2-11	(BK)

R1 (BL) B (BL) (Y)

R3 (Y)

C
SEE NOTE 5

13 14 (YB)
IR
(R) 3 5 (YB)

B
A1 A2
MOV

(PW) L/S B (Y)
NC COM

14 13 (BR)
IR
(OB) 4 5 (BR)

A
A1 A2
MOV

(OR) L/S A (Y)
NC COM

A (BK) B−
ALARM ASSY 76-G0537

SENSOR 74-G0487

J1 PLUG

EMERGENCY RELAY A	J1-1	
EMERGENCY RELAY B	J1-2	
R1 & J2-3	J1-3	
	J1-4	(OPTIONAL)
	J1-5	
R2 & J2-5	J1-6	(BR) R2
	J1-7	
	J1-8	(GW)
	J1-9	
	J1-10	
	J1-11	
	J1-12	
	J1-13	
	J1-14	
ALARM	J1-15	(BL) C
ALARM	J1-16	(P)

(R) B+ ALARM ASSY 76-G0537

(GW)

B (R)
C (BK)
(W)

B (R)
C (BK)
(W)

Standard Loop Detectors

4 6 8 7 9 10
OPEN LOOP HARNESS (10-PIN)

4 6 8 7 9 10
SAFETY (HOLD OPEN) LOOP HARNESS (10-PIN)

(GY) P3
(BR) P4
FROM SAFETY LOOP

(GY) P1
(BR) P2
FROM OPEN LOOP

LEGEND

◄	PERMANENT TERMINAL
⊠	J1 TERMINAL BLOCK
∅	TERMINAL BLOCK

NOTES:
1) TRANSFORMER PRIMARY VOLTAGE SAME AS OPERATOR LINE VOLTAGE 24V SECONDARY 50VA.
2) WIRE COLOR 120V-BLACK, 208V-RED, 230V-ORANGE, 460V-VIOLET, 575V-GRAY.
3) COIL VOLTAGE SAME AS LINE VOLTAGE. TERMINAL DESIGNATIONS SHOWN FOR 115V ONLY.
4) (B+) AND (B−) ARE 100db SAFETY ALARMS.
5) HARD JUMPER ON TERMINAL BLOCK.

APPLICATIONS:
CONTROL WIRING TYPE – S3

FIELD WIRING & ADJUSTMENTS

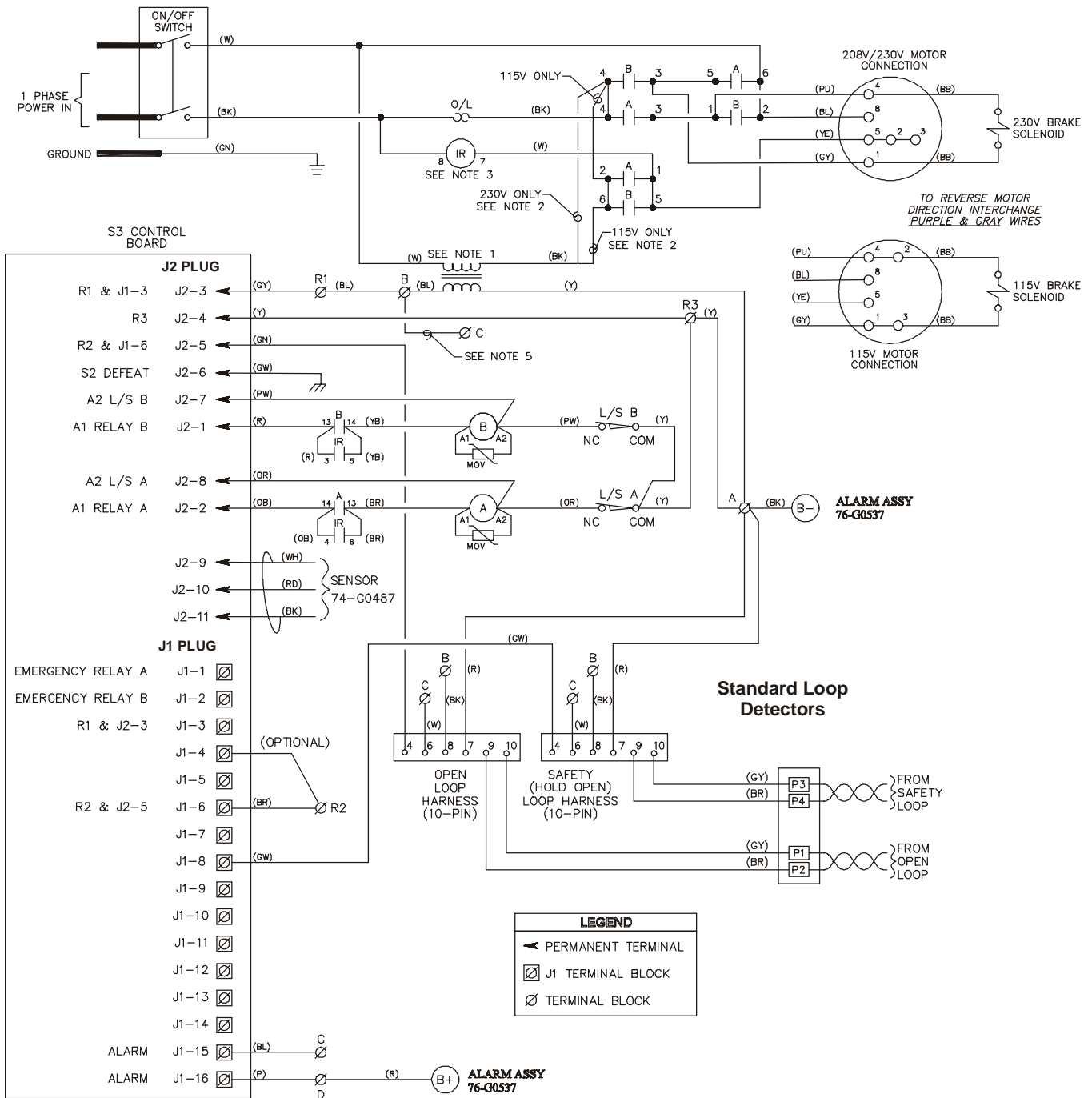|	
MODEL TYPES:	SL580
HORSEPOWER:	1/2, 3/4, 1, 1-1/2
VOLTAGE/PHASE:	115V, 208V & 230V 1 PHASE ONLY

Sentexsystems

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DRAWING NUMBER:
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DATE:	REVISION:	ECN:
8/18/99	**E-09/11/00**	**2181**