

ABB BALDOR RELIANCE III

Customer information packet

C21G2702

5HP, 1730RPM, 1PH, 60HZ, 210TY, XPNV, 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
Output @ Frequency	5.000 @ 60 HZ
Phase	1
Voltage @ Frequency	230 V @ 60 HZ
Agency Approvals	CCSA US
	CSA
	UL
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Current @ Voltage	30.0 A @ 230 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	H
Lifting Lugs	Vertical Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	V1
Number of Poles	4
Overall Length	31.69 IN
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Service Factor	1.15
Shaft Rotation	Reversible

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A00020C J 005
Layout	066930-018
Eff. date	03-19-2025
CD Diagram	
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MN										
SPEC NO.	C21G2702									
HP	5	AMPS	30.0	VOLTS	230	DESIGN	L			
FRAME SIZE	X0210TY	RPM	1730	HZ	60	AMB	40	SF	1.15	
D.E. BRG.	60BC02JPP30A	PH	1	DUTY	15MIN	INSUL	F			
O.D.E. BRG.	30BC02JPG30A	TYPE	CS	ENCL	TENV	CODE	H			
		POWER FACTOR		NEMA-NOM-EFF						
		MAX CORR KVAR		GUARANTEED EFFICIENCY						
		NEMA NOM/CSA QUOTED EFF @		100% LOAD						
SER.NO.		MOTOR WEIGHT		LBS.						
	SUB. IN WATER ONLY; *15 MIN									
	IN AIR MAX DEPTH- REFER TO									
	INSTR MANUAL CW ROT									

000613007MR

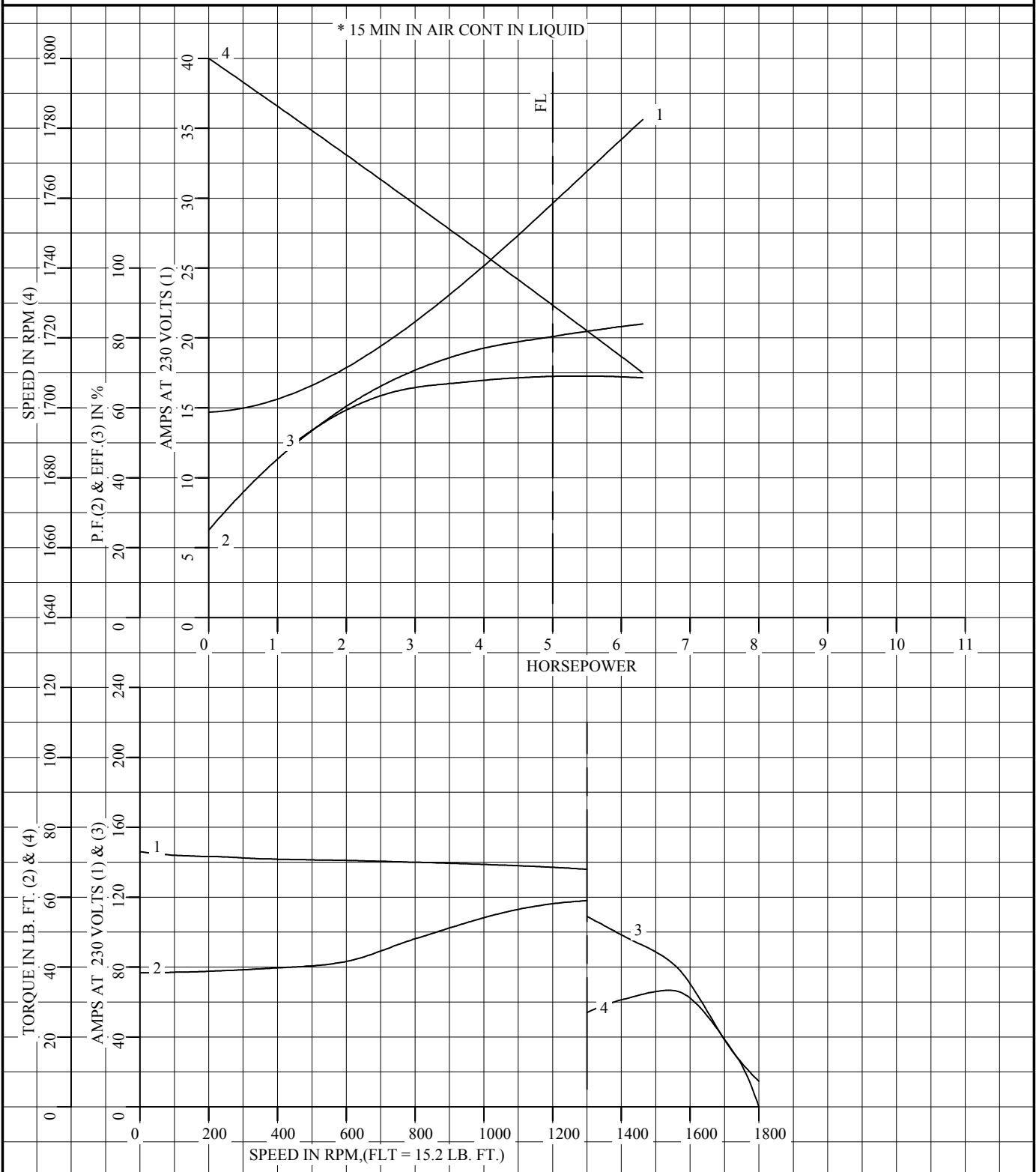
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SER.NO.		MOTOR WEIGHT				LBS.				
	SUB. IN WATER ONLY; *15 MIN									
	IN AIR MAX DEPTH- REFER TO									
	INSTR MANUAL CW ROT									

000692000MB		
CONTROL BOX 701455-23C		
MODEL # C21G2702		
5 HP ; 1730 RPM ; 230 VOLTS;		
30.0 AMPS ; 60 HZ ; 1 PHASE;		
W/D 413450-14		
FINAL CONNECT AT 230V		
DO NOT MOUNT		
IN HAZARDOUS		

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

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
-	X210TY	5.0	CS	1/60	1730	230
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
30.0	*	40/F	1.15	-	H	SUB
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
784007	413441-30-SE	3145-23894	3/20/69	.352/1.81		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	14.6	1800	25.0	0	
1/4	1.32	16.5	1782	50.7	51.1	
2/4	2.57	19.5	1764	66.9	63.9	
3/4	3.80	24.0	1747	76.1	67.5	
4/4	5.00	30.0	1730	80.4	69.0	
5/4	6.31	35.5	1710	84.0	68.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	252	38.3	146	
PULL UP		1300	178	27.0	109	
BREAKDOWN		1550	219	33.3	82.0	
FULL LOAD		1730	100	15.2	30.0	
AMPERES SHOWN FOR 230. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA * 15 MIN IN AIR CONT IN LIQUID						
		DR. BY	Z.M.WOLFE	A-C MOTOR PERFORMANCE A00020-C-J005 DATA ISSUE DATE 05/12/82 Page 8 of 10		
		CK. BY	T.S.WILLIAMS			
		APP. BY	T.S.WILLIAMS			
		DATE	05/12/82			

REL S.O. -	RPM 1730	S.F. 1.15	ROTOR 413441-30-SE
FRAME X210TY	VOLTS 230	NEMA DESIGN -	TEST S.O. TYPICAL DATA
HP 5.0	AMPS 30.0	CODE LETTER H	TEST DATE 3/20/69
TYPE CS	DUTY *	ENCLOSURE SUB	STATOR RES. @ 25 °C .352/1.81
PHASE/HERTZ 1/60	AMB °C/INSUL 40/F	E/S 784007	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 Z.M.WOLFE
CK. BY T.S.WILLIAMS
APP. BY T.S.WILLIAMS
DATE 05/12/82

**A-C MOTOR
PERFORMANCE
CURVES**

A00020-C-J005

ISSUE DATE 05/12/82

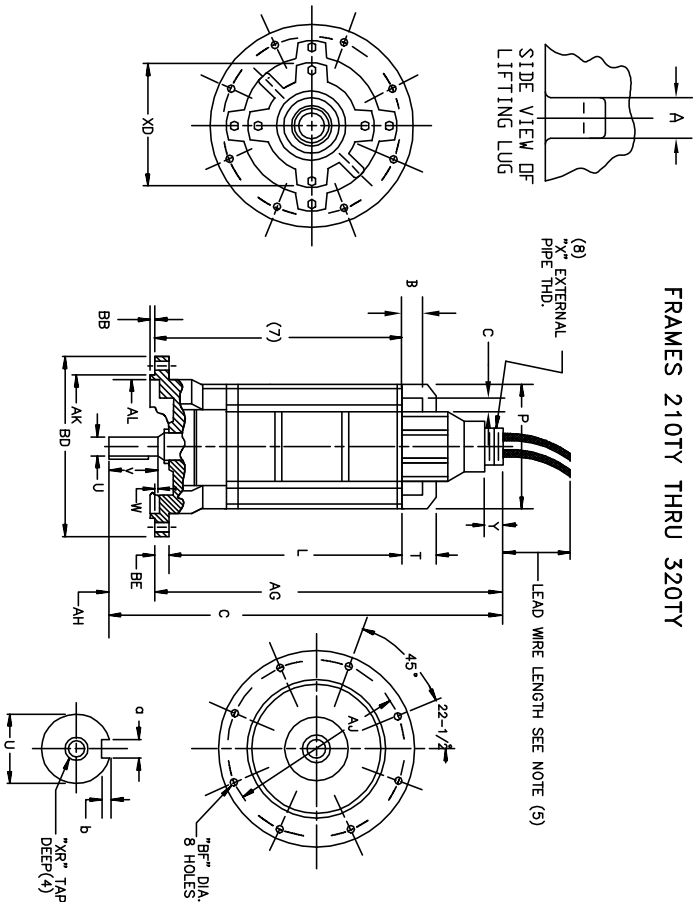
Page 9 of 10

066930-018

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

FRAMES 210TY THRU 320TY



DIMENSIONS ARE IN INCHES. SEE SHEET 2 FOR MILLIMETERS.														
FRAME	C	L	P	T	U(3)	V	W	AG	AH	AJ	AK (6)	AL	LEADING DIMENSIONS	WEIGHT
210TY	31.69	21.12	11.50	2.25	1.4375	2.00	.44	30.12	1.56	14.12	13.125	12.00	.89	1.50
250TY	37.34	23.63	12.75	3.50	1.750	3.31	.28	34.31	3.03	16.00	14.00	.75	2.25	2.12
320TY	43.12	24.69	15.75	4.25	2.500	3.19	2.12	37.81	3.31	17.25	16.000	15.25	1.25	2.25
(1)														1.50

FRAME	BD(2)	BE	BF	XR(4)	X (6)	Y	XD	BB	g	b	LENGTH (LB)(10)	WEIGHT
210TY	15.250	.75	.56	5/8-11	2-1/2-8	1.25	7.75	.25	.375	1.19	1.12	315
250TY	17.000	.89	.69	5/8-11	2-1/2-8	1.25	7.75	.25	.375	1.19	2.25	475
320TY	18.750	.89	.69	3/4-10	3-8	1.25	10.88	.25	.500	1.25	3.00	1150
(1)												

- (1) SPECIAL DIMENSIONS ON THIS LINE.
- (2) "BD" VARIES .0010.
- (3) "U" VARIES — UP TO 1.625 DIA. +.0000, —.0005
1.625 DIA. AND LARGER +.000, —.001.
- (4) TAP DEPTH ON 210TY THRU 250TY IS 1.38"
TAP DEPTH ON 320TY IS 1.50"
- (5) LEAD WIRE LENGTH AS SPECIFIED ON CERTIFICATION
- (6) "AK" VARIES +.000, —.002
- (7) MINIMUM SUBMERGED DEPTH.
- FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.
SIZES NO. 4 AND LARGER.
- (8) 3" — 8 PIPE THREAD SUPPLIED WITH CABLE
- (9) DIMENSIONS IN INCHES
- (10) MOTOR WEIGHT VARIES +/- 15% WEIGHT DOES NOT INCLUDE THE WEIGHT OF THE CABLES

FRAME- _____ TYPE- _____ CERTIFIED FOR- _____
ORDER- _____ ITEM- _____ HP- _____ RPM- _____ PH- _____ HZ- _____ VOLTS- _____
RELIANCE SALES ORDER- _____ APPROVED BY- _____ DATE _____

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

REV. DESC: CHANGED 210 U DIMENSION FROM 1.438 TO 1.4375

REV. LTR: F VERSION: 06 TDR: 000001168191

FILE: \RGG\00006\320 REVISED: 11:54:41 05/14/2021 BY: RGGJAO

MTL: —

BALDOR - RELIANCE®

DIMENSION SHEET DUTY MASTER A/C MOTORS

SH 1 of 2

066930-018