

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								

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

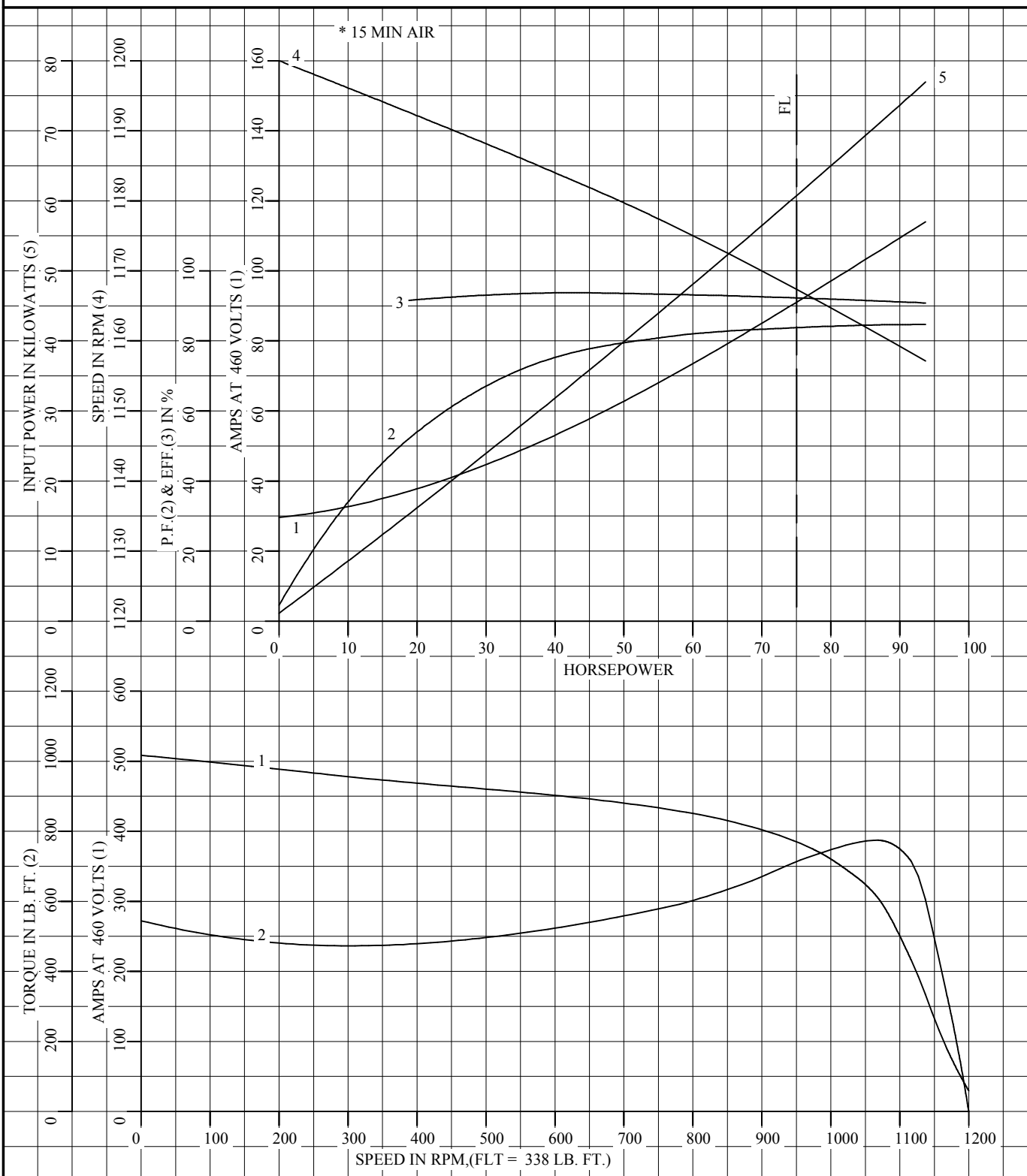
STATOR RES. @ 25 °C .121

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 492384

OHMS (BETWEEN LINES)

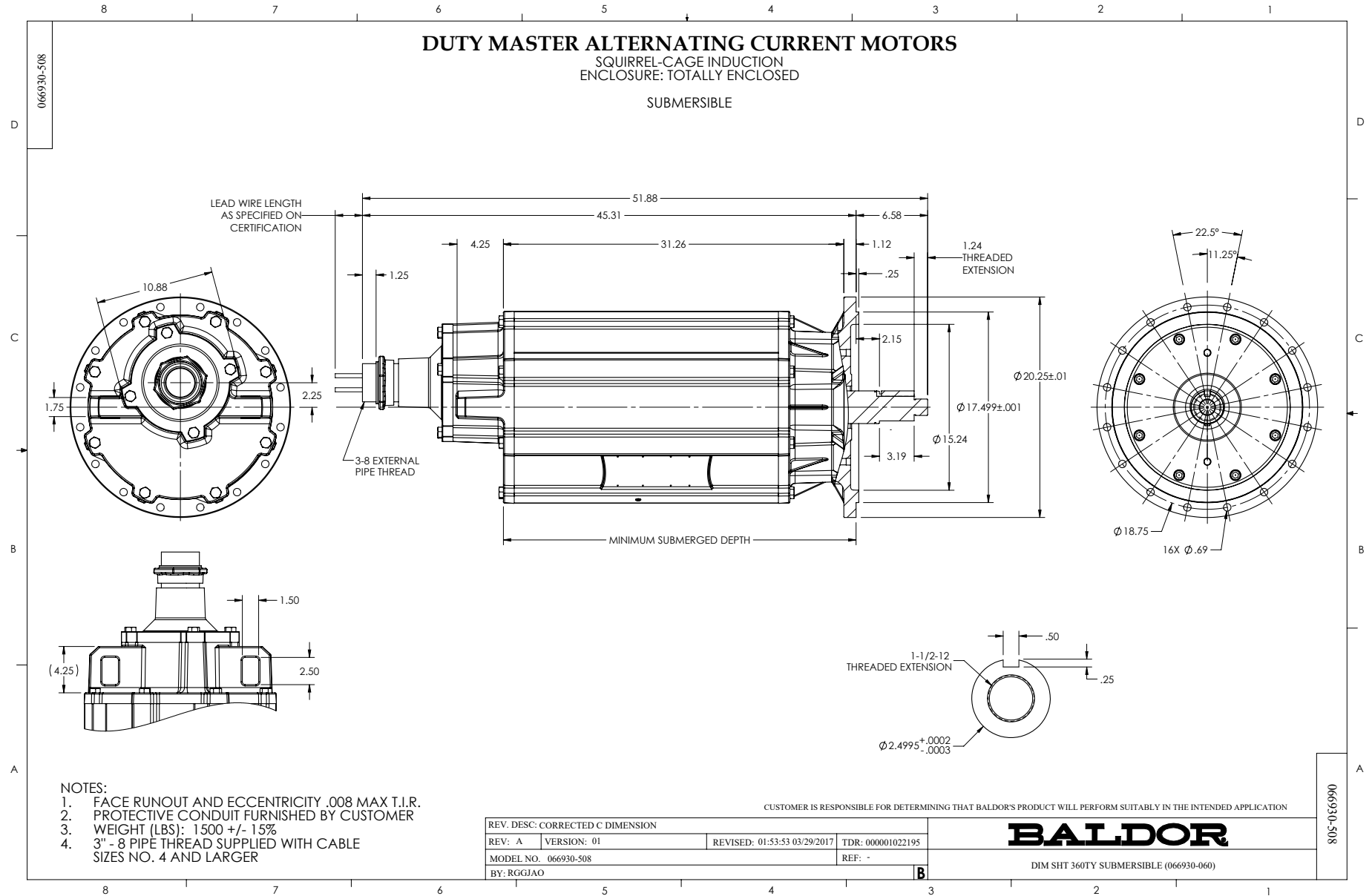


AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



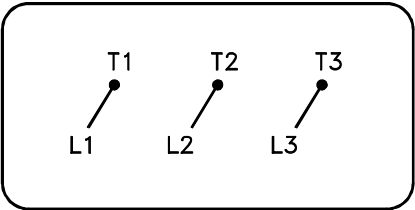
DR. BY D. M. BYRD
CK. BY T.S. WILLIAMS
APP. BY D. M. BYRD
DATE 07/09/04

**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