

ABB BALDOR RELIANCE III

Customer information packet

C18G2702

2HP, 1720RPM, 1PH, 60HZ, 180TY, TEXP, V1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPNV
Frame	180TY
Frame Material	Iron
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	CS
Output @ Frequency	2.000 @ 60 HZ
Phase	1
Voltage @ Frequency	230 V @ 60 HZ 115 V @ 60 HZ
Agency Approvals	UL CSA CCSA US
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Current @ Voltage	14.4 A @ 230 V 28.8 A @ 115 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	15 MIN
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	V1
Number of Poles	4
Overall Length	28.00 IN
Product Family	Other
Pulley End Bearing Type	Ball

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A00007J AL010
Layout	066930-020
Eff. date	03-08-2024
CD Diagram	
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Pulley Face Code	P-Base
Service Factor	1.15
Shaft Rotation	Fixed Standard
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

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

000613007MN

CAT NO			SPEC NO.		C18G2702					
HP	2	AMPS	28.8/14.4		VOLTS		115/230		DESIGN	-
FRAME SIZE	X0180TY		RPM	1720	HZ	60	AMB	40	SF	1.15
D.E. BRG.	50BC02JPP30A			PH	1	DUTY	15MIN		INSUL	F
O.D.E. BRG.	25BC02JPG30A			TYPE	CS	ENCL	TENV		CODE	K
	POWER FACTOR					NEMA-NOM-EFF				
	MAX CORR KVAR					GUARANTEED EFFICIENCY				
	NEMA NOM/CSA QUOTED EFF @					100% LOAD				
SER.NO.					MOTOR WEIGHT			LBS.		
	IP68									
	*15 MIN IN AIR ;SUB. IN									
	SEWAGE / WATER ONLY ONLY;									

000613007MR

CAT NO			SPEC NO.		C18G2702					
HP	2	AMPS	28.8/14.4		VOLTS		115/230		DESIGN	-
FRAME SIZE	X0180TY		RPM	1720	HZ	60	AMB	40	SF	1.15
D.E. BRG.	50BC02JPP30A			PH	1	DUTY	15MIN		INSUL	F
O.D.E. BRG.	25BC02JPG30A			TYPE	CS	ENCL	TENV		CODE	K
	POWER FACTOR							NEMA-NOM-EFF		
	MAX CORR KVAR							GUARANTEED EFFICIENCY		
	NEMA NOM/CSA QUOTED EFF @					100% LOAD				
SER.NO.					MOTOR WEIGHT			LBS.		
	IP68									
	*15 MIN IN AIR ;SUB. IN									
	SEWAGE / WATER ONLY ONLY;									

000692000MB	
FINAL CONN AT 230V CW	
ROTATION	
C18G2702L	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
0	182T	2	CS	1/60	1720	115/230			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
28.8/14.4	*	40/F	1.15	-	K	SUB			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
781002	418424-50BE	-	-	.86/3.9					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFI- CIENCY			
NO LOAD	0	8.4	1800	.700	36.2	0			
1/4	.53	8.7	1770	1.13	56.5	35.0			
2/4	1.03	10.2	1754	1.54	65.6	50.0			
3/4	1.52	12.1	1735	1.98	71.1	57.2			
4/4	2.00	14.4	1720	2.45	73.9	60.9			
5/4	2.46	16.9	1691	2.95	75.9	62.2			
SPEED TORQUE									
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES					
LOCKED ROTOR	0	306	18.7	69.0					
PULL UP	1300	196	12.0	46.0					
BREAKDOWN	1500	219	13.4	37.0					
FULL LOAD	1720	100	6.11	14.0					
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 CONT IN LIQUID									
		DR. BY <u>D. M. BYRD</u> CK. BY <u>Z. M. WOLFE</u> APP. BY <u>D. M. BYRD</u> DATE <u>07/02/98</u>		A-C MOTOR PERFORMANCE A00007-JAL010 DATA ISSUE DATE 07/22/09					

FRAME 182T

VOLTS 115/230

NEMA DESIGN -

TEST S.O. CALCULATED DATA

HP 2

AMPS 28.8/14.4

CODE LETTER K

TEST DATE -

TYPE CS

DUTY *

ENCLOSURE SUB

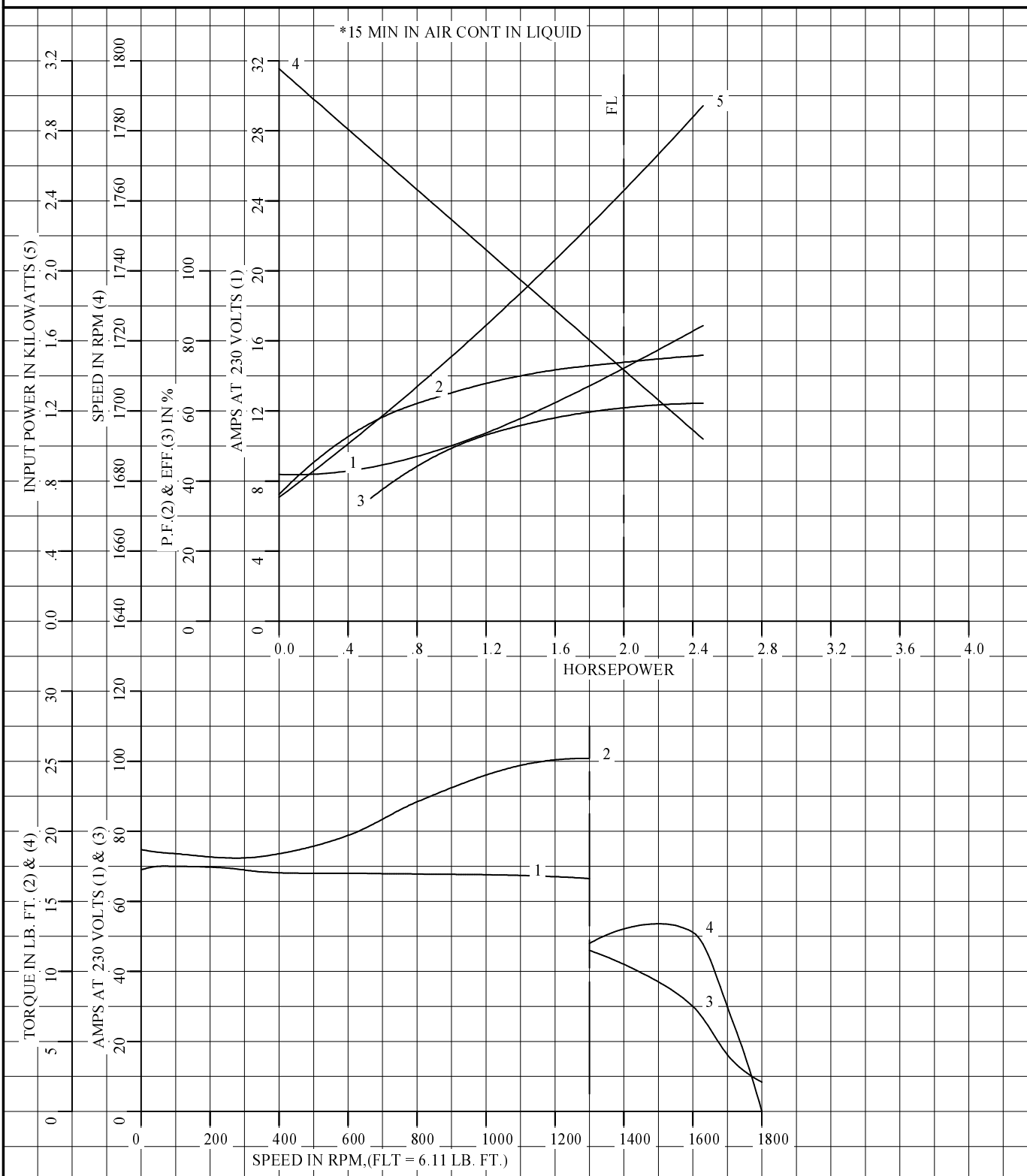
STATOR RES. @ 25 °C .86/3.9

PHASE/HERTZ 1/60

AMB °C/INSUL 40/F

E/S 781002

OHMS (BETWEEN LINES)



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

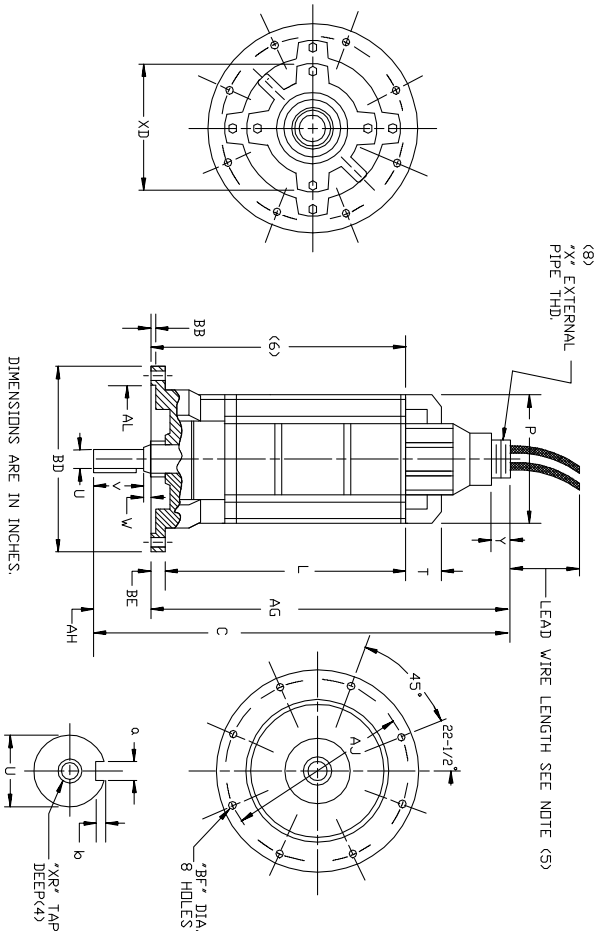


DR. BY D. M. BYRD
CK. BY Z. M. WOLFE
APP. BY D. M. BYRD
DATE 07/02/98

**A-C MOTOR
PERFORMANCE
CURVES**

A00007-JAL010
ISSUE DATE 07/22/09

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED
SUBMERSIBLE
ONE SIZE SMALLER FLANGE AND SHAFT
FRAMES 180TY THRU 210TY



DIMENSIONS ARE IN INCHES.

FRAME	C	L	P	T	U(3)	V	W	AG	AH	AJ	AL(7)
180TY	25.94	16.50	9.62	2.25	8.750	1.25	.31	24.38	1.56	10.00	9.125
210TY	32.41	21.12	11.50	2.25	12.500	2.00	.28	30.12	2.28	11.50	10.625

FRAME	BNG(2)	BE	BF	XR(4)	X	Y	XD	BB	B	KEYWAY	WEIGHT
180TY	11.062	.75	.44	3/8-16	2-1/2-8	1.25	6.75	.12	.187	.09	200
210TY	12.375	.75	.56	1/2-13	2-1/2-8	1.25	7.75	.12	.250	.12	315

- (1) SPECIAL DIMENSIONS ON THIS LINE.
- (2) *BD* VARIES ± .010
- (3) *U* VARIES +.000, -.0005
- (4) TAP DEPTH ON 180TY THRU 210TY IS 1.38
- (5) LEAD WIRE LENGTH AS SPECIFIED ON CERTIFICATION
- (6) MINIMUM SUBMERGED DEPTH.
- (7) *AL* VARIES +.004, -.000
- FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
- PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.
- (8) 3" - 8 PIPE THREAD SUPPLIED WITH CABLE SIZES NO. 4 AND LARGER.

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

REV. DESC: LOAD TO BUS	VERSION: 00	TDR: 000000925374
REV. LTR: -	FILE: \RGG\00025\093	BY: RGGWT
MTL: -	REVISED: 08:11:59 05/14/2015	

DIM SHT,180TY THRU 210TY,SUBMERSIBLE,1 SIZE SMALLER FLG/SH

SH 1 of 1