
COX

Research and Technology, Inc.

IRRIGATION MART
SIMPLEX PUMP
CONTROL PANEL
COLUMBO MARINE

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	1	
HP	15	
FLA	41.6	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Pentair	
CATALOG NUMBER	P6A0150A4	
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	No	(Floats, Bubbler, Other)
CAPACITORS	N/A	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

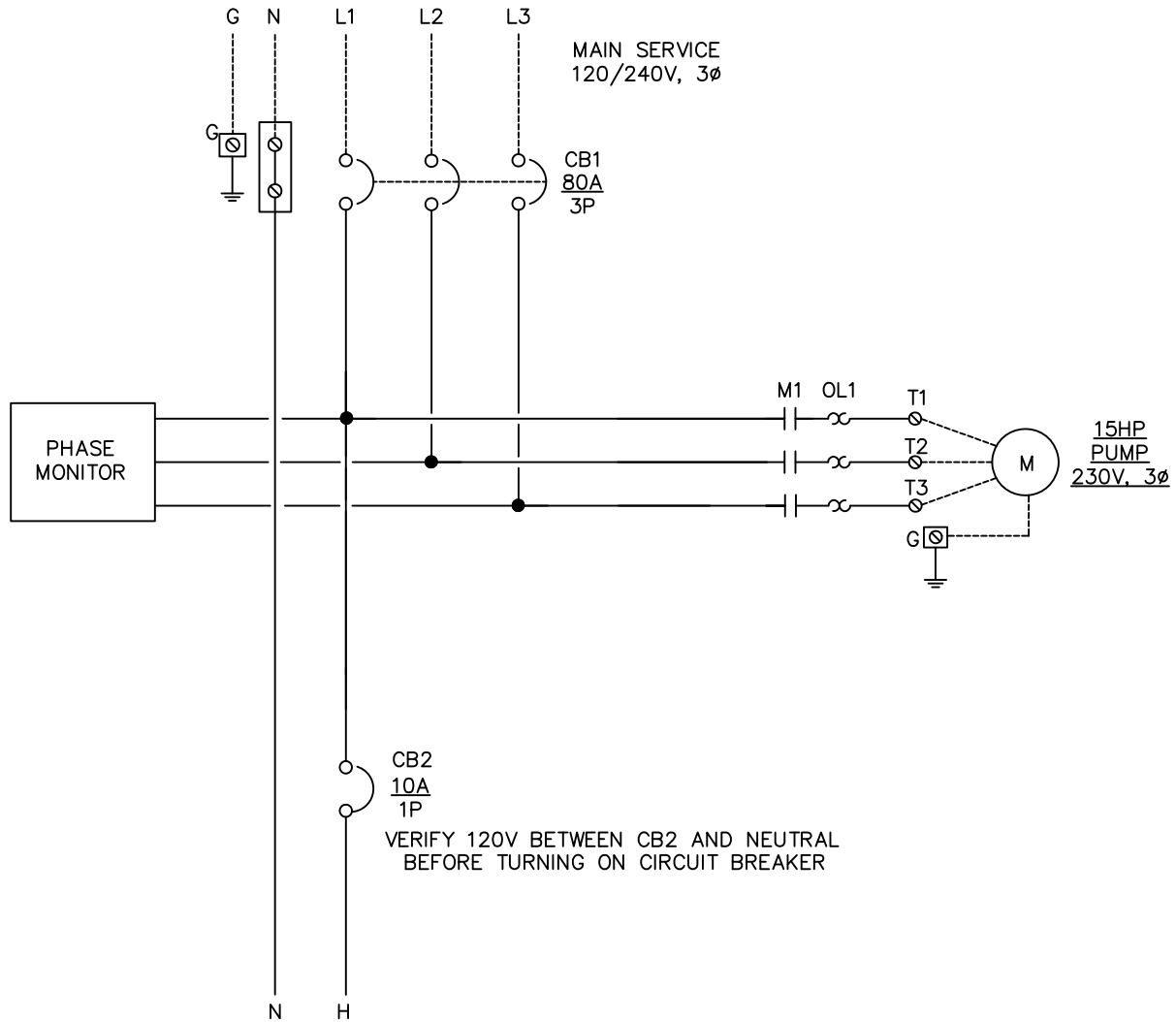
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
PHASE MONITOR	X	
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED	X	
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

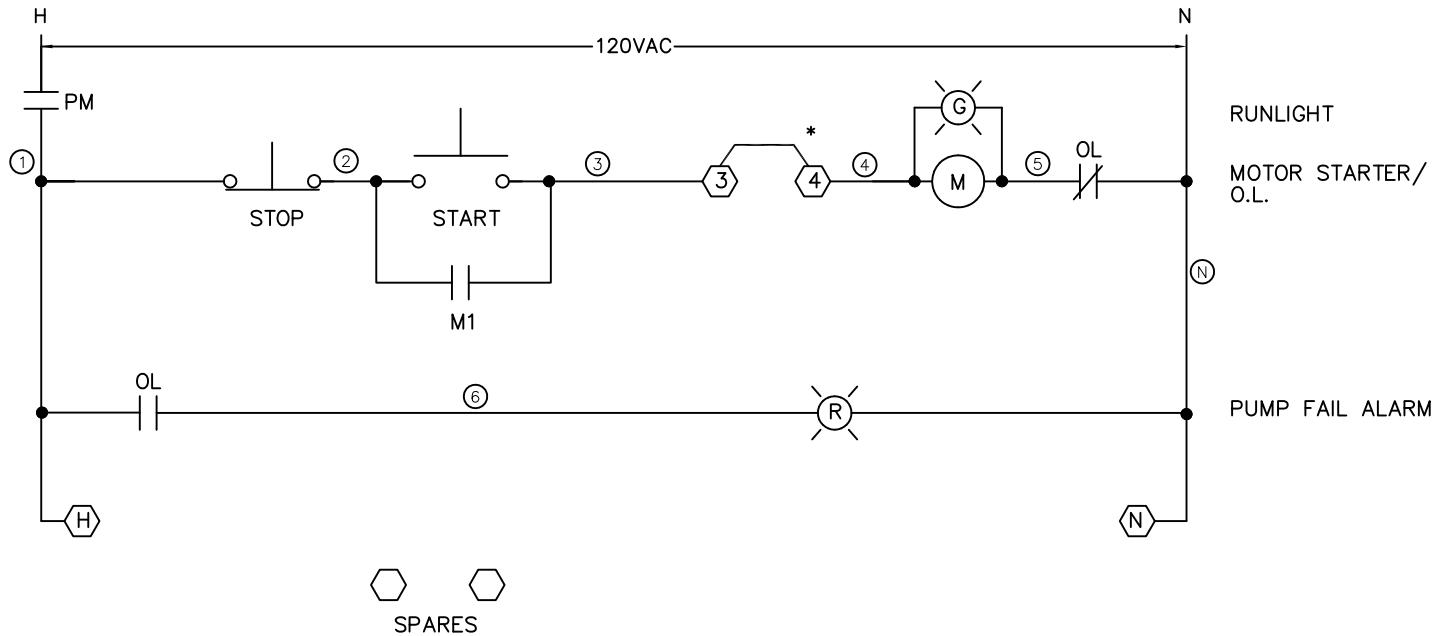
SOLD TO: Irrigation Mart
TAG : COLUMBO MARINE

SHIP TO:

Drawing Title	PANEL DESCRIPTION						
		1	ADDED PHASE MONITOR				4/28/06
DATE 2/17/06	REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
				R.C.	BY C. RACHAL	BY	DATE
	Project Title						
	SIMPLEX PUMP CONTROL PANEL		<u>COX</u>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
			Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER	CP-2313
						SHEET NUMBER	1

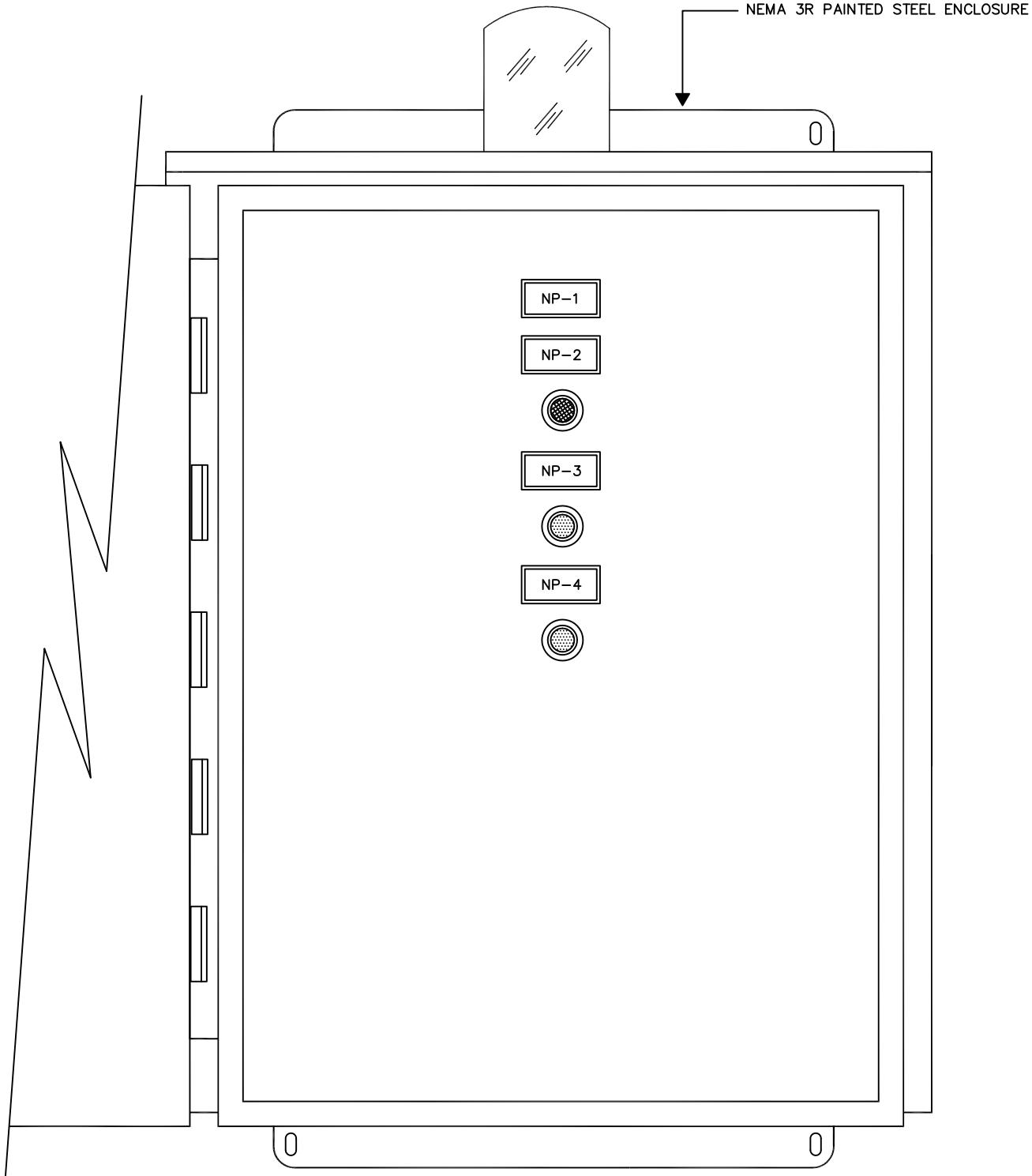


	Drawing Title					
	POWER DIAGRAM					
		1	ADDED PHASE MONITOR		4/28/06	
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 2/17/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			PURCHASE ORDER NUMBER	
	SIMPLEX PUMP CONTROL PANEL	Research and Technology, Inc. <hr/> <hr/>			DRAWING NUMBER	CP-2313
					SHEET NUMBER	2



* REMOVE JUMPER AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title					
	CONTROL DIAGRAM					
		1	ADDED PHASE MONITOR		4/28/06	
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 2/17/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			PURCHASE ORDER NUMBER	
	SIMPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER CP-2313	
					SHEET NUMBER 3	



VIEW OF INSIDE OF ENCLOSURE

NOTE:
SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.

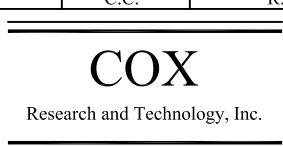
NAMEPLATE SCHEDULE

NP-1	PUMP
NP-2	RUN
NP-3	START
NP-4	STOP

	Drawing Title						
	ENCLOSURE						
			1	ADDED PHASE MONITOR			4/28/06
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 2/17/06	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE	
	Project Title		COX Research and Technology, Inc.		PURCHASE ORDER NUMBER		
	SIMPLEX PUMP CONTROL PANEL		P.O. Box 77808 Baton Rouge, LA 70809		DRAWING NUMBER		
			Ph. (225)756-3271 Fax (225)755-1030		CP-2313		
					SHEET NUMBER		
					4		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	SAGINAW	SCE-20R1608LP	ENCLOSURE
1a	1	SAGINAW	SCE-20P16	BACKPLATE
2	1	ABB	A50-30-11-84	MOTOR STARTER
3	1	ABB	TA75DU52	O.L. RELAY 1 (36-52A)
4	1	SQUARE D	QOU380	CB1
5	2	ACI	JR22AN11B	PUSH BUTTON
6	1	ACI	JR22FG	GREEN PILOT LIGHT
7	1	AC/DC	BL5R-120	ALARM LIGHT
8	1	SQUARE D	QOU110	CB2
9	1	MARATHON	1321580	NEUTRAL BLOCK
10	1	SSAC	PLMU11	PHASE MONITOR
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24				

	Drawing Title							
	BILL OF MATERIALS							
				1	ADDED PHASE MONITOR		4/28/06	
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 2/17/06			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE		
	Project Title		 COX Research and Technology, Inc.		PURCHASE ORDER NUMBER P.O. Box 77808 Baton Rouge, LA 70809 DRAWING NUMBER CP-2313 SHEET NUMBER 5			
	SIMPLEX PUMP CONTROL PANEL							