

ABB BALDOR RELIANCE III

Customer information packet

SUM710004-4

100HP, 1770RPM, 3PH, 60HZ, 360TY, TENV, FOOTL

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
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
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	V1
Number of Poles	4
Overall Length	47.10 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	W02034A A 001
Layout	066930-060
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Starting Method	Direct on line
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.	SUM710004-4	SPEC NO.	P36G2701				
SER.NO.				FRAME SIZE	X0360TY		
	HP	RPM	VOLTS	AMPS	HZ	S.F.	
	100	1780	460	120	6-60	1.00	
	100	1780	460	120	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						
	P36G2701F						

000613007MS

CAT.NO.	SUM710004-4			SPEC NO.		P36G2701							
	SER.NO.			FRAME SIZE			X0360TY						
	HP	RPM	VOLTS		AMPS		HZ		S.F.				
	100	1780	460		120		6-60		1.00				
	100	1780	460		120		60		1.15				
	CONSTANT HP RPM		@	HZ	CODE	F							
	TYPE	P	INSUL.CLASS		F	TORQUE		10:1_VT			DESIGN	B	
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	O.D.E. BRG.	50BC03JG30X			MOTOR WEIGHT				AMB		40		
	*15 MIN IN AIR ;SUB. IN												
SEWAGE / WATER ONLY													
P36G2701F													

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							SUM710004-4 - 100HP, 1770RPM, 3PH, 60HZ, 360TY, TENV, FOOTL						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			360TY			100			P			3/60			1780			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
120			CONT			40/F			1.00			B			F			SUB		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
491753			A36RC4058A00			---			---			.0743								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			INPUT KW			% POWER FACTOR			% EFFICIENCY		
NO LOAD			0			44.2			1800			3.09			8.77			0		
1/4			25.0			52.5			1796			21.9			52.4			85.2		
2/4			50.0			70.6			1791			41.1			73.1			90.8		
3/4			74.9			93.6			1787			60.6			81.2			92.3		
4/4			100			120			1782			80.7			84.5			92.5		
5/4			125			149			1776			101			85.2			92.1		
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			171			504			685					
PULL UP						720			133			391			609					
BREAKDOWN						1725			207			609			363					
FULL LOAD						1782			100			295			120					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA																				
						DRAWN BY: <u>Z. M. WOLFE</u>						AC MOTOR PERFORMANCE DATA			W02034-A-A001 DATE ISSUED 2/29/24					
						CHECKED BY: <u>T.S. WILLIAMS</u>														
						APPROVED BY: <u>Z.M. WOLFE</u>														
						DATE: <u>2/09/24</u>														

FRAME 360TY

RPM 1780

S.F. 1.00

ROTOR A36RC4058A00

HP 100

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 120

CODE LETTER F

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

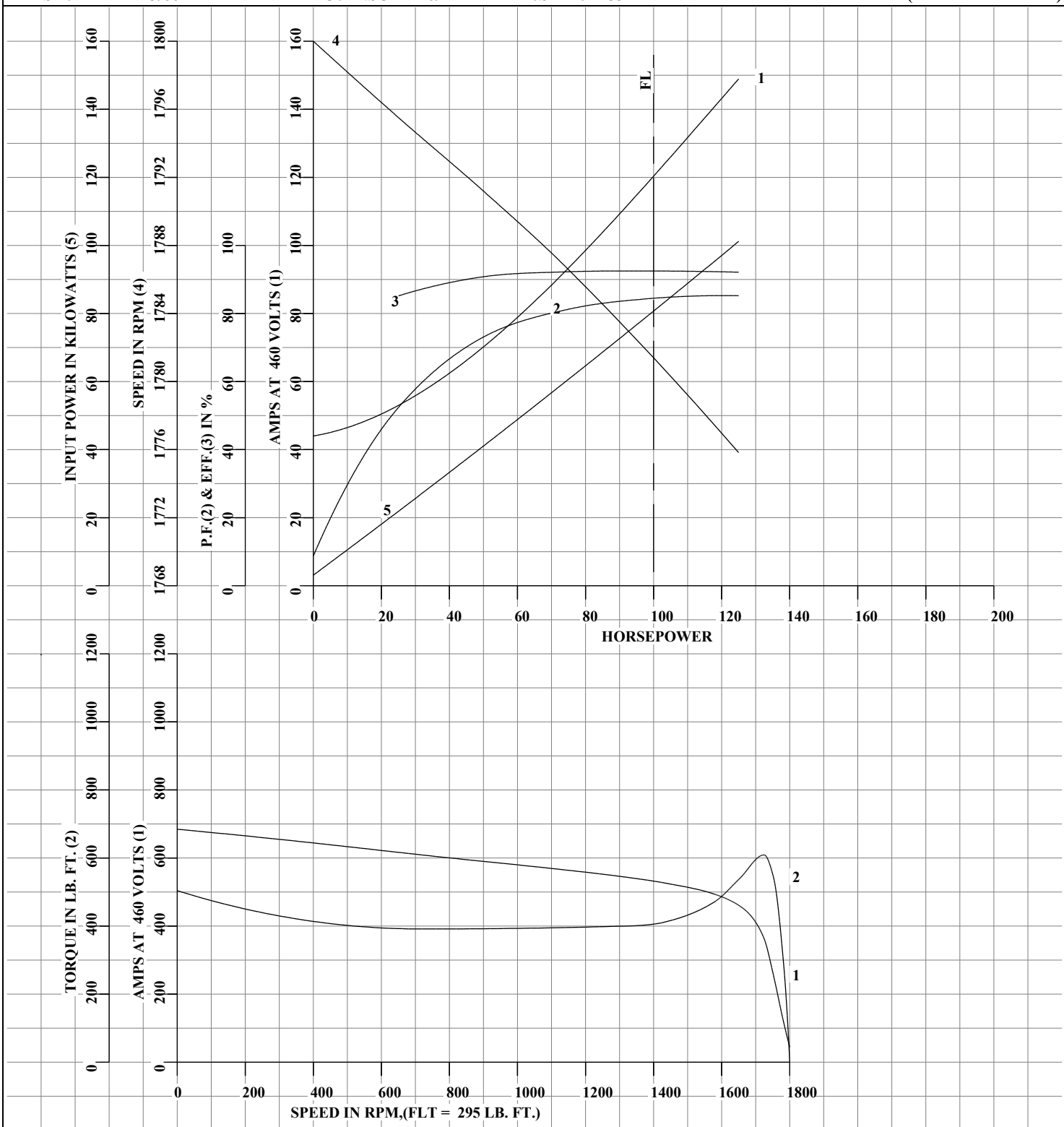
ENCLOSURE SUB

STATOR RES. @ 25°C .0743

AMB °C / INSUL 40/F

E/S 491753

OHMS (BETWEEN LINES)



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



DRAWN BY: Z. M. WOLFE
 CHECKED BY: T.S. WILLIAMS
 APPROVED BY: Z.M. WOLFE
 DATE: 2/09/24

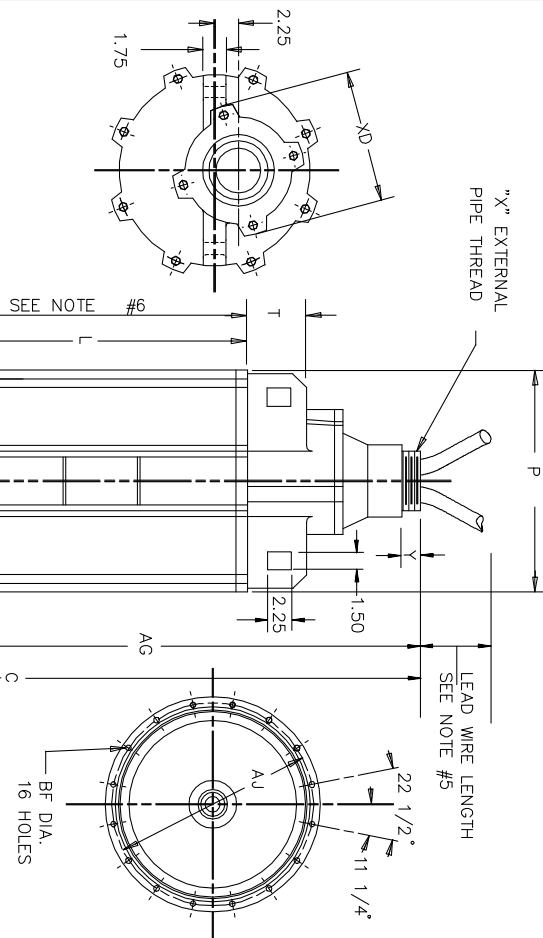
AC MOTOR
 PERFORMANCE
 DATA

W02034-A-A001

ISSUE DATE 2/29/24

ENCLOSURE: TOTALLY ENCLOSED SUBMERSIBLE
SQUIRREL-CAGE INDUCTION

FRAME 360TY THRU L360TY



DIMENSIONS ARE IN INCHES

[illegible][illegible]

- 1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
2) "BD" VARIES +.010.
3) "U" VARIES +.0000, -.0005.
4) "AR" VARIES +.000, -.002
5) LEAD WIRE LENGTH AS SPECIFIED ON SALES ORDER.
6) MINIMUM SUBMERGED DEPTH
- FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.

FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.

066930-060

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE NOTES, LOAD TO BUS		
REV. LTR: -	VERSION: 00	TDR: 000000921348
FILE: \RGG\00024\962	REVISED: 09:19:59 04/20/2015	BY: RGGWT
MTL: -		

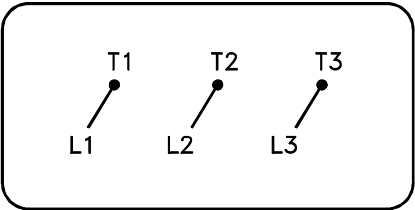
BALDOR

DIM SHT 360TY/L360TY SUBMERSIBLE

SH 1 of 1

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