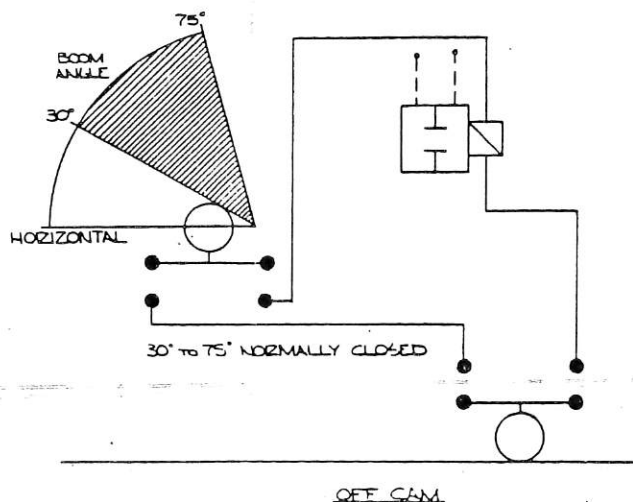
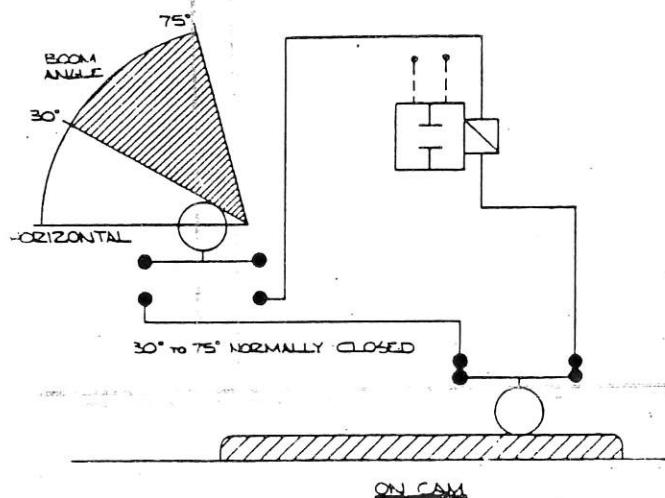
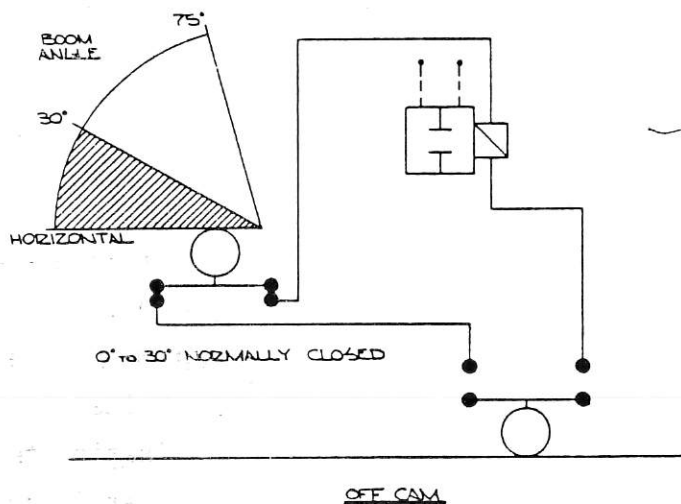
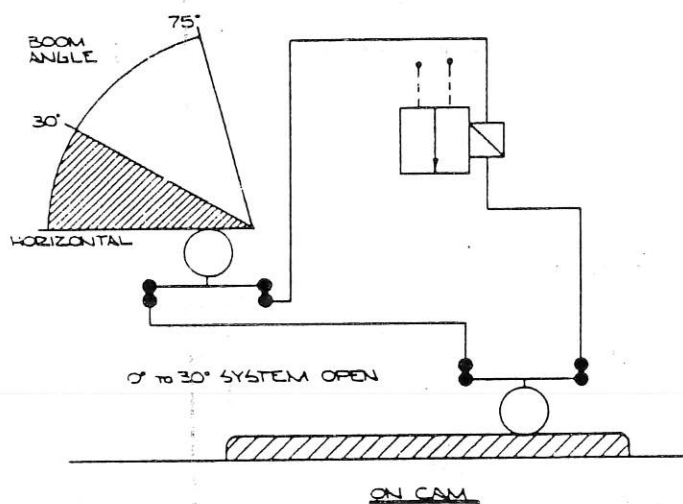
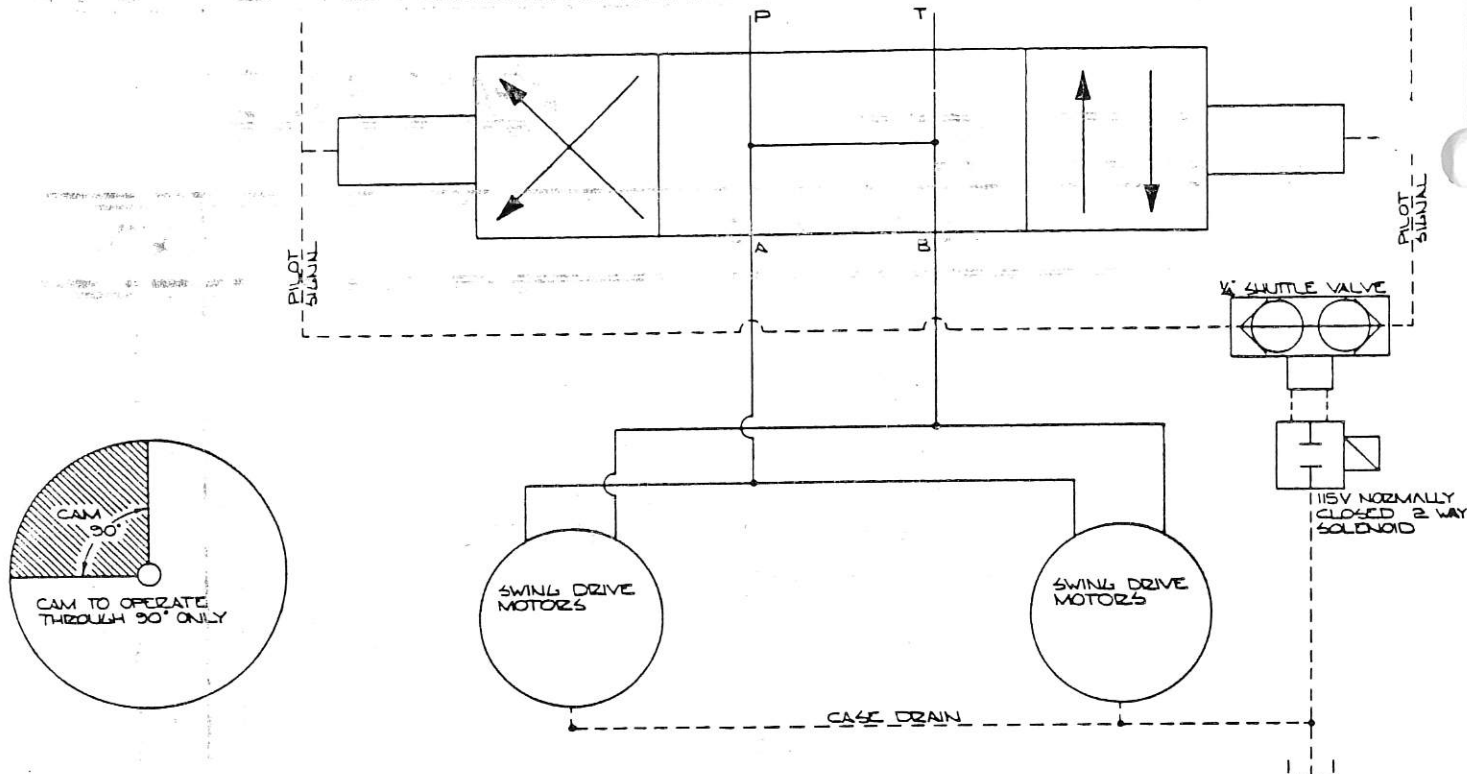


NOTE:
SEE PARTS LIST (FOLLOWING PAGE) FOR COMPONENTS AND SPECIFICATIONS.

JACOBS BROTHERS MACHINE WORKS LTD.			
7983 PROGRESS WAY DELTA, B.C. V4G 1A3			
TOLERANCES (EXCEPT AS NOTED)	SCALE	DRAWN BY DELCOURT	APPROVED BY
DECIMAL	DATE DEC/86		
FRACTIONAL	EQUIP. CARLO STORAGE CRANE RE 1200 ICEBREAKER	JOB No. 1140	
ANGULAR	TITLE ELECTRICAL SCHEMATIC	DWG. No. B10451	
		SHT. OF SHTS.	



EQUIPMENT DECK CRANE

SERIAL NO. 1140

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	800T-FC16A	Start Stop Switch	1
2	RU38-DBA	Electrical Rotary Coupling	1
3	802M-AY5	Limit Switch (Boom)	1
4	802M-AY5	Limit Switch (Rotation)	1
5	SV10C	Solenoid Valve (Normally Closed)	1
6	P95030	12 Volt Supply	1
7	M451	Dash Light	3
8	VPF 150	Cab Light	1
9	CKH 20-B	Defrost Heater	1
10	WHC 1512	Cab Heater	1
11	WC19624	Wiper Motor	1
12	573086	Switch Panel (Double Breaker Pole)	1
 <u>SUPPLIERS:</u> Allen Bradley-Items 1,3,4, & 7 Boche-Item 11 Chromalox-Item 9 & 10 Lyco-Item 6 Marinetic-Item 12 Modular Controls-Item 5 Scepter-Item 8 Tor Mag-Item 2			



LEROY SOMER
...THE BETTER ALTERNATIVE

	NEMA FRAME	SYNCH SPEED	FULL LOAD SPEED	VOLTAGE* and FREQUENCY	AMPERES		TORQUE (LS-FT)			% EFFICIENCY			POWER FACTOR			N C E O M A E
					FULL LOAD (FLC)	LOCKED ROTOR % of FLC	FULL LOAD (FLT)	BREAK DOWN	LOCKED ROTOR % of FLT	1/2	3/4	4/4	1/2	3/4	4/4	
Powerbloc® TEFC <ul style="list-style-type: none">• Totally enclosed fan cooled• Class B insulation 40°C ambient• 230/460V 60Hz 1.15 service factor• 190/380V 50Hz 1.0 service factor	405TS	3600	3550	208 @ 60Hz	249	630	146	220	225	88	89	91	83	86	88	G
				460 @ 60Hz	112	700		245	250	89	91	91	84	90	91	
		3000	2950	380 @ 50Hz	142	504	178	183	185	89	91	92	83	86	88	E
	405T	1800	1770	208 @ 60Hz	250	605	293	207	235	88	90	91	76	82	86	H
				460 @ 60Hz	113	670		230	260	90	90	91	77	84	89	
		1500	1470	380 @ 50Hz	145	475	357	170	195	91	92	93	75	82	86	E
	444T	1200	1180	208 @ 60Hz	276	612	439	270	200	90	91	91	76	86	87	H
				460 @ 60Hz	125	580		300	220	89	90	92	75	81	83	
		1000	980	380 @ 50Hz	140	550	535	220	165	90	92	92	79	86	87	F
	505	900	885	208 @ 60Hz	273	550	586	200	125	39	91	92	73	78	80	F
			460 @ 60Hz	123	550		220	140	91	92	93	74	78	81		
OPEN DRIP PROOF <ul style="list-style-type: none">• Class F insulation 40°C ambient• Continuous duty• 230/460V 60Hz 1.15 service factor• 190/380V 50Hz 1.0 service factor	355TS	3600	3525	208 @ 60Hz	245	648	149	207	160	89	90	91	87	88	91	H
				460 @ 60Hz	110	720		230	180	89	90	90	88	90	92	
		3000	2925	380 @ 50Hz	121	600	180	175	135	90	91	91	89	91	93	E
	404T	1800	1765	208 @ 60Hz	264	515	293	212	190	89	90	90	78	82	85	G
				460 @ 60Hz	120	606		250	225	91	92	92	77	83	84	
		1500	1465	380 @ 50Hz	138	480	358	190	170	91	91	92	77	82	84	D
	444T	1200	1180	208 @ 60Hz	270	530	445	225	170	89	90	91	75	77	79	G
				460 @ 60Hz	121	590		250	190	90	91	92	76	79	81	
		1000	980	380 @ 50Hz	133	487	536	188	145	91	92	92	76	78	80	H
	445T	900	885	208 @ 60Hz	282	505	554	190	120	91	92	92	72	75	77	G
			460 @ 60Hz	128	560		210	135	92	93	93	73	77	79		
ECO+ Premium Efficiency Severe Duty <ul style="list-style-type: none">• Premium Efficiency with Cast Iron Construction• TEFC• 230/460V, 60 Hz 1.15 Service Factor• Continuous Duty	405TS	3600	3550	460 @ 60Hz	113.9	529	147.3	200	170	90.2	93.5	94.5	84	86	87	G
	405T	1800	1780	460 @ 60Hz	114.6	531	294.9	200	230	92	94	95.1	83	85	86	G
	444T	1200	1175	460 @ 60Hz	119.9	592	446.3	200	160	91	94	94.4	75	80	83	G

NOTES:

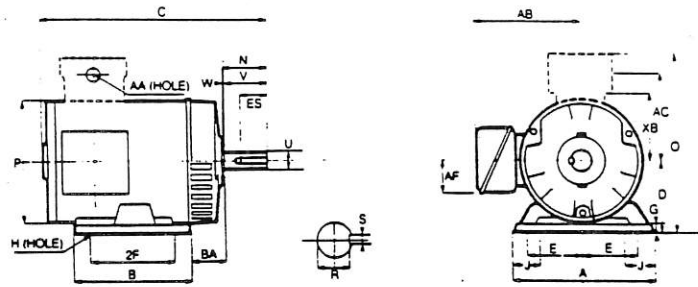
* For ampere value at 230V, double 460V value.

† Efficiency values shown are NEMA nominal and tested.

Data is subject to change without notice.

SPECIFICATIONS:

- ODP
- Housing:
Rolled Steel - Frames 56 to 215T & 447T to 507
Alpac - Frames 254T to 445T
- Cast Iron Endbells: Frames 143T to 507
- TERMINAL BOX POSITIONS:**
- F-1 Assembly, Standard (Solid line)
- F-0 Assembly, Upon Request



ALL DIMENSIONS IN INCHES

FRAME	STANDARD SHAFT							KEYWAY							SHORT SHAFT							KEYWAY						
	U	V	N	W	R	S	ES	U	V	N	W	R	S	ES	U	V	N	W	R	S	ES	U	V	N	W	R	S	ES
56	5/8	1 1/8	2 3/16	3/16	1 3/4	3/16	1 3/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
143T-145T	7/8	2 1/4	2 3/8	1/8	1 3/4	3/16	1 3/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
182T-184T	1 1/8	2 3/4	2 7/8	1/8	1 3/4	3/16	1 3/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
213T-215T	1 3/8	3 3/8	3 1/2	1/8	1 3/4	3/16	2 3/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
254T-256T	1 5/8	4	4 1/4	1/4	1 3/4	3/8	2 7/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
284T-286T	1 7/8	4 3/4	4 7/8	1/4	1 3/4	1/2	3 1/4	1 3/8	3 3/4	3 1/2	1/4	1 3/4	3/8	1 7/8	1 7/8	3 3/4	4	1/4	1 3/4	1/2	2	1 3/8	3 3/4	3 1/2	1/4	1 3/4	3/8	1 7/8
324T-326T	2 1/8	5 1/4	5 1/2	1/4	1 3/4	1/2	3 3/8	1 7/8	3 3/4	4	1/4	1 3/4	1/2	2	1 7/8	3 3/4	4	1/4	1 3/4	1/2	2	1 7/8	3 3/4	3 1/2	1/4	1 3/4	3/8	1 7/8
364T-365T	2 3/8	5 5/8	6 1/8	1/4	2 1/4	3/8	4 1/4	1 7/8	3 3/4	4	1/4	1 3/4	1/2	2	1 7/8	3 3/4	4	1/4	1 3/4	1/2	2	1 7/8	3 3/4	3 1/2	1/4	1 3/4	3/8	1 7/8
404T-405T	2 7/8	7 1/4	7 3/8	1/4	2 1/4	3/8	4 1/4	2 1/8	4 1/4	4 3/8	1/8	1 3/4	1/2	2 3/4	2 1/8	4 1/4	4 3/8	1/8	1 3/4	1/2	2 3/4	2 1/8	4 1/4	4 3/8	1/8	1 3/4	3/8	1 7/8
444T-447T	3 3/8	8 1/2	8 3/8	1/8	2 3/4	7/8	6 7/8	2 3/8	4 3/4	4 7/8	1/8	2 1/4	3/8	3	2 3/8	4 3/4	4 7/8	1/8	2 1/4	3/8	3	2 3/8	4 3/4	4 7/8	1/8	2 1/4	3/8	3
505-507	3 3/8	9 1/4	9 3/8	1/8	2 7/8	7/8	7 1/4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

FRAME	TYPE	A	B	C (MAX)	D	E	2F	G	H	J*	O	P	BA	AA	AB	AC	AF
56	—	6 1/2	4	10 7/8	3 1/2	2 7/16	3	7/8	1 1/2	N/A	6 7/16	5 7/8	2 3/4	7/8	5	4	1 1/16
143T	—	6 1/2	6 1/2	11 1/16	3 1/2	2 3/4	4	7/8	5 1/8	N/A	6 7/8	6 3/4	2 1/4	1 1/8	5 1/2	4 1/2	1 1/16
145T	—	6 1/2	6 1/2	11 1/16	3 1/2	2 3/4	5	7/8	5 1/8	N/A	6 7/8	6 3/4	2 1/4	1 1/8	5 1/2	4 1/2	1 1/16
182T	3 HP 4P 3 HP 2P	8 23/32	6 5/8	14	4 1/2	3 3/4	4 1/2	3/16	1 3/2	N/A	8 3/8	7 3/4	2 3/4	1 1/8	5 1/2	4 1/2	1 1/16
182T	5 HP 2P	9	6 23/32	15 3/4	4 1/2	3 3/4	4 1/2	1/8	1 3/2	N/A	8 7/8	8 3/4	2 3/4	1 1/8	6	5	1 1/16
184T	—	9	6 23/32	15 3/4	4 1/2	3 3/4	5 1/2	1/8	1 3/2	N/A	8 7/8	8 3/4	2 3/4	1 1/8	6	5	1 1/16
213T	—	10	8 13/16	17 7/8	5 1/4	4 1/4	5 1/2	3/16	1 3/2	N/A	9 5/8	8 3/4	3 1/2	1 1/8	6 3/4	5 3/8	2 3/16
215T	—	10	8 13/16	18	5 1/4	4 1/4	7	3/16	1 3/2	N/A	10 1/16	10 3/8	3 1/2	1 1/8	7 7/8	6	2 3/16
254T	—	11 3/16	9 3/8	22 3/8	6 1/4	5	8 1/4	1 1/16	1 7/2	1 1/2	12 1/2	9 3/8	4 1/4	1 3/8	8 1/4	7	2 3/4
256T	—	11 3/16	11 3/4	23 3/4	6 1/4	5	10	1	1 7/2	1 3/4	13	13	4 1/4	1 1/4	9 1/4	7 1/2	2 3/4
284T	2, 4 Pole 6, 8 Pole	12 3/4	12 1/2	24 1/4 25 3/16	7	5 1/2	9 1/2	1 3/8	1 7/2	2 1/16	13 3/4	13	4 3/4	1 1/2	9 1/4	7 1/2	2 3/4
286T	—	12 3/4	12 1/2	24 1/4	7	5 1/2	11	1 3/8	1 7/2	2 1/16	13 3/4	13	4 3/4	1 1/2	9 1/4	7 1/2	2 3/4
324T	—	14 7/8	13 1/2	28 3/8	8	6 1/4	10 1/2	1 3/8	1 1/16	2 7/8	15 1/2	14 1/2	5 1/4	1 1/2	11 3/8	9	4
326T	2, 6 Pole 4 Pole 8 Pole	14 7/8	13 1/2	28 3/4 30 1/16 31	8	6 1/4	12	1 1/16	1 1/16	2 7/8	15 1/2 15 1/2 17	14 1/2 14 1/2 16 3/4	5 1/4	2	11 3/8 11 3/8 12 1/2	9	4
364T	2, 4 Pole 6, 8 Pole	16 3/8	13 3/4	31 3/8 33 1/8	9	7	11 1/4	1 1/4	1 1/16	2 7/8	18	16 3/4	5 1/8	2	12 1/2	9	4
365T	2, 4 Pole 6, 8 Pole	16 3/8	13 3/4	31 3/8 33 1/8	9	7	12 1/4	1 1/4	1 1/16	2 7/8	18	16 3/4	5 1/8	2	12 1/2	9	4
404T	2, 6 Pole 8 Pole	18 3/8	15 1/2	37 3/8 38 1/16	10	8	12 3/4	1 1/2	1 1/16	3 1/4	20 3/8	20	6 3/8	2 1/2	16 3/8 17 1/2	15 1/2	7
405T	2, 4, 6 Pole 8 Pole	18 3/8	15 1/2	37 3/8 38 1/16	10	8	13 3/4	1 3/4	1 3/16	3 1/4	19 3/8 20 3/8	18 1/4 20	6 3/8	2 1/2	16 3/8 17 1/2	15 1/2	7
444T	—	20 1/2	18 3/8	41 1/16	11	9	14 1/2	1 1/2	1 3/16	3 3/4	21 3/8	20	7 1/2	2 1/2	17 1/2	15 1/2	7
445T	—	21 1/4	19 3/4	44 1/2	11	9	16 1/2	1 1/16	1 3/16	3 3/4	21 3/8	22	7 1/2	2 1/2	17 3/4	15 3/4	7
447T	—	21	23 3/4	48 7/8	11	9	20	1 1/16	1 3/16	3 3/4	22 1/16	22	7 1/2	2 1/2	17 3/4	15 3/4	7
505	—	24	21 1/4	49 1/16	12 1/2	10	18	1	1 1/16	4	25 1/2	25	8 1/2	3	22	18	7 3/8
507	—	24	25 1/4	54 9/16	12 1/2	10	22	1	1 1/16	4	25 1/2	25	8 1/2	3	22	18	7 3/8

SUBJECT TO CHANGE WITHOUT NOTICE

* Feet are Stamped Steel - 56 to 215T

For Motor Dimension Tolerances, see Engineering Section page D-20.