

ABB BALDOR RELIANCE III

Customer information packet

SUM77506-4

75HP, 1170RPM, 3PH, 60HZ, 360TY, TENV, FOOTLE

Class - None

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	360TY
Frame Material	Iron
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	CCSA US
	CSA
	UL
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	15 MIN
Feedback Device	NO FEEDBACK
Frame Prefix	X
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Inverter Code	Not Inverter
IP Rating	IP68
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	W6
Number of Poles	6
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	W00089B E 001
Layout	066930-508
Eff. date	01-21-2025
CD Diagram	416820-036
Poles	06
Leads	
Proprietary	False
Created date	04-09-2015

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007RC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

000692000MB	
SUITABLE FOR OPERATION ON PWM	
INVERTER EQUIPPED WITH IGBT	
DEVICES AND CAPABLE OF	
CARRIER	
FREQUENCY OF 2 KHZ MINIMUM	

000613007MS

CAT.NO.	SUM77506-4	SPEC NO.	P36G2700				
SER.NO.			FRAME SIZE	X0360TY			
	HP	RPM	VOLTS	AMPS	HZ	S.F.	
	75	1170	460	90.9	6-60	1.00	
	75	1170	460	90.9	60	1.15	
CONSTANT HP RPM		@		HZ	CODE	F	
TYPE	P	INSUL.CLASS	F	TORQUE	10:1_VT	DESIGN	B
D.E. BRG.	90BJ33J30X	ENCL	TENV	DUTY	15MIN	PH	3
O.D.E. BRG.	50BC03JG30X	MOTOR WEIGHT		AMB	40		
	*15 MIN IN AIR ;SUB. IN						
	SEWAGE / WATER ONLY						
	P36G2700D						

000613007RT

CAT.NO.	SUM77506-4	SPEC NO.	P36G2700				
SER.NO.				FRAME SIZE	X0360TY		
	HP	RPM	VOLTS	AMPS	HZ	S.F.	
	75	1170	460	90.9	6-60	1.00	
	75	1170	460	90.9	60	1.15	
CONSTANT HP RPM		@		HZ	CODE	F	
TYPE	P	INSUL.CLASS	F	TORQUE	10:1_VT	DESIGN	B
D.E. BRG.	90BJ33J30X	ENCL	TENV	DUTY	15MIN	PH	3
O.D.E. BRG.	50BC03JG30X	MOTOR WEIGHT		AMB	40		
	*15 MIN IN AIR ;SUB. IN						
	SEWAGE / WATER ONLY						
	P36G2700D						

Parts List

Part number	Description	Quantity
SA297284	SA P36G2700	1.000 ea
RA283481	RA P36G2700	1.000 ea
424476003WL	WIRING DIAGRAM MEDIUMA	1.000 ea
000613007RC	C UL US NAMEPLATE FOR HAZARDOUS LOC	1.000 ea
000692000MB	BALDOR RELIANCE MOTOR DATA NAMEPLATE	1.000 ea
000613007MS	NP, MEDIUM AC,INVERTER DUTY CSA,STD INDU	1.000 ea
000692000EJ	NAME PLATE	1.000 ea
000692000WC	WARNING FLAMMABLE VAPORS MAY BE PRESENT	2.000 ea
000613007RT	NP,MEDIUM AC,INVERTER DUTY,STD INDUSTRIA	1.000 ea
000901001AA	LABEL WARNING	1.000 ea
034692002AE	HCSP 1/4" 304 S.S.	2.000 ea
032018018EG	HHCS 5/8-11X2-1/4 316 SS	8.000 ea
032130020EC	HSHCS 5/8-11X2-1/2 304	8.000 ea
032620020JD	HSSS 10-24X5/8L 304S.S.	1.000 ea
034141300AC	RETAINING RING	1.000 ea
064262008J	SEAL 360 SUBMERSIBLE	1.000 ea
700385014AB	CCA #1 25' 320/360	1.000 ea
034141325AC	RETAINING RING	1.000 ea
034692003AE	PPLG 3/8" 304 S.S.	2.000 ea
064262012G	SEAL	1.000 ea
413412004B	SUBM MOISTURE PROBE	2.000 ea
413412005X	LEAD WIRE ASSY	1.000 ea
413480001R	RESISTOR ASSEMBLY-BLANKET	1.000 ea
421900192FU	ORING	1.000 ea
421900240FU	ORING	1.000 ea
004824018AF	SHELL ROTELLA OIL 10W	7.311 lb
603762061A	BRASS,SLINGER,X360TY,EXI,7BY	1.000 ea
801173002A	BRKT,DE,360SUB	1.000 ea
801174002A	MTGPLT 360 801174-1WCA	1.000 ea
032018006BM	HHCS 5/16-18X3/4 PLTGRN.	1.000 ea
004824007K	SPECIAL PAINT	0.100 ea

033775004EA	DRSCR #6-1/4 304 S.S.	10.000 ea
032018016EG	HHCS 5/8-11X2 316S.S.	4.000 ea
421900124FU	ORING	1.000 ea
034180024GD	KEY 1/2X1/2X3L 303 S.S.	1.000 ea
421900240FU	ORING	1.000 ea
801171002A	BRKT, ODE, 360 SUB	1.000 ea
004824015A	GREASE POLYREX EM	0.600 lb
032018010CG	HHCS 3/8-16X1-1/4L 316SS	3.000 ea
032018018EG	HHCS 5/8-11X2-1/4 316 SS	8.000 ea
B3630-9	SUBM THERMOSTAT TAG	1.000 ea
B-3664002	TAG, (NON REGREASABLE)	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS					
	365TY	75	P	3/60	1170	460					
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.					
90.9	*	40/F	1.15	B	F	SUB					
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)							
492384	418141074LE	---	---	.121							
PERFORMANCE											
LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFI- CIENCY					
NO LOAD	0	29.7	1200	1.08	4.56	0					
1/4	18.8	36.9	1193	15.3	52.1	91.6					
2/4	37.5	50.9	1185	29.9	73.7	93.6					
3/4	56.2	69.5	1177	45.0	81.2	93.3					
4/4	75.0	90.9	1168	60.7	83.8	92.3					
5/4	93.7	114	1157	77.0	84.7	90.8					
SPEED TORQUE											
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES						
LOCKED ROTOR		0	161	544	508						
PULL UP		300	140	473	478						
BREAKDOWN		1068	229	774	306						
FULL LOAD		1168	100	338	90.9						
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA * 15 MIN AIR											
		DR. BY D. M. BYRD		A-C MOTOR PERFORMANCE W00089-B-E001 DATA							
		CK. BY T. S. WILLIAMS									
		APP. BY D. M. BYRD									
		DATE 07/09/04									
				ISSUE DATE 07/09/04							

FRAME 365TY

RPM 1170
VOLTS 460

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 75

AMPS 90.9

CODE LETTER F

TEST DATE ---

TYPE P

DUTY *

ENCLOSURE SUB

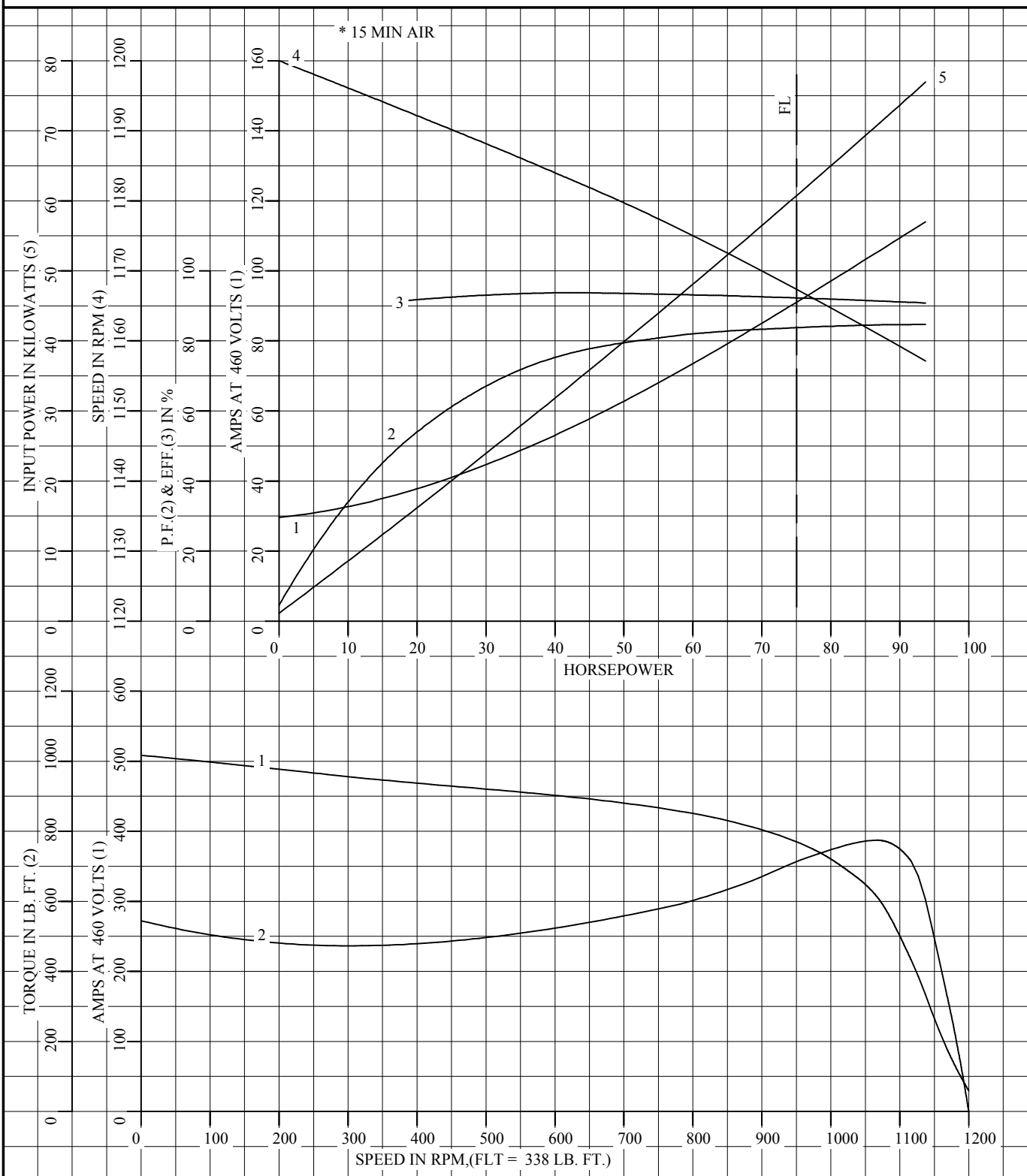
STATOR RES. @ 25 °C .121

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 492384

OHMS (BETWEEN LINES)

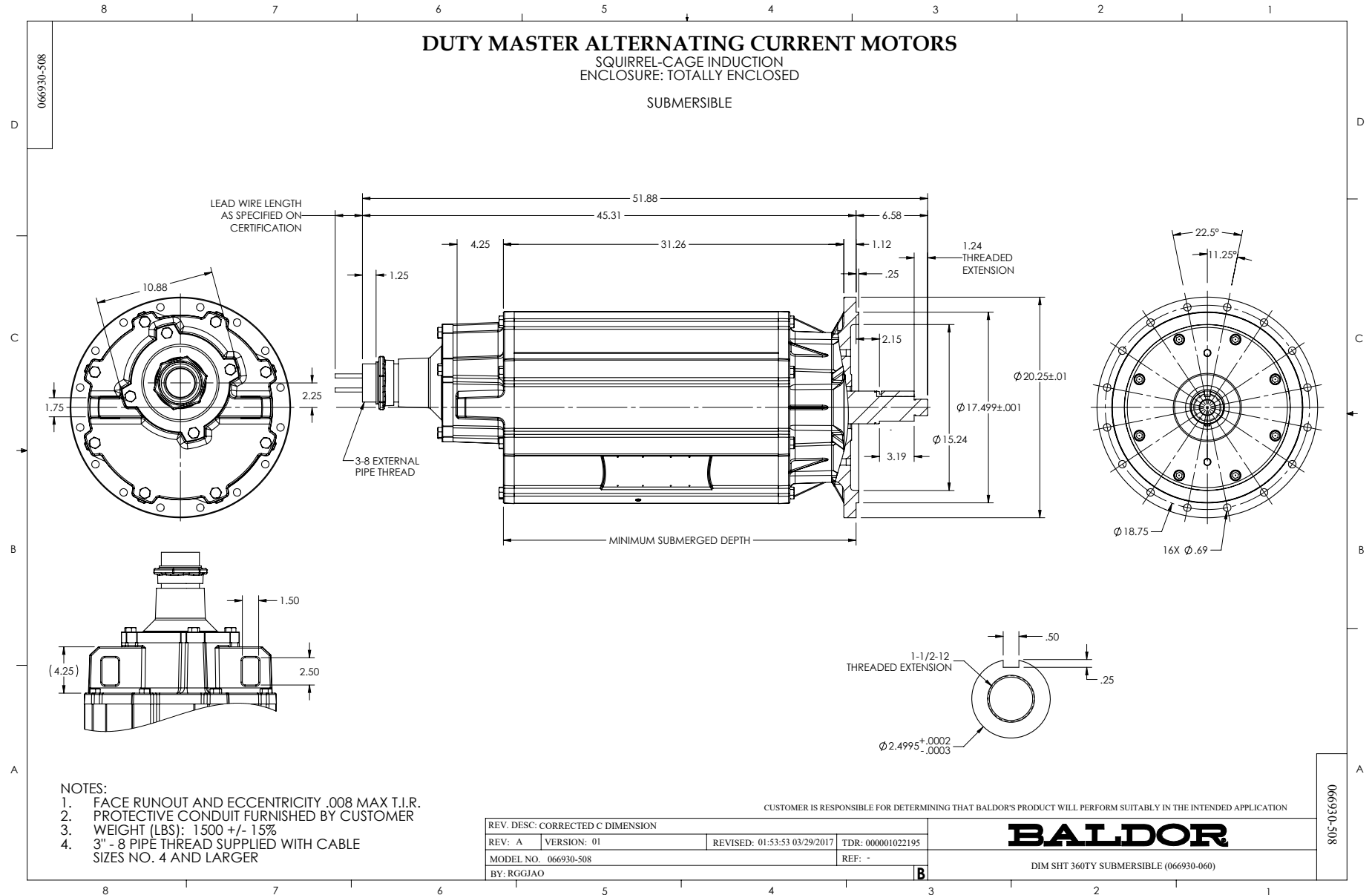


AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



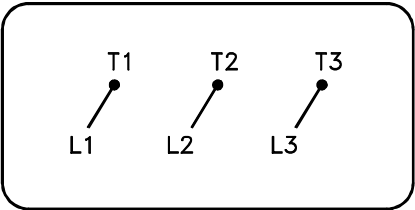
DR. BY D. M. BYRD
CK. BY T.S. WILLIAMS
APP. BY D. M. BYRD
DATE 07/09/04

**A-C MOTOR
PERFORMANCE
CURVES** W00089-B-E001
ISSUE DATE 07/09/04



416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1