

ABB BALDOR RELIANCE III

Customer information packet

CEM7014T-I-5

1HP, 1760RPM, 3PH, 60HZ, 143TC, 3520M, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	D
Type	AC
Mech. spec.	35X732
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYX732
Eff. date	02-21-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-10-2022

KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.09 IN
Power Factor	67
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1774 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	35X732G119G1											
CAT.NO.												
HP	1											
VOLTS	575											
AMPS	1.3											
RPM	1775				MOTOR WEIGHT							
HERTZ	60	PH	3	CL	F	DE BRG	6205					
SER.F.	1.15	DES	B	CODE		M	ODE BRG		6203			
FRAME	143TC		GREASE		POLYREX EM							
RATING	40C AMB-CONT											
				NEMA-NOM-EFF				85.5		PF	70	
	SFA 1.34											

AC Induction Motor Performance Data

Record # 82126

Typical performance - not guaranteed values

Winding: 35WGG119-R004			Type: 3522M		Enclosure: OPEN	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		2.95 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.2	Breakdown Torque		12.3 LB-FT	
R.P.M.		1770	Pull-up Torque		7.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	10 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	11.1 A	
Service Factor (S.F.)		1.15	No-load Current		0.8 A	
NEMA Nom. Eff.	85.5	Power Factor	73	Line-line Res. @ 25°C	30.8 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		31°C	
S.F. Amps		1.3	Temp. Rise @ S.F. Load		36°C	
			Locked-rotor Power Factor		62.7	
			Rotor inertia		0.159 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	71	77	81	75
Efficiency	71.9	81.5	84.7	85.4	85	84.3	85.3
Speed	1792	1785	1777	1769	1760	1751	1767
Line amperes	0.83	0.92	1.06	1.22	1.42	1.64	1.34

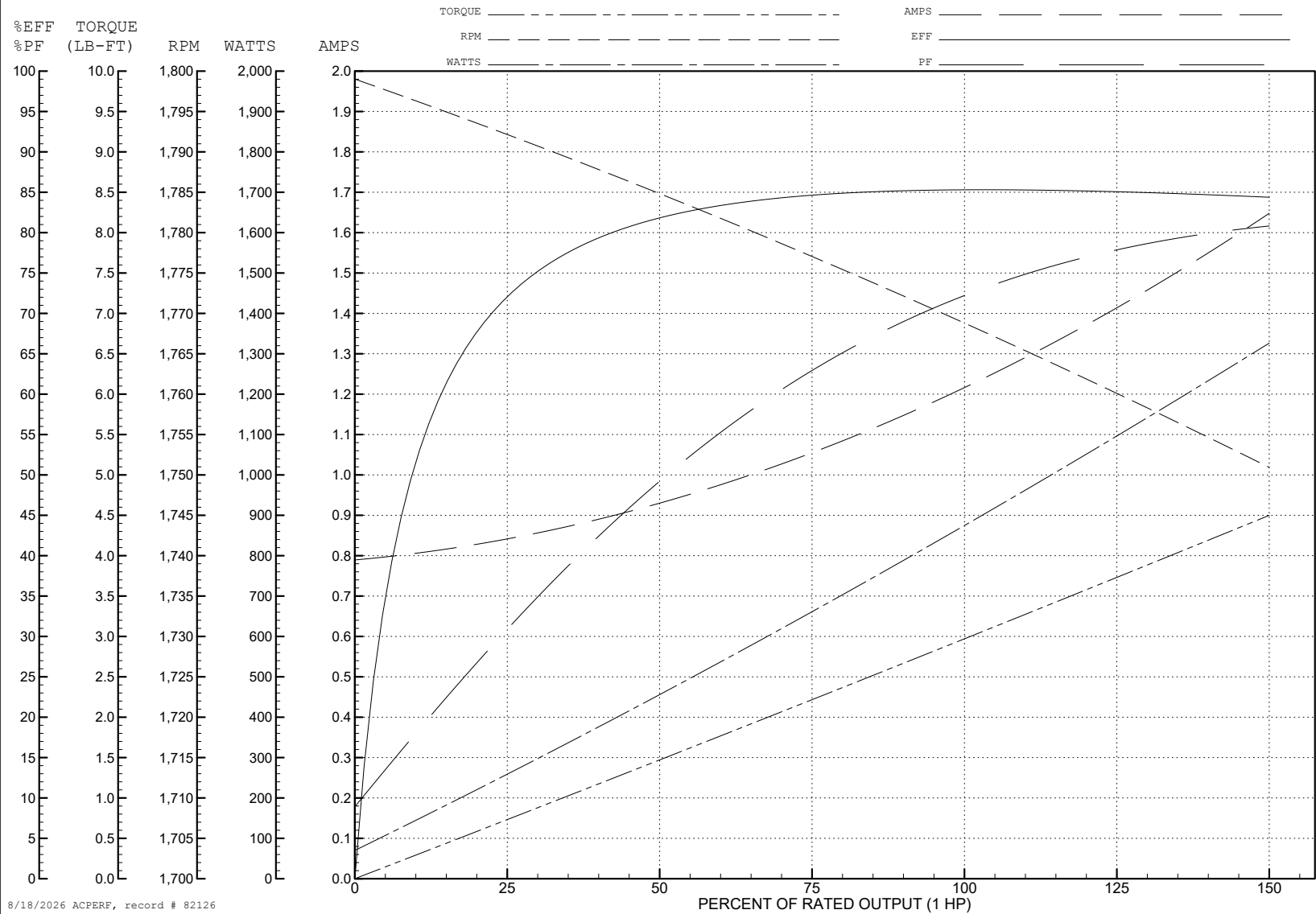
ABB Motors and Mechanical Inc.

WINDING # 35WGG119

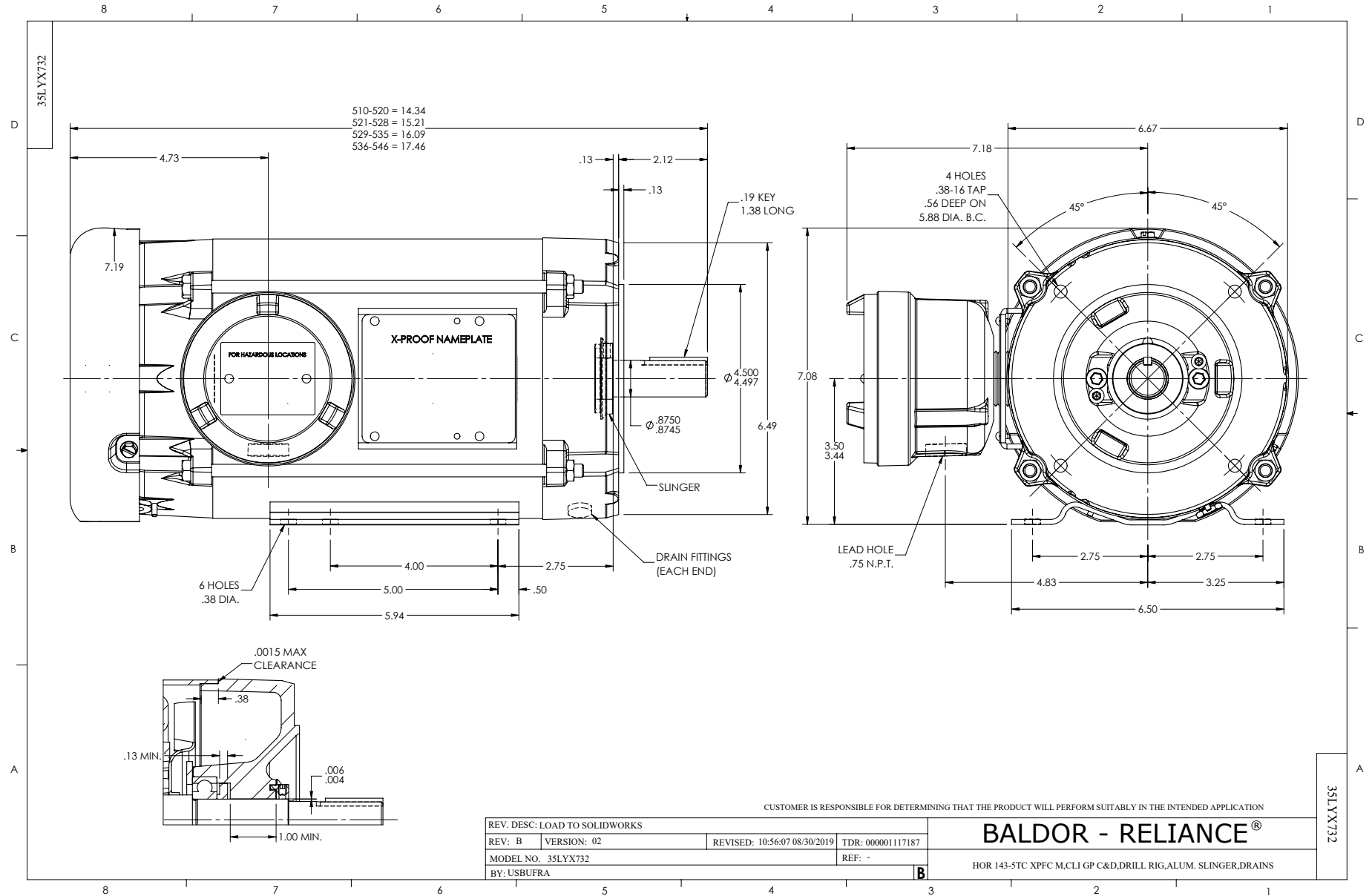
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M

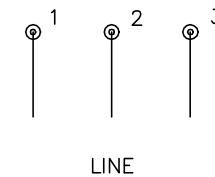
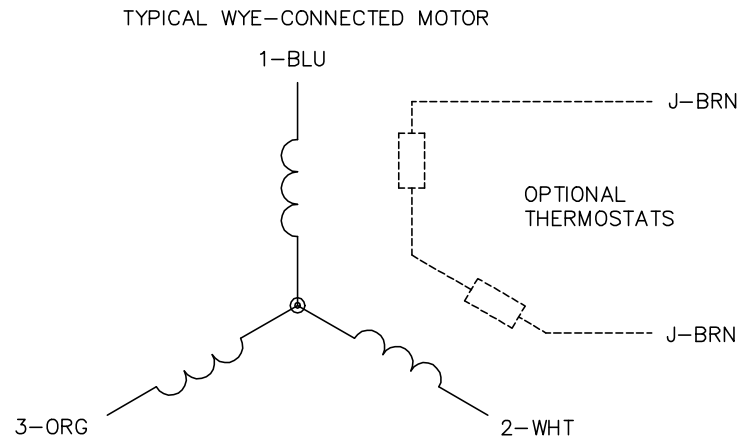
TORQUES (LB-FT): PO=12.3 PU=7.7 LR=10 LRA=11.1



8/18/2026 ACPERF, record # 82126



CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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