

ABB BALDOR RELIANCE III

Customer information packet

SUM710006-4

100HP, 1165RPM, 3PH, 60HZ, 360TY, TENV, FOOTL

Class - None

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	360TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 @ 60 HZ
Phase	3
Voltage @ Frequency	460 V @ 60 HZ
Agency Approvals	CCSA US
	UL
	CULUS
	CSA
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Current @ Voltage	122 A @ 460 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	15 MIN
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	IP68
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	W00971A A 001
Layout	066930-060
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	06
Leads	
Proprietary	False
Created date	04-09-2015

Overall Length	47.10 IN
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.499 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
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.	SUM710006-4	SPEC NO.	P36G2702			
SER.NO.			FRAME SIZE	X0360TY		
	HP	RPM	VOLTS	AMPS	HZ	S.F.
	100	1165	460	122.	6-60	1.00
	100	1165	460	122.	60	1.15
CONSTANT HP RPM		@	HZ	CODE	G	
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					
	P36G2702G					

000613007MS

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	*15 MIN IN AIR ;SUB. IN					
	SEWAGE / WATER ONLY					
	P36G2702G					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	360TY	100	P	3/60	1165	230
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
244	*	40/F	1.15	B	G	SUB
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418141-70-AE	---	---	.0219		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFI- CIENCY
NO LOAD	0	74.9	1200	2.20	7.38	0
1/4	25.1	95.8	1192	21.2	55.5	88.2
2/4	50.0	134	1184	40.7	76.0	91.7
3/4	75.0	185	1175	60.8	82.4	92.0
4/4	100	244	1166	81.8	84.2	91.2
5/4	125	307	1155	104	84.7	89.9
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	162	731	1406	
PULL UP		240	145	655	1376	
BREAKDOWN		1063	254	1143	808	
FULL LOAD		1166	100	451	244	
AMPERES SHOWN FOR 230. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: CALCULATED DATA *15 MIN IN AIR						
		DR. BY P.B. GREENE		A-C MOTOR PERFORMANCE DATA W00971-A-A001 ISSUE DATE 01/29/01		
		CK. BY W.L. SMITH				
		APP. BY W.L. SMITH				
		DATE 01/29/01				

REL S.O.

RPM 1165

S.F. 1.15

ROTOR 418141-70-AE

FRAME 360TY

VOLTS 230

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 100

AMPS 244

CODE LETTER G

TEST DATE ---

TYPE P

DUTY *

ENCLOSURE SUB

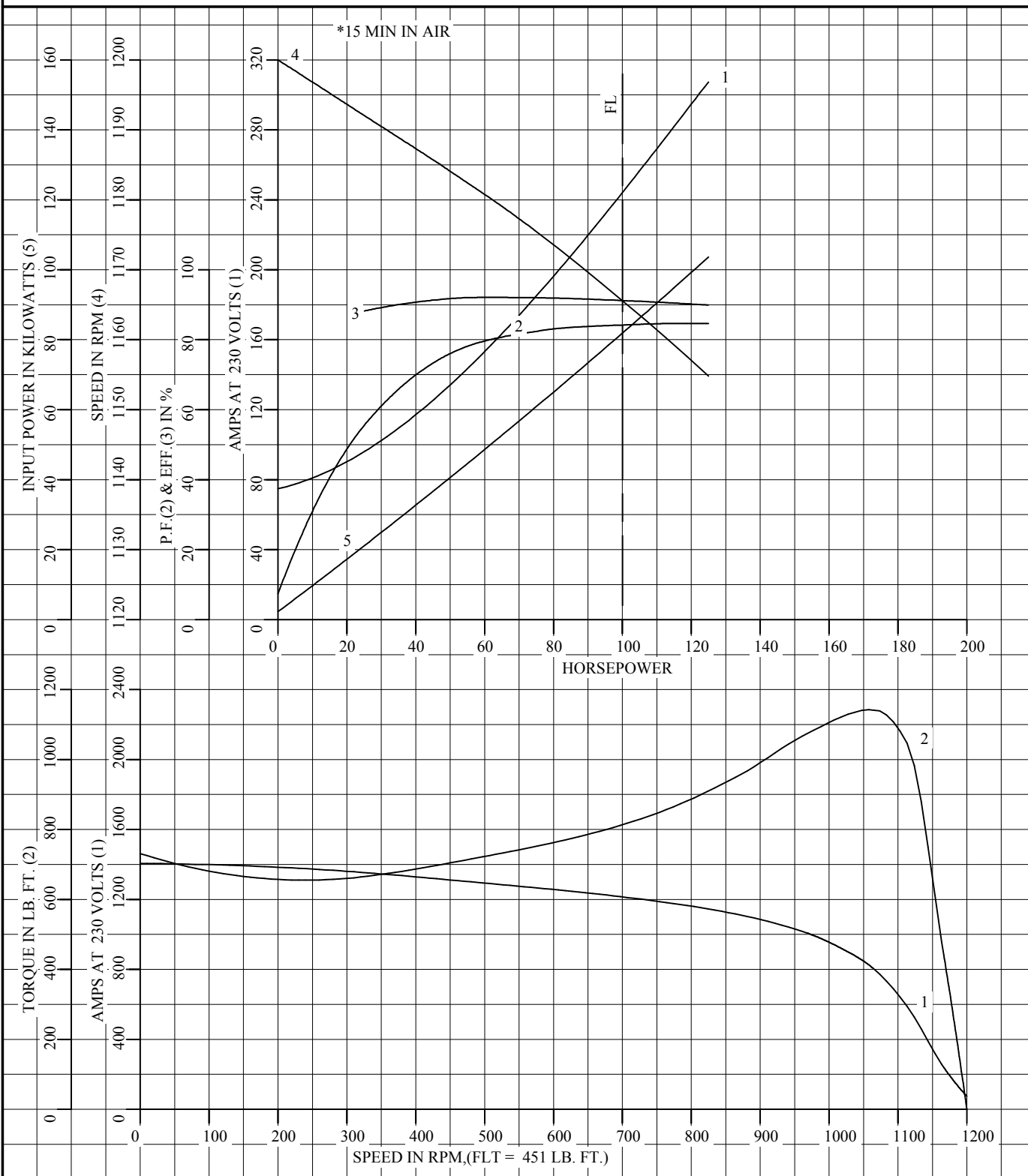
STATOR RES. @ 25 °C .0219

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY P.B. GREENE
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 01/29/01

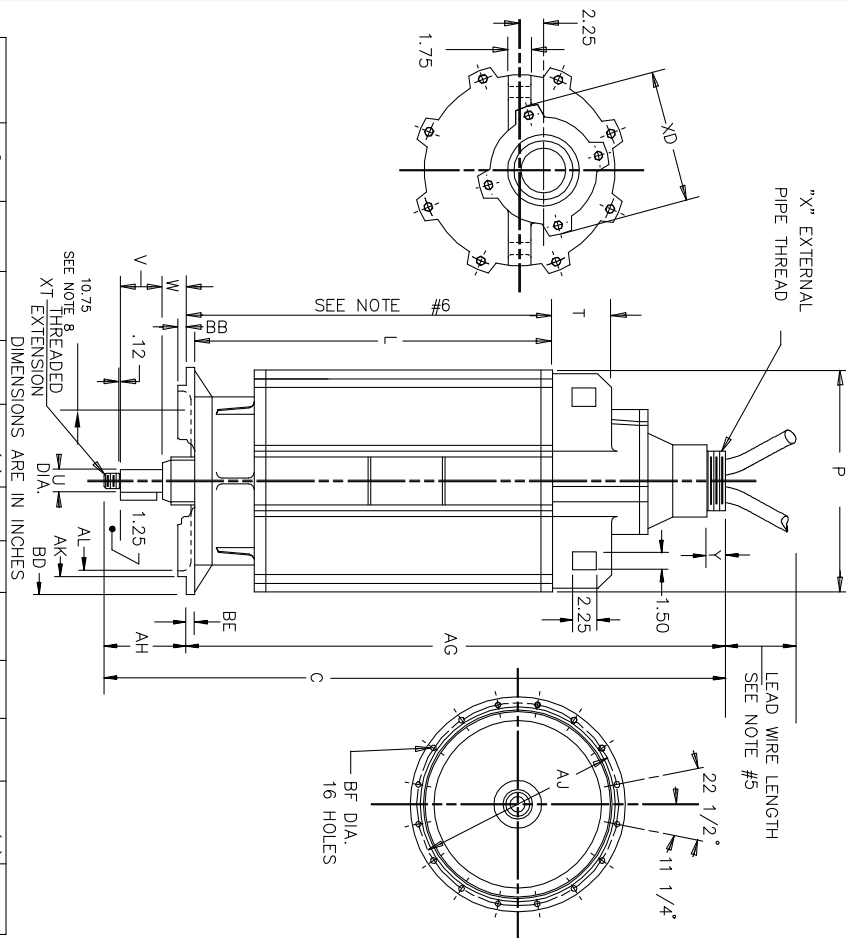
**A-C MOTOR
PERFORMANCE
CURVES**

W00971-A-A001

ISSUE DATE 01/29/01

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

066930-060



	C	L	P	T	U (3)	V	W	AG	AH	AJ	AK (4)	AL
FRAME												
360TY	47.1	31.25	18.38	4.25	2.4997	3.19	2.12	43.25	6.56	18.75	17.500	15.25
L360TY	49.1	33.25	18.38	4.25	2.4997	3.19	2.12	45.25	6.56	18.75	17.500	15.25

[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 ROUNDOFF 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: -		

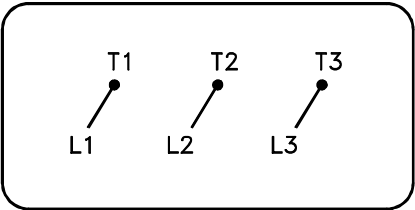
BALDOR

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