

ABB BALDOR RELIANCE III

Customer information packet

C21G2701

3HP, 1160RPM, 1PH, 60HZ, 210TY, TEXP, V1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPNV
Frame	210TY
Frame Material	Iron
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Output @ Frequency	3.000 @ 60 HZ
Phase	1
Voltage @ Frequency	230 V @ 60 HZ 115 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	21.0 A @ 230 V 42.0 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	J
Lifting Lugs	Vertical Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	V1
Number of Poles	6
Overall Length	32.41 IN
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A00011B E 007
Layout	066930-021
Eff. date	03-08-2024
CD Diagram	
Poles	06
Leads	
Proprietary	False
Created date	04-09-2015

Service Factor	1.15
Shaft Rotation	Reversible
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	

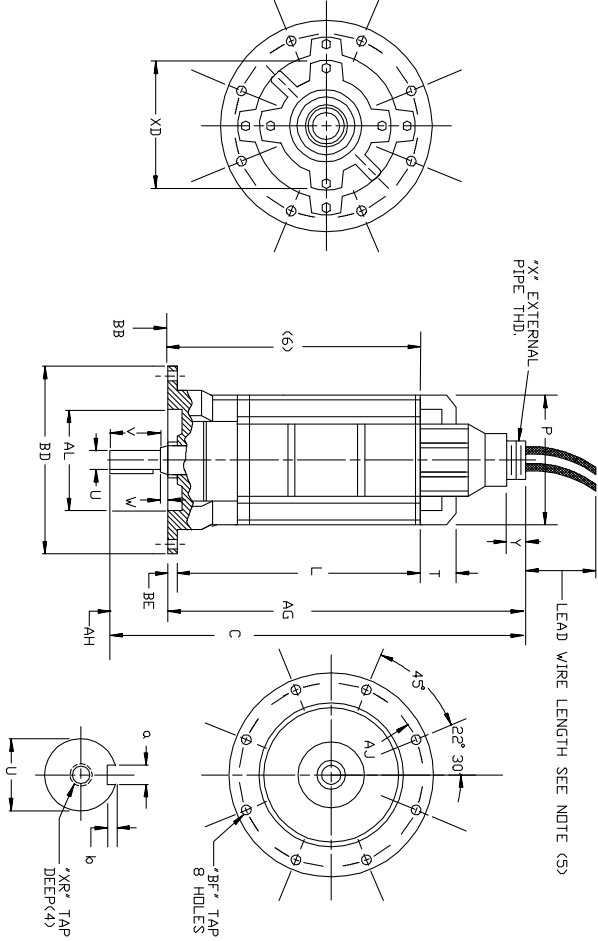
000613007MR

CAT NO		SPEC NO.	C21G2701						
HP	3	AMPS	42.0/21.0	VOLTS	115/230	DESIGN	L		
FRAME SIZE	X0210TY	RPM	1160	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	J		
		POWER FACTOR				NEMA-NOM-EFF			
		MAX CORR KVAR				GUARANTEED EFFICIENCY			
		NEMA NOM/CSA QUOTED EFF @			100% LOAD				
SER.NO.		MOTOR WEIGHT			LBS.				
	*15 MIN IN AIR ;SUB. IN								
	SEWAGE / WATER ONLY ONLY;								
	FINAL CONN@230V CW ROT								

C21G2701J

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
0	X215TY	3.0	CS	1/60	1160	115/230			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
42.0/21.0	*	40/F	1.15	-	J	SUB			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @ 25 °C OHMS (BETWEEN LINES)					
784008	413441-30-KE	-	-	.467/2.97					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	12.5	1200	24.8	0				
1/4	.66	13.2	1189	39.7	41.0				
2/4	1.42	15.0	1181	54.1	56.7				
3/4	2.18	17.6	1172	63.7	62.9				
4/4	3.00	21.0	1160	69.1	65.6				
5/4	3.64	25.0	1149	72.7	65.0				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	166	22.5	86.0				
PULL UP		925	169	23.0	79.0				
BREAKDOWN		1050	217	29.5	48.0				
FULL LOAD		1160	100	13.6	21.0				
AMPERES SHOWN FOR 230. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA									
		DR. BY <u>P. B. GREENE</u>		A-C MOTOR PERFORMANCE A00011-B-E007 DATA					
		CK. BY <u>K. W. KANOUFF</u>							
		APP. BY <u>K. W. KANOUFF</u>							
		DATE <u>10/17/97</u>							
				ISSUE DATE 10/17/97					

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED
SUBMERSIBLE
FRAME 210TY



DIMENSIONS ARE IN INCHES SEE SHEET 2 FOR MILLIMETERS

FRAME	C	L	P	T	UC2	V	W	AG	AH	AJ	AL(7)
210TY	32.41	21.12	11.50	2.25	12.50	2.00	28	30.12	22.8	11.50	10.625

FRAME	BU(2)	BE	BF	KR(4)	LEAD CONNECTION			BE KEYWAY	WEIGHT
210TY	12.38	.75	.56	1/2-13	X	Y	XD	BB	LBS.
(1)					2-1/2-8	1.25	7.75	.12	315

- (1) SPECIAL DIMENSIONS ON THIS LINE.
- (2) "BD" VARIES ± .010
- (3) "U" VARIES +.0000, -.0005
- (4) TAP DEPTH ON 210TY IS 1.38
- (5) LEAD WIRE LENGTH AS SPECIFIED ON SALES ORDER
- (6) MINIMUM SUBMERGED DEPTH.
- (7) "AL" VARIES +.004, -.000.
- FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.

120-036990

066930-021

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: -	REvised: 10: 39: 07 05/14/2015	BY: RGGWT
FILE: \RGG\00025\103		
MTL: -		

BALDOR

DIM SHT, 210TY, SUBMERSIBLE

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