
COX

Research and Technology, Inc.

SANTA MONICA 20HP SOFT START CONTROL PANEL

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

CP-1950

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	1	
HP	20	
FLA	27	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
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		(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

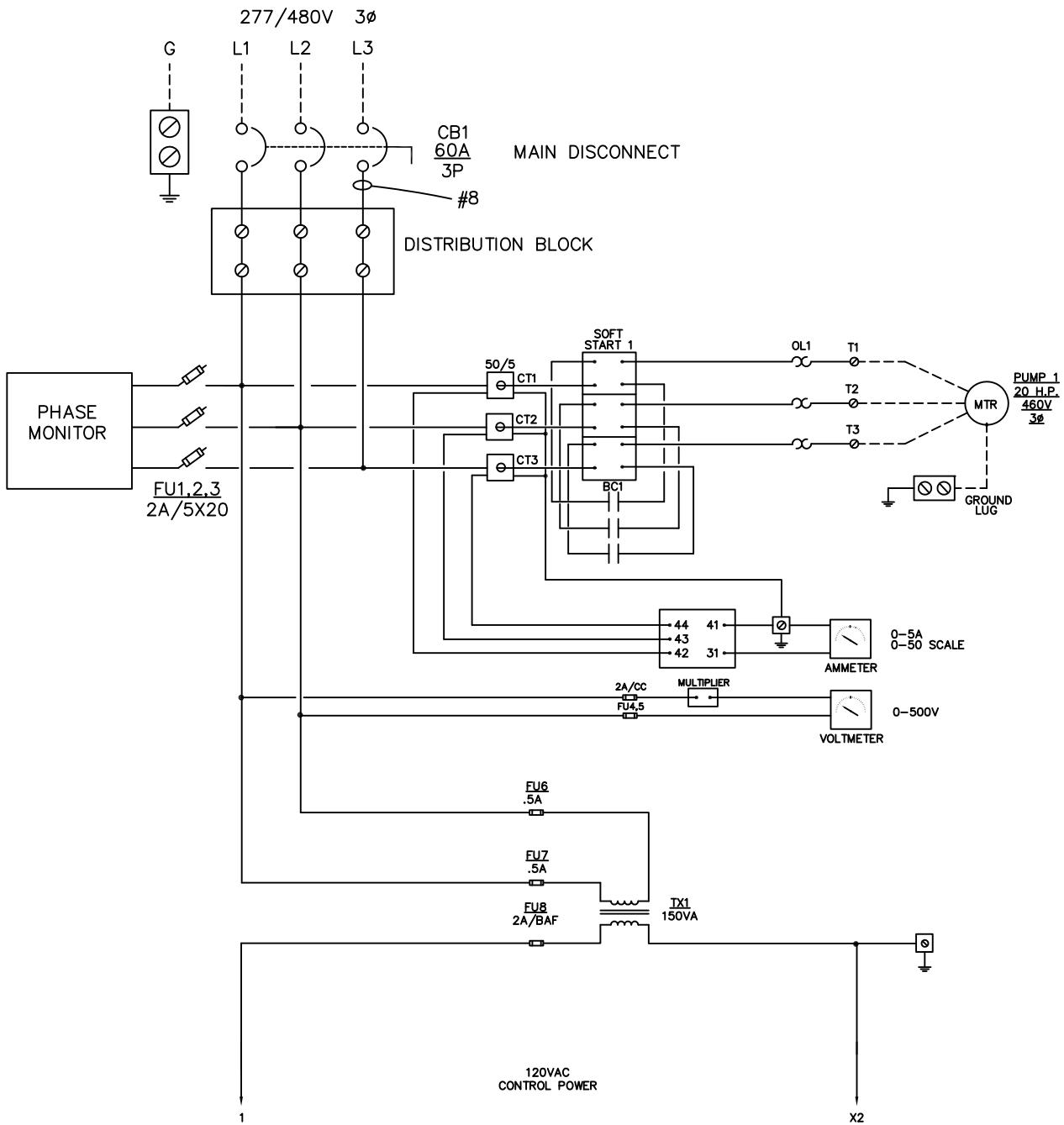
OPTIONS:

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

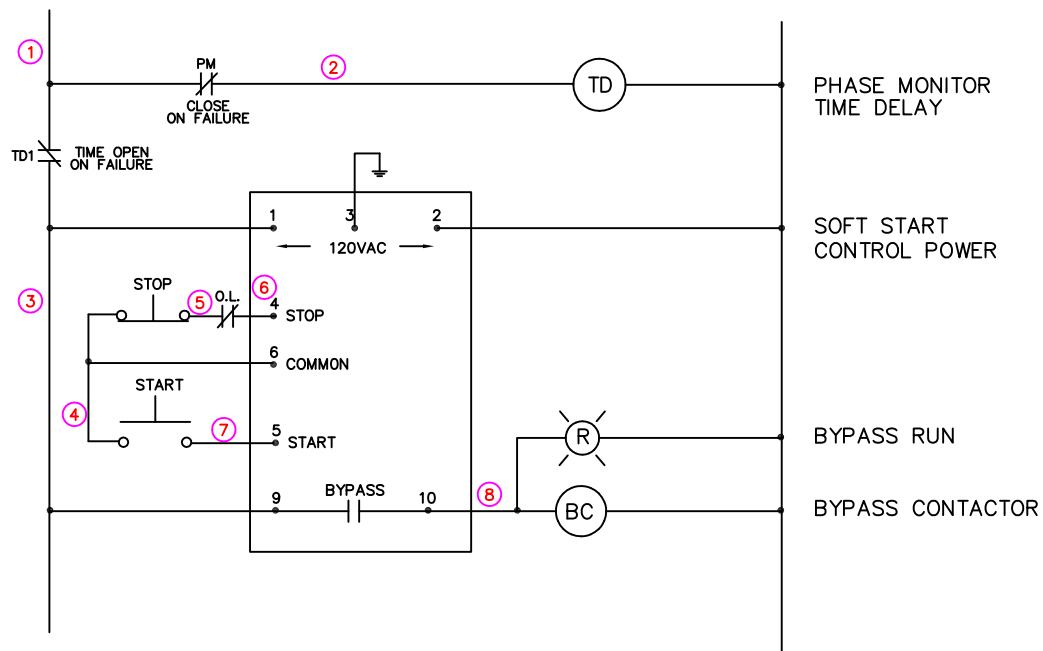
SOLD TO: Irrigation Mart
TAG : Santa Monica
 Soft Start

SHIP TO: _____

	Drawing Title					
	PANEL DESCRIPTION					
9/02/04 11/11/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE	
	Project Title			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	20 HP SOFT START CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1950	
					SHEET NUMBER 1	

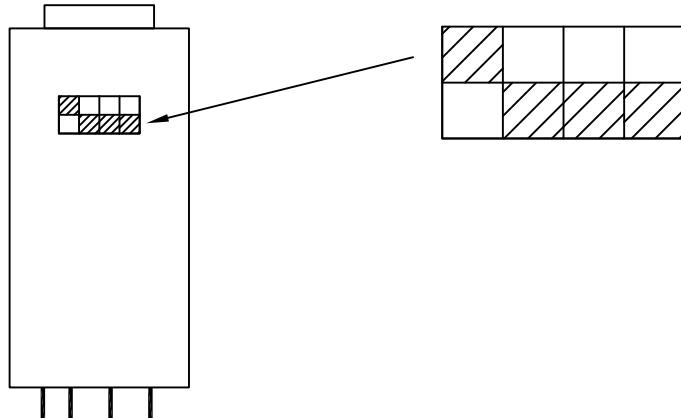


	Drawing Title					
	POWER DIAGRAM					
DATE 11/11/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
Project Title					PURCHASE ORDER NUMBER	
20 HP SOFT START CONTROL PANEL	COX	Research and Technology, Inc.			DRAWING NUMBER	CP-1950
					SHEET NUMBER	2



PHASE MONITOR
TIME DELAY
FACTORY SETTINGS
DO NOT DISTURB!

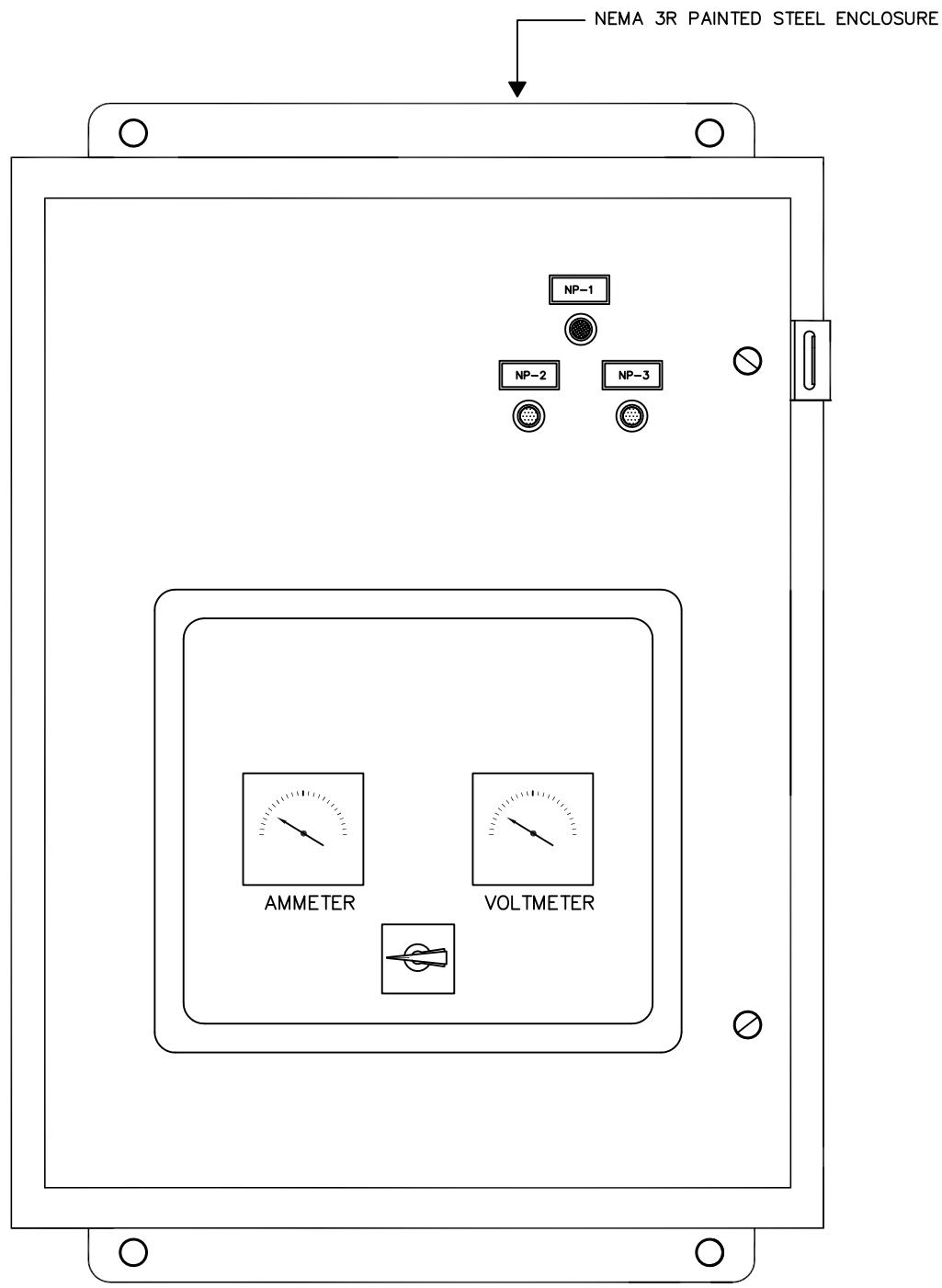
FACTORY SETTINGS



SOFT START
RAMP UP 10 SEC.
RAMP DOWN 10 SEC.
INITIAL VOLTAGE 30%

PHASE MONITOR
480V
UNBALANCE 5%
TRIP DELAY 5 SEC.

	Drawing Title					
	CONTROL DIAGRAM					
DATE 11/11/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE	BY
			BY C. RACHAL		APPROVED	
	Project Title 20 HP SOFT START CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1950		
				SHEET NUMBER 3		



VIEW OF FRONT OF PANEL

NAMEPLATE SCHEDULE

NP-1	BYPASS RUN
NP-2	STOP
NP-3	START

NOTE:

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

	Drawing Title					
	ENCLOSURE					
DATE 11/11/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
	Project Title		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	20 HP SOFT START CONTROL PANEL	COX Research and Technology, Inc.	Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1950		
				SHEET NUMBER		
				3		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	B-LINE	24208RHC	ENCLOSURE
1a	1	B-LINE	N2420P	BACKPLATE
2	1	ABB	S1NO60TL	CB1 480V 3P 60A
3	1	ABB	TA42DU32	O.L. RELAY (22-32A)
4	1	ABB	PSS30/52-500F	SOFT START
5	1	ABB	A30-30-10-84	BYPASS CONTACTOR
6	1	MARATHON	1323580	DISTRIBUTION BLOCK
7	1	SSAC	PLMU-11	PHASE MONITOR
8	1	ACI	JR22FR	RED LIGHTS
9	2	ACI	JR22AN11B	PUSH BUTTONS
10	1	OMRON	H3YN2AC120	TD1
11	1	ABB	T4150PSF1	TRANSFORMER W/COVERS
12	1	B LINE	HWK1212	WINDOW KIT
13	1	SIMPSON	4TL72	AMMETER
14	1	SIMPSON	1X099	VOLTMETER
15	1	ELECTROSWITCH	3115A	SWITCH
16	3	ITT	2SFT500/50:5	CURRENT TRANSFORMER
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	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/11/04			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
				C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		PURCHASE ORDER NUMBER			
	20 HP SOFT START CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-1950			
					SHEET NUMBER 4			