

ABB BALDOR RELIANCE III

Customer information packet

SUL50504

5HP, 1730RPM, 1PH, 60HZ, 210TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	210TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	1
Agency Approvals	CCSA US
	CSA
	UL
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	4
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.250 IN

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A00020C J 005
Layout	066930-702
Eff. date	12-17-2021
CD Diagram	
Poles	04
Leads	
Proprietary	False
Created date	11-19-2018

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

Nameplate

000613007MN										
CAT NO			SPEC NO.		S21-A000-0306					
HP	5	AMPS	30.0		VOLTS		230		DESIGN	L
FRAME SIZE	210TY		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			369	LBS.	
	*15 MIN IN AIR ;SUB. IN									
	SEWAGE / WATER ONLY MAXDEPTH									
	IN MANUAL									

000692000MB		
CONTROL BOX 701455-23C		
MODEL # S21-A000-0306		
5 HP ; 1730 RPM ; 230 VOLTS;		
30.0 AMPS ; 60 HZ ; 1 PHASE;		
W/D 414711-1B		
FINAL CONNECT AT 230V		
DO NOT MOUNT IN HAZARDOUS LOCATION		

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

000613007MR

CAT NO		SPEC NO.	S21-A000-0306						
HP	5	AMPS	30.0	VOLTS	230	DESIGN		L	
FRAME SIZE	210TY	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		369	LBS.				
	*15 MIN IN AIR ;SUB. IN								
	SEWAGE / WATER ONLY MAXDEPTH								
	IN MANUAL								

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

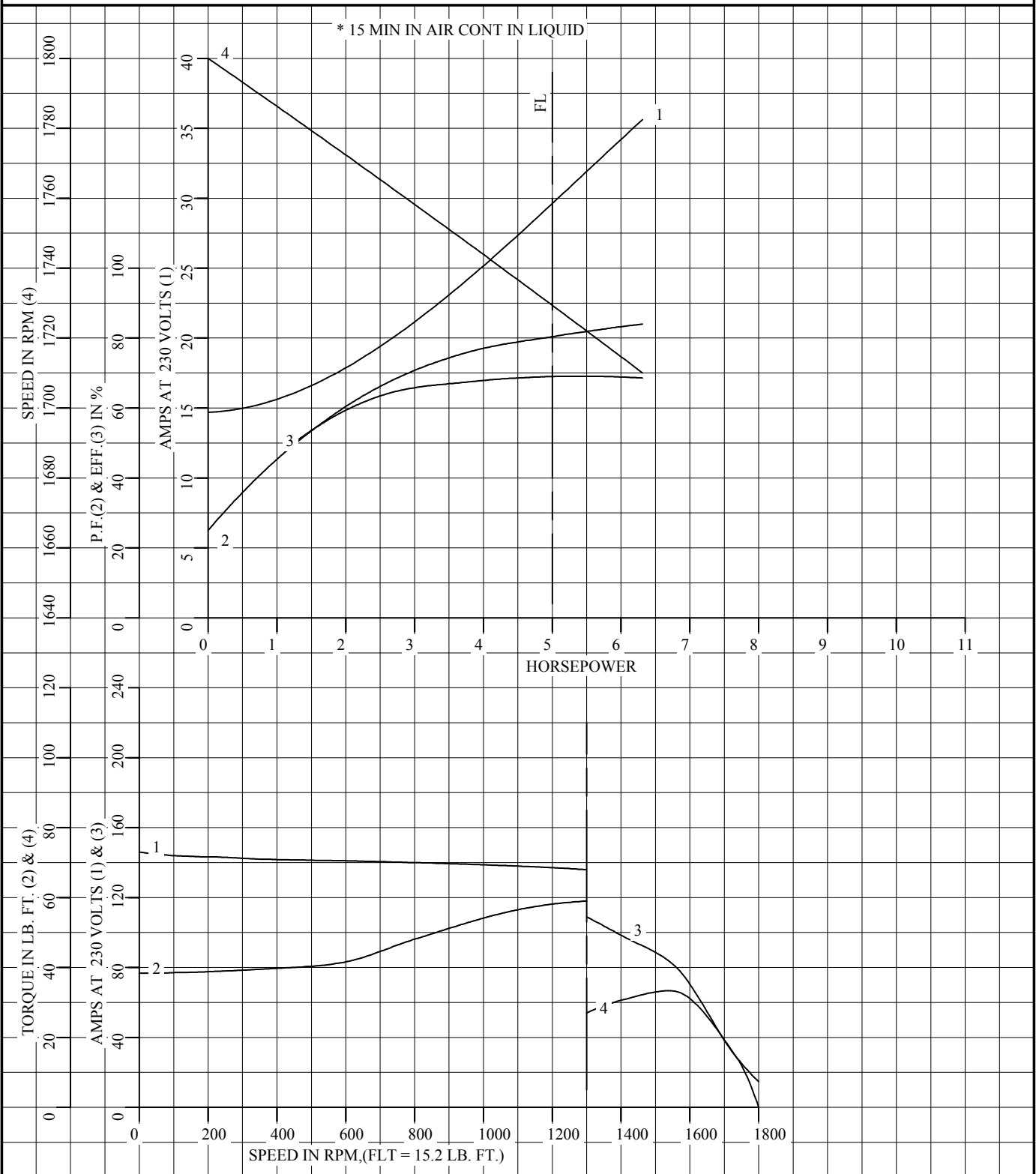
STATOR RES. @ 25 °C .352/1.81

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

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