ABB BALDOR RELIANCE

Customer information packet

SUL50156SM

1.5HP, 1160RPM, 1PH, 60HZ, 180TY, XPNV, V1
Class - CLI GP C,D
Division - Not Applicable

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Specifications

Enclosure	XPNV
Frame	180TY
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	J
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	0.875 IN

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A00094A A 002
Layout	066930-701
Eff. date	04-27-2022
CD Diagram	
Poles	06
Leads	
Proprietary	False
Created date	11-13-2018

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.**	S18-A000-0291								
HP	1.50	**AMPS**	11.7		**VOLTS**	230		**DESIGN**	L			
FRAME SIZE	180TY	**RPM**	1160	**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**	J			
			POWER FACTOR					**NEMA-NOM-EFF**				
			MAX CORR KVAR					**GUARANTEED EFFICIENCY**				
			NEMA NOM/CSA QUOTED EFF @					**100% LOAD**				
SER.NO.			**MOTOR WEIGHT**	256	**LBS.**							
	*15 MIN IN AIR ;SUB. IN											
	SEWAGE / WATER ONLY MAXDEPTH											
	IN MANUAL											

000692000MB
CONTROL BOX 701455-23J
MODEL # S18-A000-0291
1.5 HP ; 1160 RPM ; 230 VOLTS;
11.7 AMPS ; 60 HZ ; 1 PHASE;
W/D 41471-101A
FINAL CONNECT AT 230V
DO NOT MOUNT IN HAZARDOUS
LOCATION

000613007MR

CAT NO		**SPEC NO.**	S18-A000-0291								
HP	1.50	**AMPS**	11.7		**VOLTS**	230		**DESIGN**	L		
FRAME SIZE	180TY	**RPM**	1160	**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**	J		
		POWER FACTOR						**NEMA-NOM-EFF**			
		MAX CORR KVAR						**GUARANTEED EFFICIENCY**			
		NEMA NOM/CSA QUOTED EFF @						**100% LOAD**			
SER.NO.		**MOTOR WEIGHT**	256	**LBS.**							
	*15 MIN IN AIR ;SUB. IN										
	SEWAGE / WATER ONLY MAXDEPTH										
	IN MANUAL										

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
-	X180TY	1.5	CS	1/60	1160	230

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
11.7	*	40/F	1.15	-	J	SUB

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
782058	418424-54AE	-	-	1.192/3.022

PERFORMANCE

LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFI-CIENCY
NO LOAD	0	8.0	1200	.495	27.2	0
1/4	.38	8.6	1185	.792	39.6	35.3
2/4	.75	9.4	1177	1.10	51.1	50.8
3/4	1.12	10.8	1169	1.43	60.1	58.7
4/4	1.50	11.7	1160	1.78	66.8	62.9
5/4	1.88	14.8	1148	2.16	71.6	64.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	287	19.5	47.0
PULL UP	925	252	17.1	32.6
BREAKDOWN	1080	267	18.1	30.6
FULL LOAD	1160	100	6.79	11.7

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

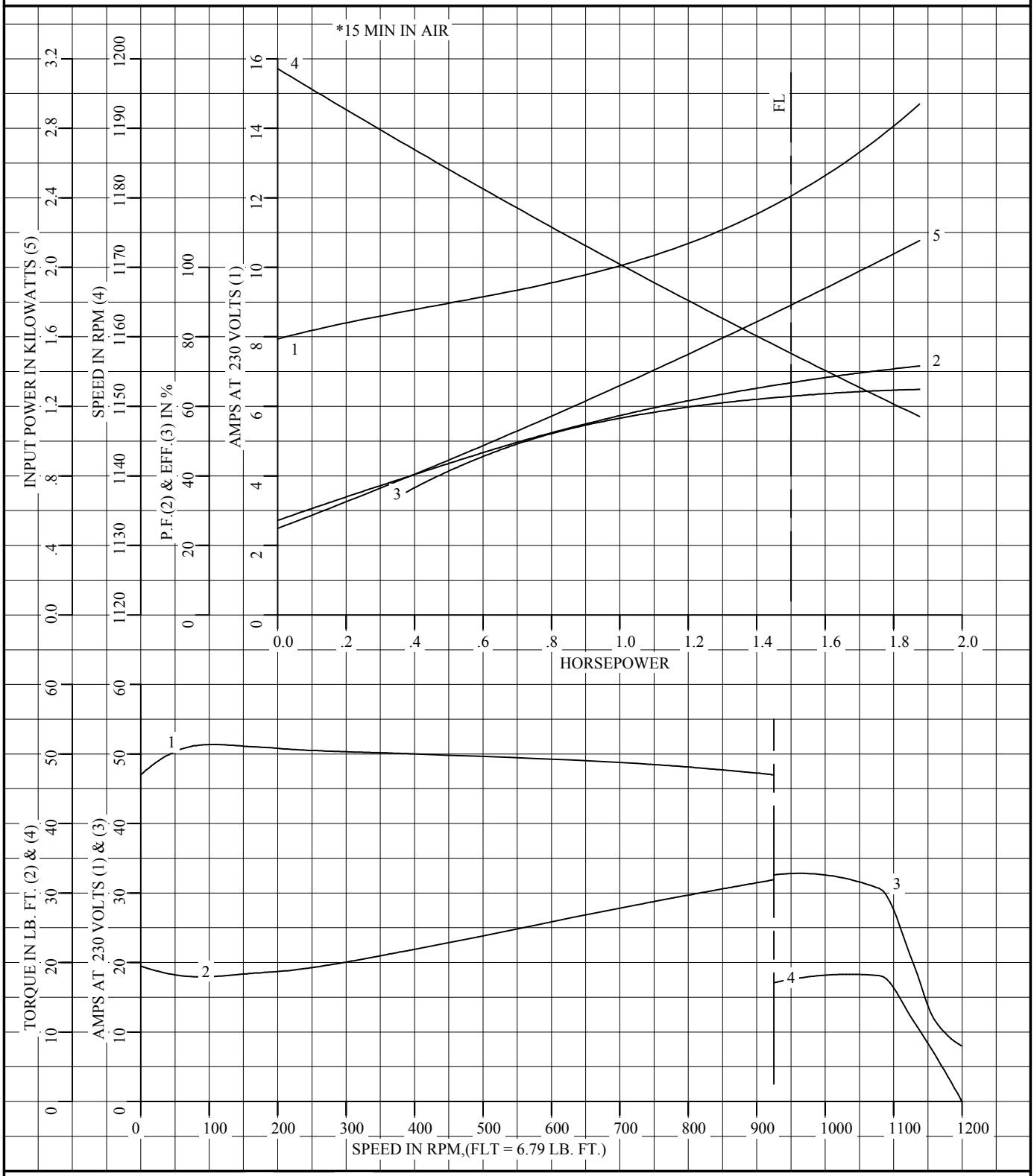
REMARKS: TYPICAL DATA
*15 MIN IN AIR

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY Z.M.WOLFE
CK. BY T.S.WILLIAMS
APP. BY Z.M.WOLFE
DATE 01/20/21

A-C MOTOR PERFORMANCE DATA A00094-A-A002
ISSUE DATE 01/20/21

REL S.O. –	RPM 1160	S.F. 1.15	ROTOR 418424-54AE
FRAME X180TY	VOLTS 230	NEMA DESIGN –	TEST S.O. TYPICAL DATA
HP 1.5	AMPS 11.7	CODE LETTER J	TEST DATE –
TYPE CS	DUTY *	ENCLOSURE SUB	STATOR RES.@ 25 °C 1.192/3.022
PHASE/HERTZ 1/60	AMB °C/INSUL 40/F	E/S 782058	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
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DATE	01/20/21

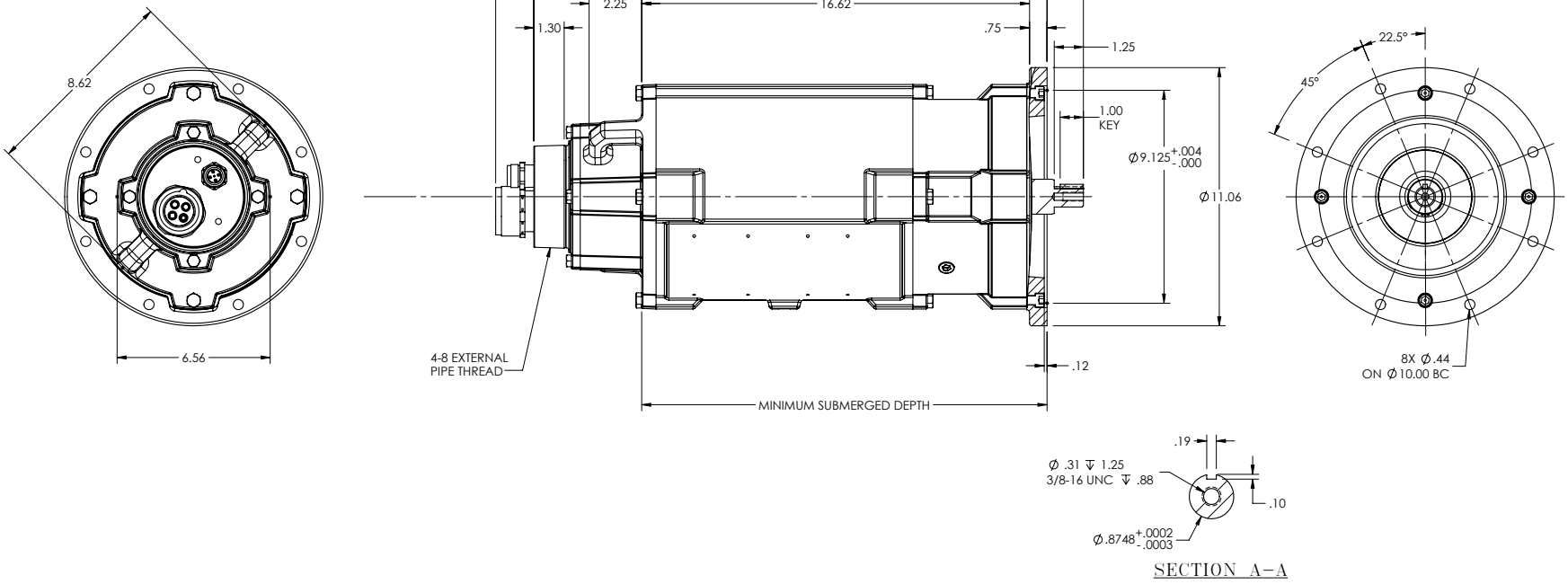
A-C MOTOR PERFORMANCE CURVES A00094-A-A002
ISSUE DATE 01/20/21

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED

SUBMERSIBLE
ONE SIZE SMALLER FLANGE AND SHAFT

066930-701



SECTION A–A

NOTES:
1. FACE RUNOUT AND ECCENTRICITY .008 MAX T.I.R.
2. PROTECTIVE CONDUIT FURNISHED BY CUSTOMER
3. WEIGHT (LBS): 200
4. PROVIDED WITH CABLE CONNECTOR TO LENGTH OF CABLE AS REQUESTED BY CUSTOMER

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

REV. DESC: CHANGE LAB/OFFICE FROM 102 TO 018			
REV: A	VERSION: 01	REVISED: 08:40:43 06/02/2021	TDR: 000001164667
MODEL NO. 066930-701			REF: -
BY: USWATUR			B

BALDOR

DIM SHT 180TY SUB,1 SIZE SMALLER FLG/SH WITH CABLE CONNECTOR

066930-701