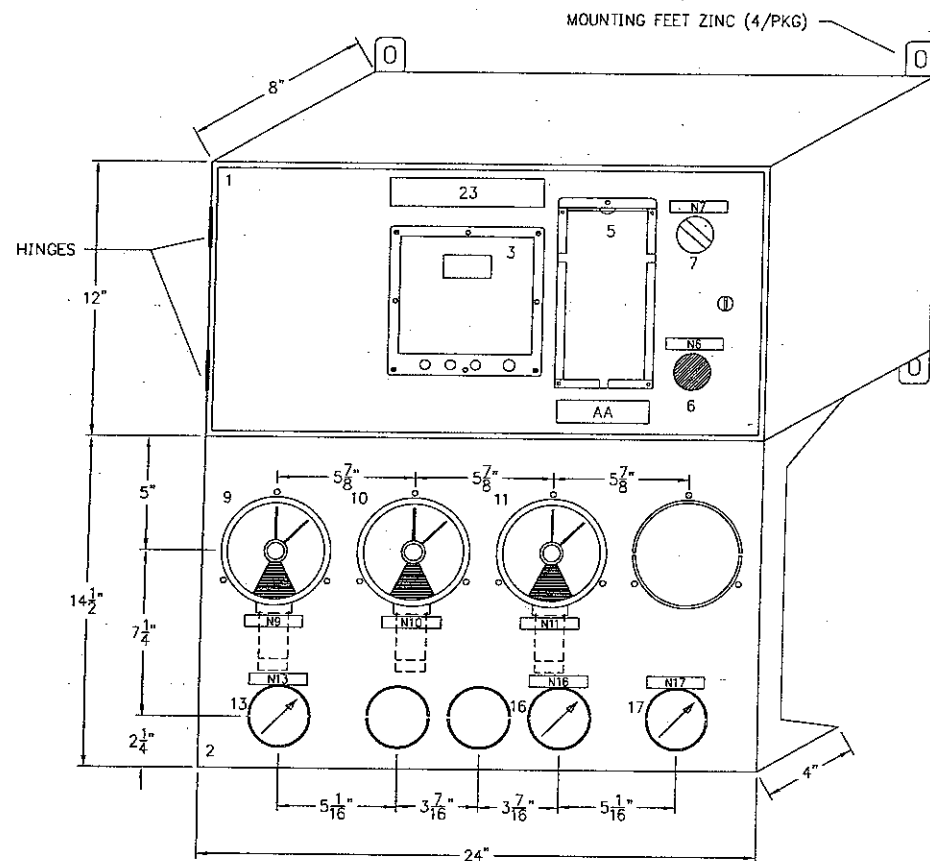
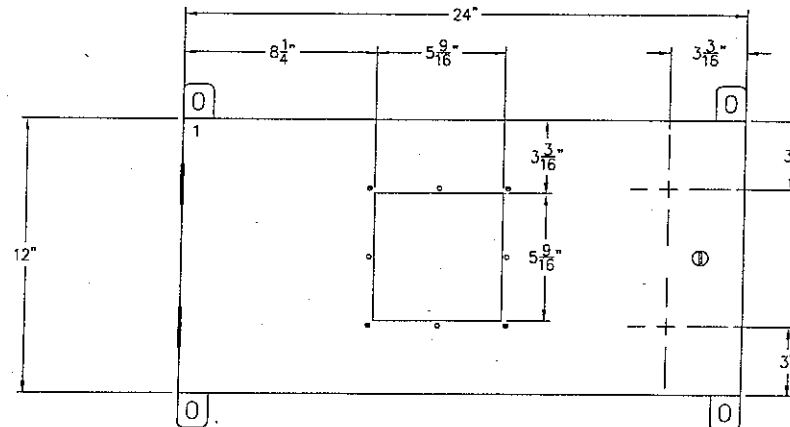




ENCLOSURE FRONT VIEW

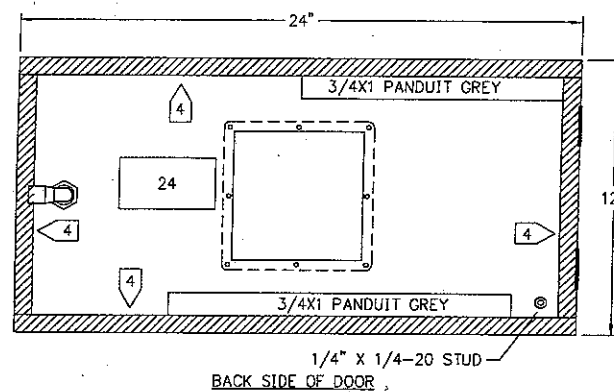
LAMACOID TAG 'AA'
(LAMACOID SIZE: 1" x 4", COLOR: BLACK, LETTERS: WHITE, TAPED)

MODEL #: PIC-2152
SERIAL #MT-27067-AA

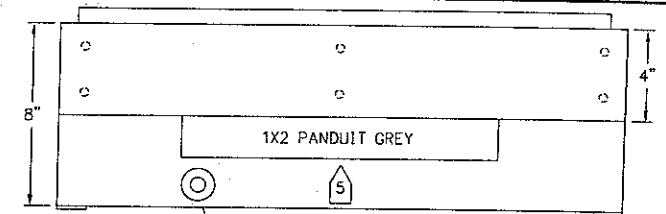


ENCLOSURE CUTOUT DETAILS

LAMACOID TAGS				
QTY.	TAG #	COLOR/LETTERS	DESCRIPTION	SUPPLIED BY
1	N6	RED/WHITE	PUSH TO ESD	PIC
1	N7	BLACK/WHITE	POWER ON/OFF	PIC
1	N9	BLACK/WHITE	SUCTION PRESSURE STAGE 1	PIC
1	N10	BLACK/WHITE	DISCHARGE PRESSURE STAGE 1	PIC
1	N11	BLACK/WHITE	DISCHARGE PRESSURE STAGE 2	PIC
1	N13	BLACK/WHITE	COMPRESSOR OIL PRESSURE	PIC
1	N16	BLACK/WHITE	DISCHARGE TEMPERATURE STAGE 1	PIC
1	N17	BLACK/WHITE	DISCHARGE TEMPERATURE STAGE 2	PIC

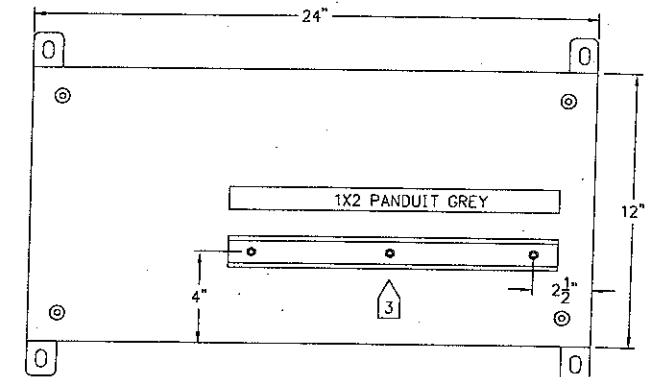


BACK SIDE OF DOOR

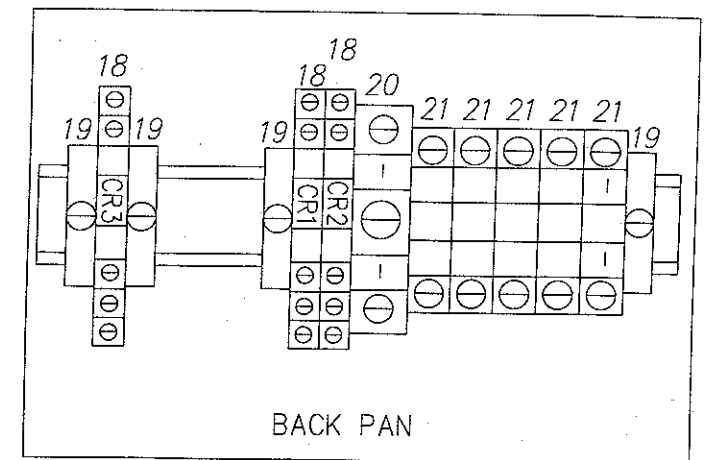


ENCLOSURE BOTTOM-VIEW

CONNECTOR STRAIN RELIEF 3/4" (ITEM 22)



ENCLOSURE INTERNAL BACK-VIEW
(WITH DOOR REMOVED)



BACK PAN

NOT TO SCALE

NOTES:

- CABINET TO BE 12" H X 24" W X 8" D C/W SINGLE FRONT ACCESS DOOR.
- PAINT COLOUR: MURPHY RED.
- 14" RAIL WITH (3) 1/2" X 10/32" STUDS.
- NEOPRENE GASKET STRIP TO BE APPLIED TO ALL SIDES OF FLAT UNDERSIDE.
- PANDUIT FASTENED TO CABINET WITH STUDS.
- PRE-CONSTRUCTION MEETING REQUIRED.
- SUITABLE FOR USE IN CLASS 1, DIV. 2, GROUP C&D HAZARDOUS LOCATIONS.

LAMACOID TAG 'ITEM 23'
(LAMACOID SIZE: 6.5" X 1.25", COLOR: SILVER, LETTERS: BLACK, TAPED)

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POWER IGNITION & CONTROLS
A Division of Spartan Controls
Calgary (403) 236-2115 Edmonton (780) 436-0047
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BRITANNIA INDUSTRIES
ELECTRIC MOTOR, 2 STAGE RECIP
COMPRESSOR UNIT CONTROL PANEL (MURPHY TTD-2)
CABINET LAYOUT
UNIT #20501

LSD: PROJECT No. PN27067 SCALE: NTS DRAWING No. MT-27067-AA-100-00 REV. 0

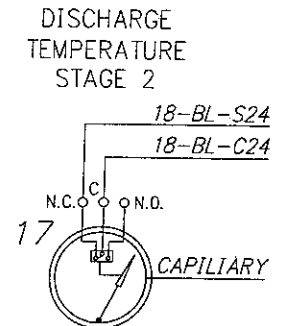
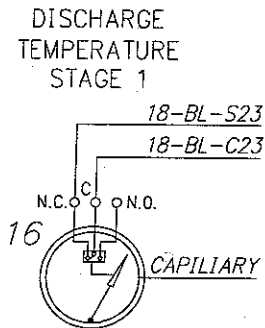
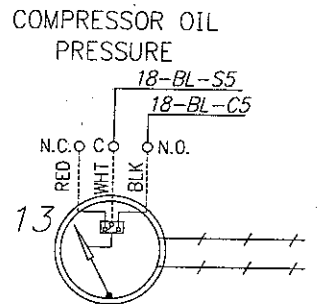
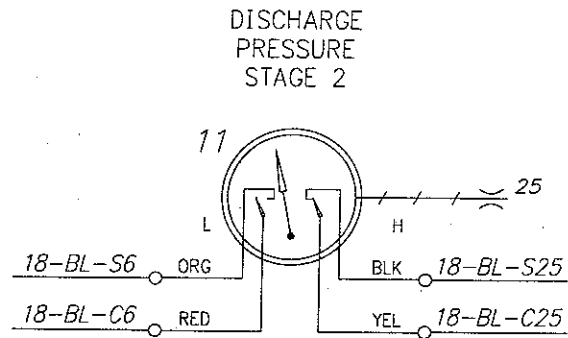
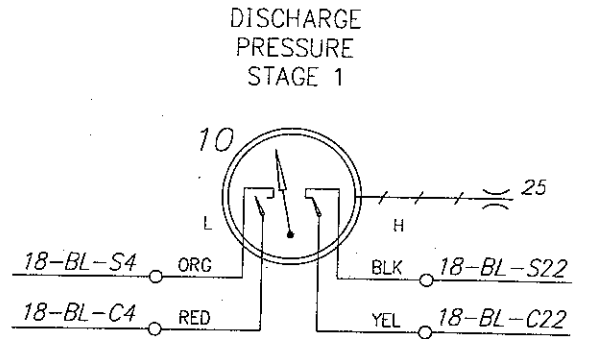
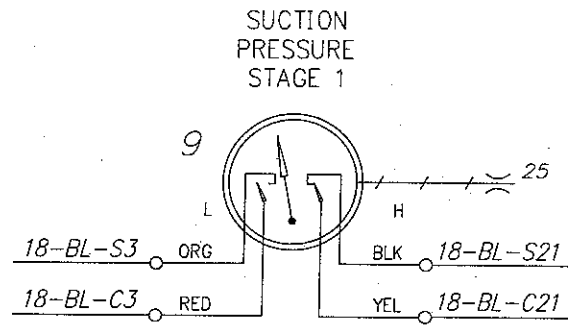
August 09 2011 9:04am

DRAWING No.	REFERENCE DRAWINGS	REV.	DESCRIPTION	DATE	DRAWN	CHK	DESIGN	APP
		0	SPARTAN AS BUILT	01 SEP 11	RDW	RGH	RGH	RGH
		A	ISSUED FOR APPROVAL	09 AUG 11	RDW	RGH	RGH	RGH

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BILL OF MATERIALS

ITEM	QTY.	SUPP. BY	MFR.	MODEL No.	DESCRIPTION	SET PT.
1	1	SML	SML	TTD-1CAB	ENCLOSURE, 12"H X 24"W X 8"D, C/W GAUGE WING RED	
2	1	SML	SML	EZPMFHD	MOUNTING FEET ZINC 4/PKG	
3	1	SML	MURPHY	TTD-H	DIGITAL FAULT ANNUNCIATOR HEAD	
4	1	SML	MURPHY	PSU-2	DIV 2 POWER SUPPLY/TTD G-LEAD CHOKE	
5	1	SML	SML	50225495	VERTICAL ANNUNCIATOR LEGEND HOLDER W/304700.xls	
6	1	SML	SML	ZB4BS54	ESD PUSHBUTTON	
7	1	SML	SML	ZB4BZ102	CONTACT BLOCK, 1 N.C.	
8	1	SML	SML	800T-H2AP	2 POSITION SWITCH, MAINTAINED, HS, NO/NC	
9	1	SML	MURPHY	45APEF-S-30V30HS	SUCTION PRESSURE STAGE 1 "SWICHGAGE"	
10	1	SML	MURPHY	45APEF-S-100HS	DISCHARGE PRESSURE STAGE 1 "SWICHGAGE"	
11	1	SML	MURPHY	45APEF-S-200HS	DISCHARGE PRESSURE STAGE 2 "SWICHGAGE"	
12	1	SML	MURPHY	A25PEF-100	COMPRESSOR OIL PRESSURE "SWICHGAGE"	
13	1	SML	MURPHY	A25TEF-350-35-1/2	DISCHARGE TEMPERATURE STAGE 1 "SWICHGAGE"	
14	1	SML	MURPHY	A25TEF-350-35-1/2	DISCHARGE TEMPERATURE STAGE 2 "SWICHGAGE"	
15	3	SML	SML	80.010.4000.0	TERMINAL BLOCK RELAY/24VDC/6A AC/2A DC	
16	4	SML	SML	WE3835.6	END BLOCK	
17	1	SML	SML	6675.2	FUSE TERMINAL c/w 3 AMP FUSE	
18	5	SML	SML	4674.6	SAK/4 TERMINAL BLOCK	
19	1	SML	SML	TSRC15	CONNECTOR STRAIN RELIEF 3/4"	
20	1	SML	SML	60PANEL TAG	SOLD AND SERVICE TAG	
21	1	SML	SML	EN-LAB TTD SR SERIES	EN-LAB TTD SR SERIES (ENTECLA LABEL)	
22	3	MURPHY	MURPHY	PM6203 1/4"	PULSATION SNUBBER	



NOTES:

- PIC WIRING:
CUSTOMER WIRING: -----
END-USER WIRING: -----
- FITTINGS: N/A
- "18-BL-25" REPRESENTS "AWG-WIRE COLOR-WIRE NUMBER"
- ROUTE SENSOR LEADS SEPARATE FROM ALL OTHER WIRING.
- MAXIMUM LENGTH OF SENSOR LEADS IS 500 FEET.
- CAUTION: DISCONNECT ALL SENSOR LEADS BEFORE WELDING.
- GROUND SYMBOLS WILL BE SHOWN PER THE FOLLOWING:
EARTH/NON-INCENDIVE CHASSIS/NON-INCENDIVE DC COM/CLOSE LOOP
- UNLESS OTHERWISE NOTED ALL DEVICES ARE SHOWN IN THE SHELF POSITION.
- ALL WIRING TO BE 18 GA. UNLESS OTHERWISE NOTED.
- EACH OF THE FIRST 48 INPUTS CAN BE CONFIGURED FOR CLASS A, B1, B2, C, FOR ALARM OR SHUTDOWN, OR AS IGNORE, OR SPECIAL LOCKOUT. SPARE SHUTDOWNS WILL BE DEFAULTED TO IGNORE (DISABLED).

- SET B1 TIMERS @ 30 SECONDS.
SET B2 TIMERS @ 60 SECONDS.
INPUT #45 IS SELECTABLE REMOTE RESET OR CLASS "A"
INPUT #46 IS SELECTABLE REMOTE LOCKOUT OR CLASS "A"
(INHIBITS CLASS "B1" & "B2" LOCKOUT TIMERS)
INPUT #47, #48 TYPICALLY USED FOR EMERGENCY STOP (OVERRIDES TEST TIMER)
DISPLAY #49 IS LOSS OF IGNITION (LESS THAN 90 VDC)
DISPLAY #50 IS OVERSPEED (INTERNAL, ON "T" MODEL ONLY)
DISPLAY #51 IS UNDERSPEED (ON "T" MODEL ONLY)
DISPLAY #52 IS MANUAL STOP (INTERNAL)
DISPLAY #60 WATCHDOG TIMER
DISPLAY #61 LOSS OF SP1 LINK (INTERNAL, ON "T" MODEL ONLY)
DISPLAY #62 LOW DC VOLTAGE (ALARM)
DISPLAY #63 LOW BACKUP BATTERY (ALARM)
- SENSOR INPUTS ARE PASSIVE SWITCHES. REMOVE FACTORY INSTALLED JUMPER FOR NORMALLY CLOSED SWITCHES.
- NORMALLY OPEN SENSORS ARE RETURNED TO GROUND TO ACTIVATE ANNUNCIATOR.
- FOR ADDITIONAL INFORMATION REFER TO INSTALLATION BULLETIN.
- CONNECT POWER LEADS DIRECTLY TO BATTERY POSTS

NOTE: ANY MODIFICATION OF THE PANEL MAY ALTER THE THIRD PARTY APPROVAL OF THE UNIT. PLEASE CONTACT POWER IGNITION CONTROLS FOR CLARIFICATION.

PIC Power Ignition and Controls
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BRITANNIA INDUSTRIES
ELECTRIC MOTOR, 2 STAGE RECIP
COMPRESSOR UNIT CONTROL PANEL (MURPHY TTD-2)
PNEUMATIC LOGIC AND BILL OF MATERIALS

LSD: UNIT #20501 P.O.#1555
PROJECT No. PN27067 SCALE: NTS DRAWING No. MT-27067-AA-200-00 REV. 0

August 09 2011 9:04am

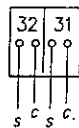
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INDICATOR READOUTS

CLASS DISPLAY DESCRIPTION

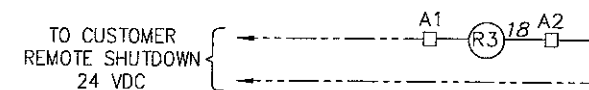
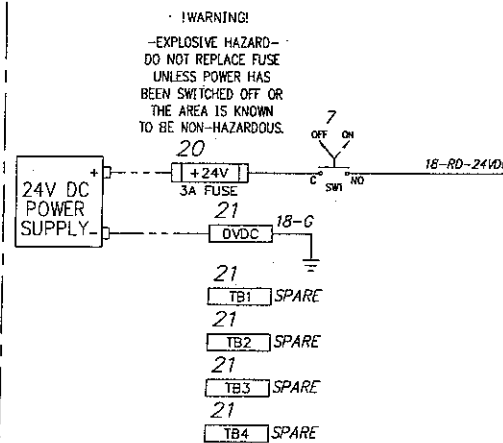
01	SPARE	01	
02	SPARE	02	
B2	03 LOW SUCTION PRESSURE STAGE 1	03	18-BL-S3
B2	04 LOW DISCHARGE PRESSURE STAGE 1	04	18-BL-S4
B1	05 LOW COMPRESSOR OIL PRESSURE	05	18-BL-S5
B2	06 LOW DISCHARGE PRESSURE STAGE 2	06	18-BL-S6
07	SPARE	07	18-BL-S7
08	SPARE	08	
09	SPARE	09	
10	SPARE	10	
11	SPARE	11	
12	SPARE	12	
13	SPARE	13	
14	SPARE	14	
15	SPARE	15	
16	SPARE	16	
17	SPARE	17	
18	SPARE	18	
A	19 HIGH SUCTION SCRUBBER LEVEL STAGE 1	19	
A	20 HIGH SUCTION SCRUBBER LEVEL STAGE 2	20	
A	21 HIGH SUCTION PRESSURE STAGE 1	21	18-BL-S21
A	22 HIGH DISCHARGE PRESSURE STAGE 1	22	18-BL-S22
A	23 HIGH DISCHARGE TEMPERATURE STAGE 1	23	18-BL-S23
A	24 HIGH DISCHARGE TEMPERATURE STAGE 2	24	18-BL-S24
A	25 HIGH DISCHARGE PRESSURE STAGE 2	25	18-BL-S25
26	SPARE	26	
27	SPARE	27	
28	SPARE	28	
29	SPARE	29	
30	SPARE	30	
31	SPARE	31	
32	SPARE	32	
33	SPARE	33	
34	SPARE	34	
35	SPARE	35	
36	SPARE	36	
37	SPARE	37	
38	SPARE	38	
39	SPARE	39	
40	SPARE	40	
41	SPARE	41	
42	SPARE	42	
43	SPARE	43	
44	SPARE	44	
45	SPARE	45	
46	SPARE	46	
ESD	47 EMERGENCY STOP	47	18-BL-S47
ESD	48 REMOTE SHUTDOWN	48	18-BL-S48
B	49 LOSS OF IGNITION (LESS THAN 90 VDC)	49	18-BL-S49
A	50 OVERSPEED	50	18-BL-S50
B	51 UNDERSPEED	51	18-BL-S51
A	52 MANUAL STOP	52	18-BL-S52
A	60 WATCHDOG TIMER	60	18-BL-S60
A	61 LOSS OF SPI LINK	61	18-BL-S61
B	62 LOW DC VOLTAGE (ALARM)	62	18-BL-S62

TERMINAL BLOCK LOCATED ON BACK OF TTD IS PHYSICALLY ON THE LEFT

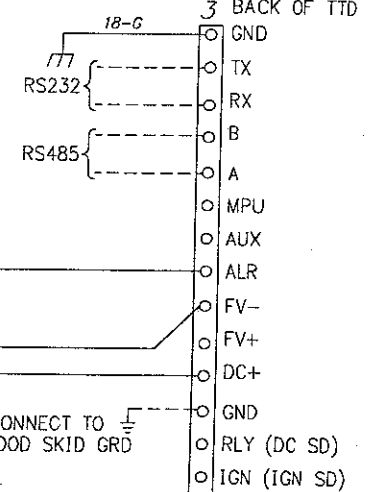


NON-INCENDIVE WIRING

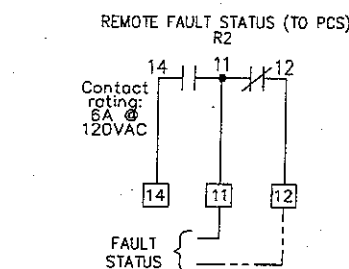
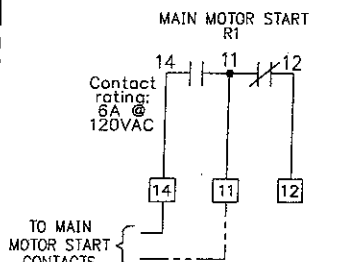
INCENDIVE WIRING



COMMUNICATIONS ARE ONLY AVAILABLE WHEN DC POWER IS APPLIED



SETUP A = 1
IGN. DELAY = 0 SECS



NOTE: TYPICAL CONNECTION IF N.O. SENSOR USED

ESD IS DESIGNED FOR ANNUNCIATION OF SHUTDOWN ONLY. ACTUAL SHUTDOWN SHOULD BE ACCOMPLISHED BY CUSTOMER'S SHUTDOWN DEVICE MOUNTED LOCALLY.

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BRITANNIA INDUSTRIES
ELECTRIC MOTOR, 2 STAGE RECIP
COMPRESSOR UNIT CONTROL PANEL (MURPHY TTD-2)
MURPHY ANNUNCIATOR WIRING DIAGRAM
UNIT #20501

LSD: PROJECT No. PN27067 SCALE: NTS DRAWING No. MT-27067-AA-600-00 REV. 0

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