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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
FOREST HILLS

# FIELD REVISION

October 23, 2014

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

CP-1540r2

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	7.5	
FLA	39/34	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Barnes/Myers	
CATALOG NUMBER	4SE7524L/4VHS75M 4-21	

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	(FLOATS, Bubbler, Other)
CAPACITORS	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

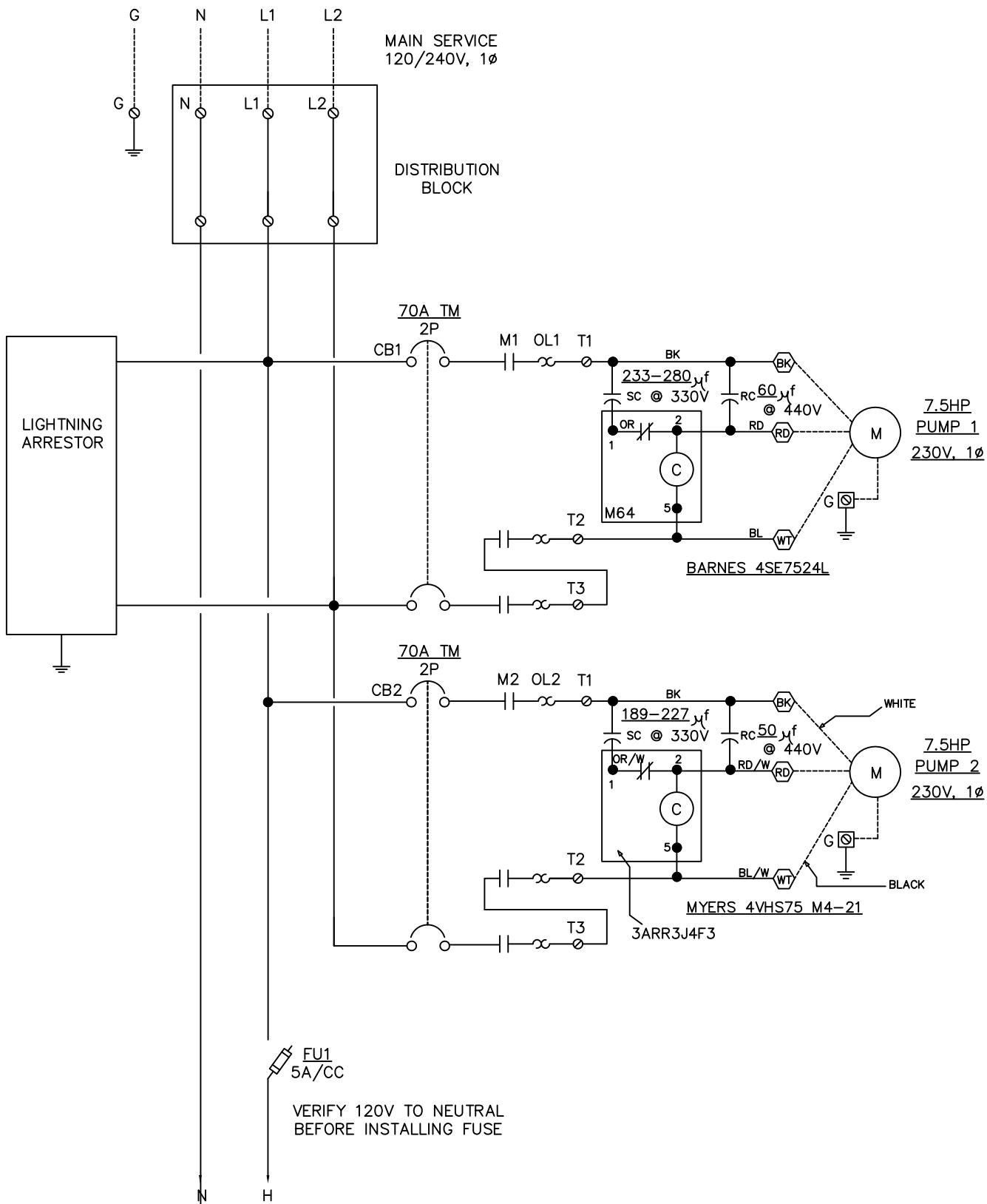
OPTIONS:

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

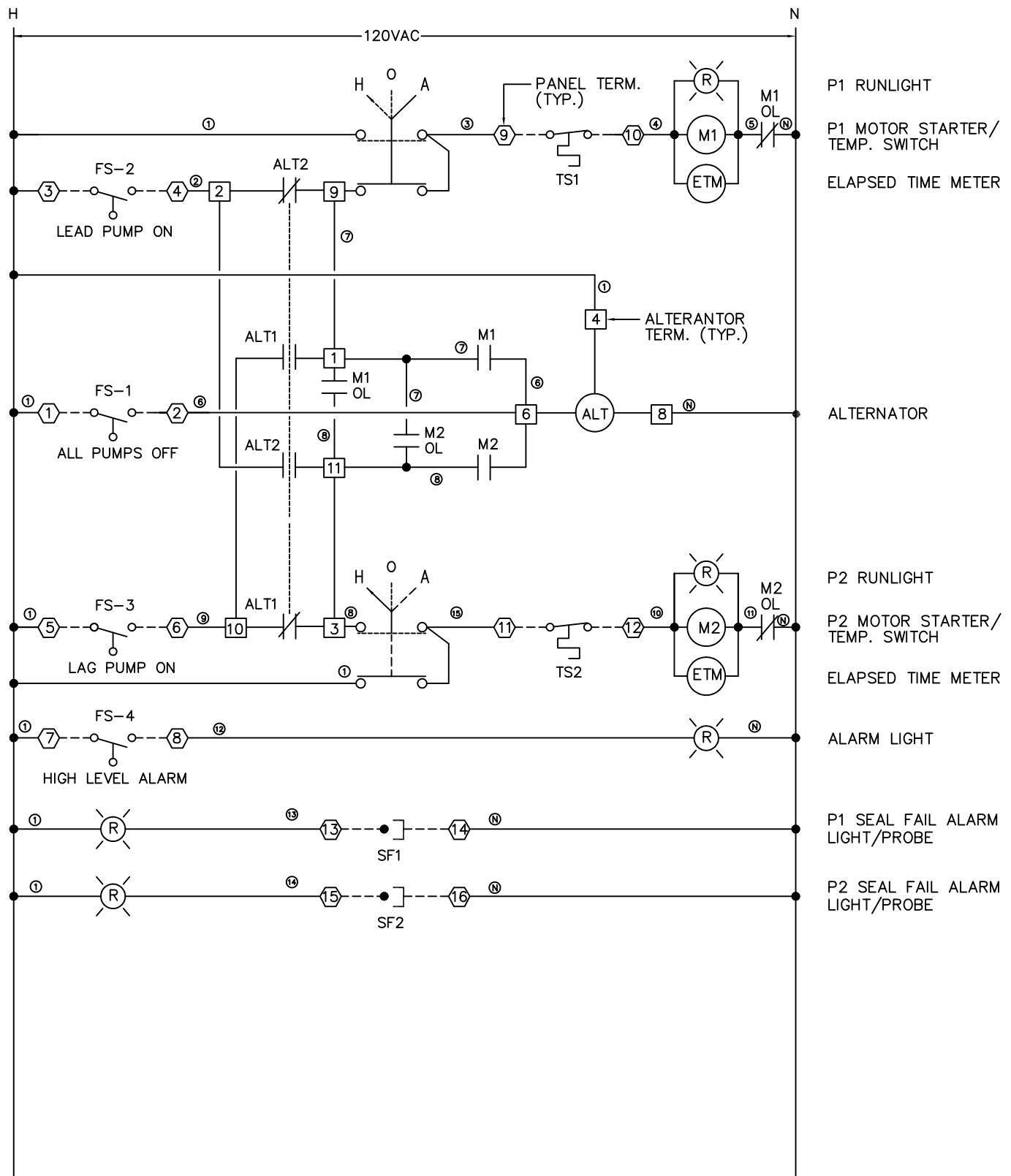
SOLD TO: Delta Process - Denham Springs, LA  
TAG : FOREST HILLS

SHIP TO: Delta Process - Ruston, LA

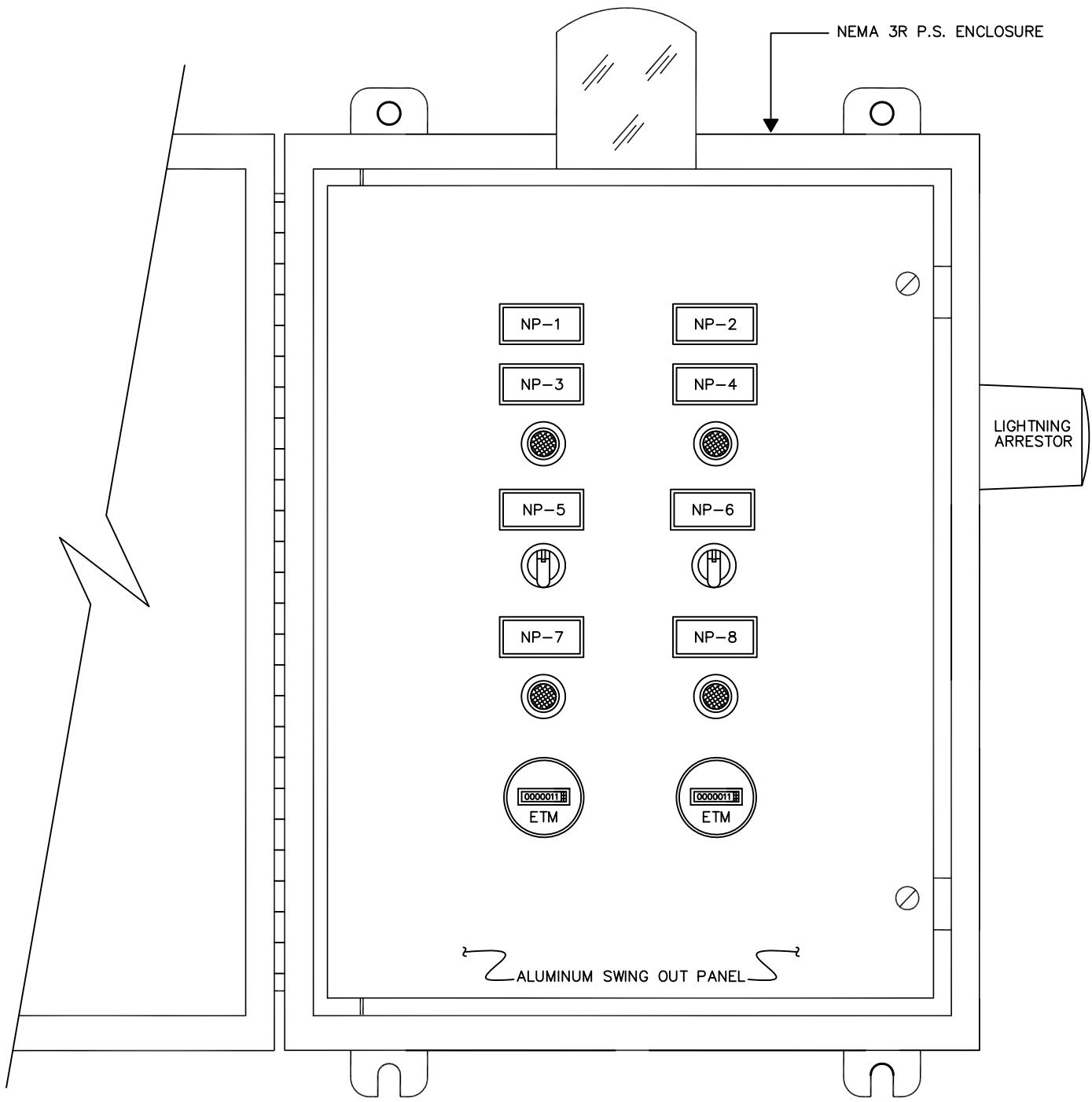
	Drawing Title  <b>PANEL DESCRIPTION</b>								
		REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION DRAWN T.L. BY E. ECKER	ECN	DATE	BY		
DATE 10/23/14	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1540r2 SHEET NUMBER 1			



	Drawing Title						
	POWER DIAGRAM						
DATE 10/23/14	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY E. ECKER	DATE APPROVED BY DATE		
Project Title  DUPLEX PUMP CONTROL PANEL	<b>COX</b> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1540r2  SHEET NUMBER 2			



	Drawing Title  CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION DRAWN T.L.	ECN APPROVED BY DATE
DATE 10/23/14				BY E. ECKER	
	Project Title  DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1540r2 SHEET NUMBER 3



### VIEW OF SWING OUT PANEL

NOTE:

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

### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL

	Drawing Title					
	ENCLOSURE					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 10/23/14	S/N	Sales Engineer	Application Engineer	DRAWN T.L. BY E. ECKER	APPROVED BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER	CP-1540r2
					SHEET NUMBER	4

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE 3R P.S.
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	MARATHON	132-3570	DIST. BLOCK
3	2	ABB	A40-30-10-84	MOTOR STARTER
4	2	ABB	TA42DU42	O.L. RELAY (29-42A)
5	2	SQUARE D	QOU270	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	1	C-H	CHSA01	LIGHTNING ARRESTER
11	1	MARATHON	6SC30A1I	FUSE HOLDER
12	2	GRASSLIN	UWZ52E	ETM
13	1	MARS	64-19003	START RELAY
14	1	DAYTON	<u>233-280</u> μf @ 220V	START CAP.
15	1	DAYTON	60μf @ 440V	RUN CAP.
16	1	MYERS	22747A000	START CAP 189-227 MED, 330 V
17	1	MYERS	21990A013	START RELAY
18	1	MYERS	19933A000	RUN CAP 50 MFD, 440 V
19				
20				
21				
22				
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 10/23/14			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
					T.L.	BY E. ECKER	BY	DATE	
	Project Title		 <b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1540r2  SHEET NUMBER 5			
	DUPLEX PUMP CONTROL PANEL								