

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

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	*15 MIN IN AIR ;SUB. IN						
	SEWAGE / WATER ONLY						
	P36G2701F						

Parts List

Part number	Description	Quantity
SA297283	SA P36G2701	1.000 ea
RA283479	RA P36G2701	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
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
000901001AA	LABEL WARNING	1.000 ea
034692002AE	HCSP 1/4" 304 S.S.	2.000 ea
004824015A	GREASE POLYREX EM	0.600 lb
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
032080003JB	HWHMS 10-24X3/8L PLTED	4.000 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

032018006BM	HHCS 5/16-18X3/4 PLTGRN.	1.000 ea
034036013AB	LCKW 5/16 EXT.TOOTH LCKW	1.000 ea
047024003AH	T/LUG AMP 34112	4.000 ea
032018016EG	HHCS 5/8-11X2 316S.S.	4.000 ea
032080003LB	HWHMS 1/4-20X3/8L PLTED	3.000 ea
415031017A	NUT W/WASHER 10-24 C.PLT	4.000 ea
415031017B	NUT W/WASHER1/4-20 C.P	3.000 ea
047024003R	LUG	3.000 ea
421900124FU	ORING	1.000 ea
609181014D	HEAT SHRINK TUBING 3/4	7.000 ea
004824007K	SPECIAL PAINT	0.100 ea
033775004EA	DRSCR #6-1/4 304 S.S.	10.000 ea
700385014AB	CCA #1 25' 320/360	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
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

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

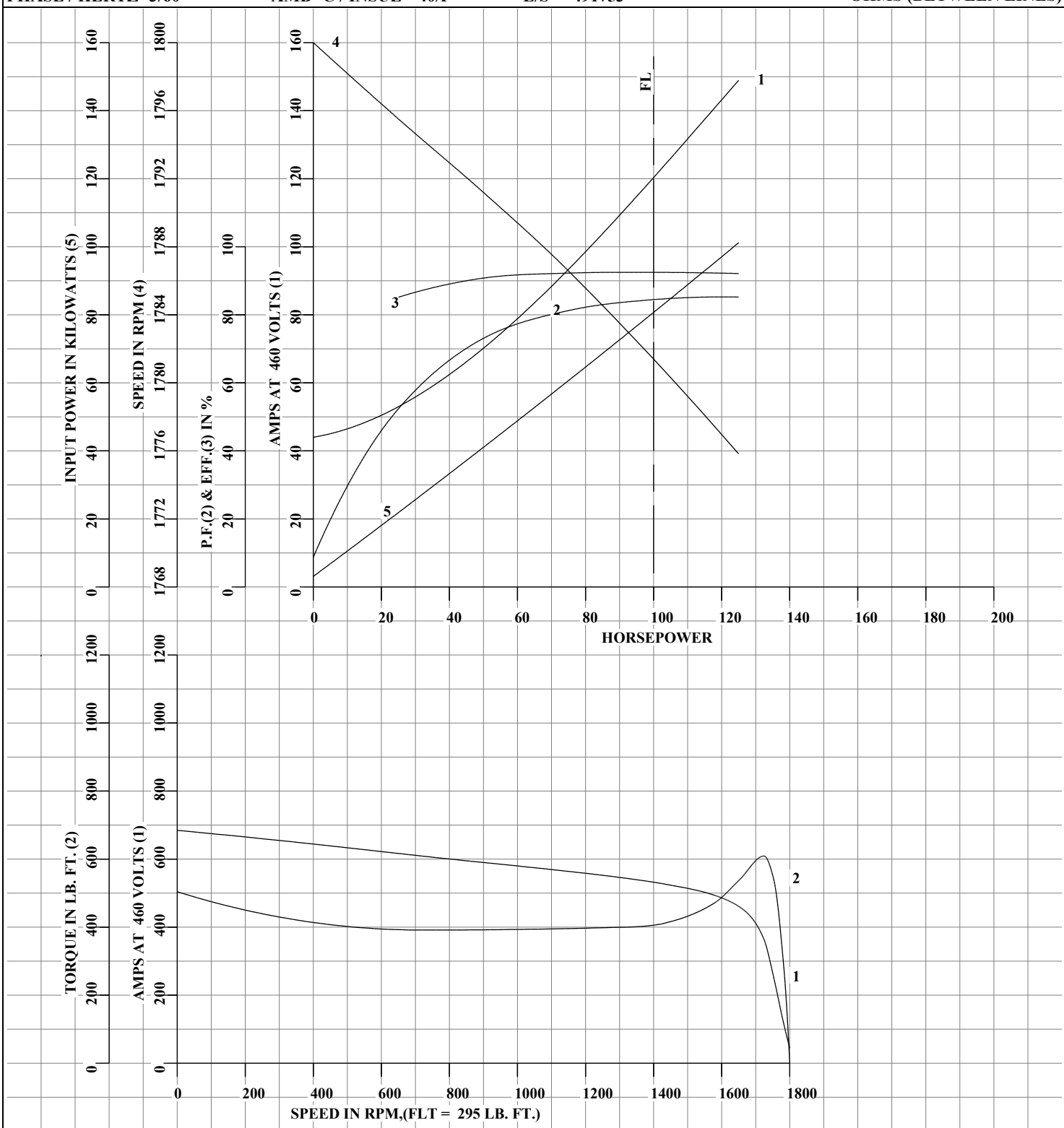
ENCLOSURE SUB

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.



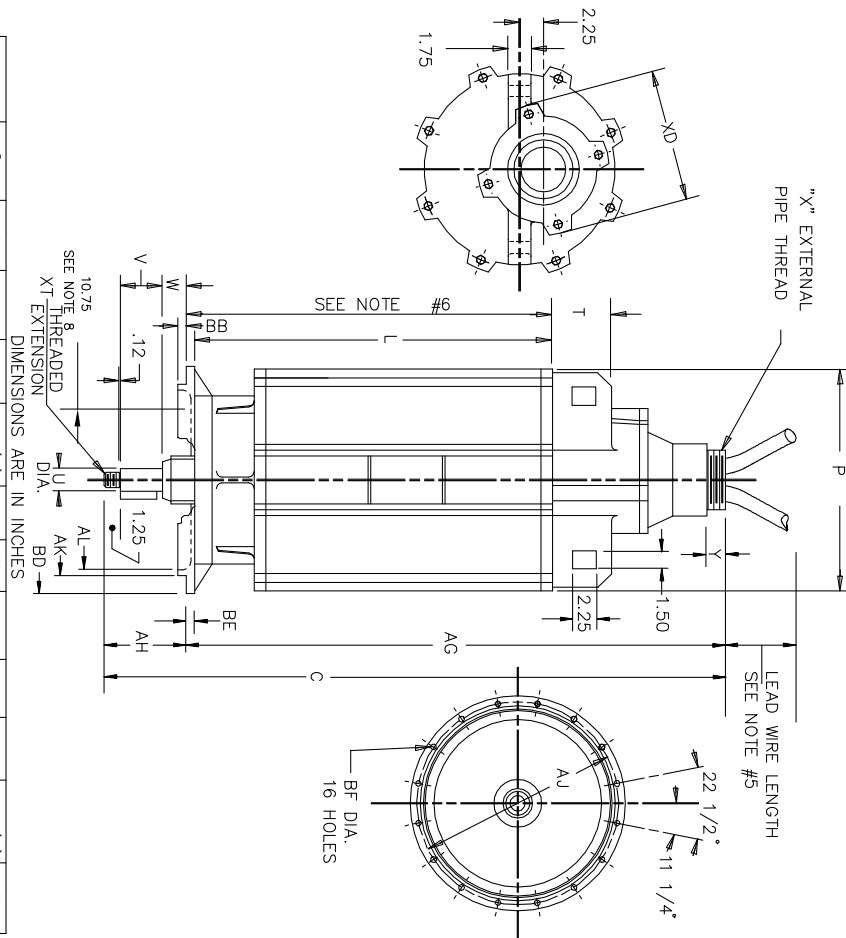
DRAWN BY: Z. M. WOLFE
 CHECKED BY: T.S. WILLIAMS
 APPROVED BY: Z.M. WOLFE
 DATE: 2/09/24

AC MOTOR
 PERFORMANCE
 DATA

W02034-A-A001

ISSUE DATE 2/29/24

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED SUBMERSIBLE
FRAME 360TY THRU L360TY

[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

BALDOR

DIM SHT 360TY/L360TY SUBMERSIBLE

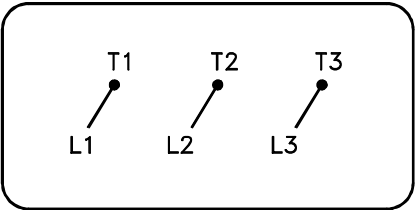
SH 1 of 1

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: -		

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