ABB BALDOR RELIANCE

Customer information packet

CEM7014T-I-5

1HP, 1760RPM, 3PH, 60HZ, 143TC, 3520M, XPFC, F1
Class - CLI GP C,D
Division - Division I

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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										

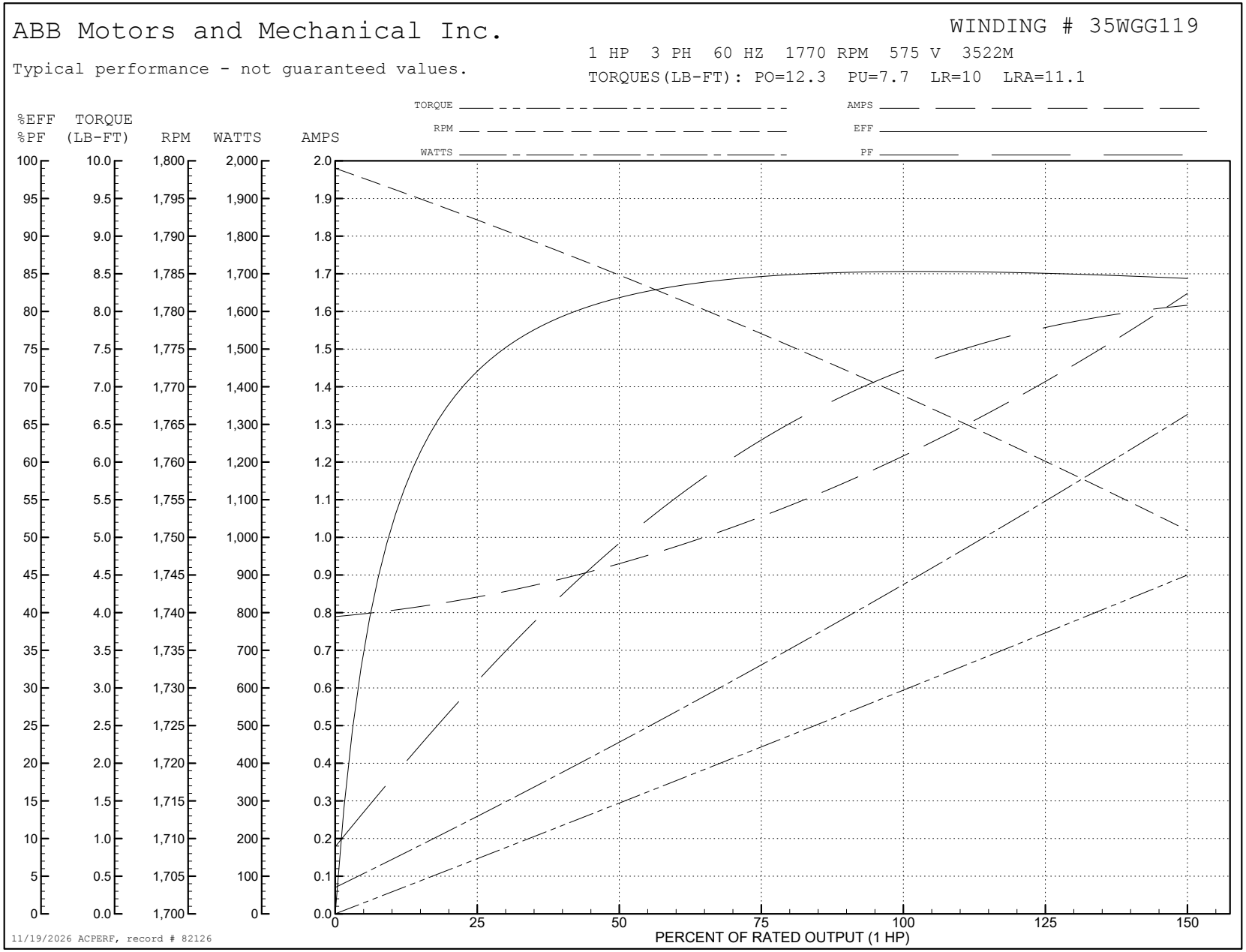
AC Induction Motor Performance Data
Record # 82126
Typical performance - not guaranteed values

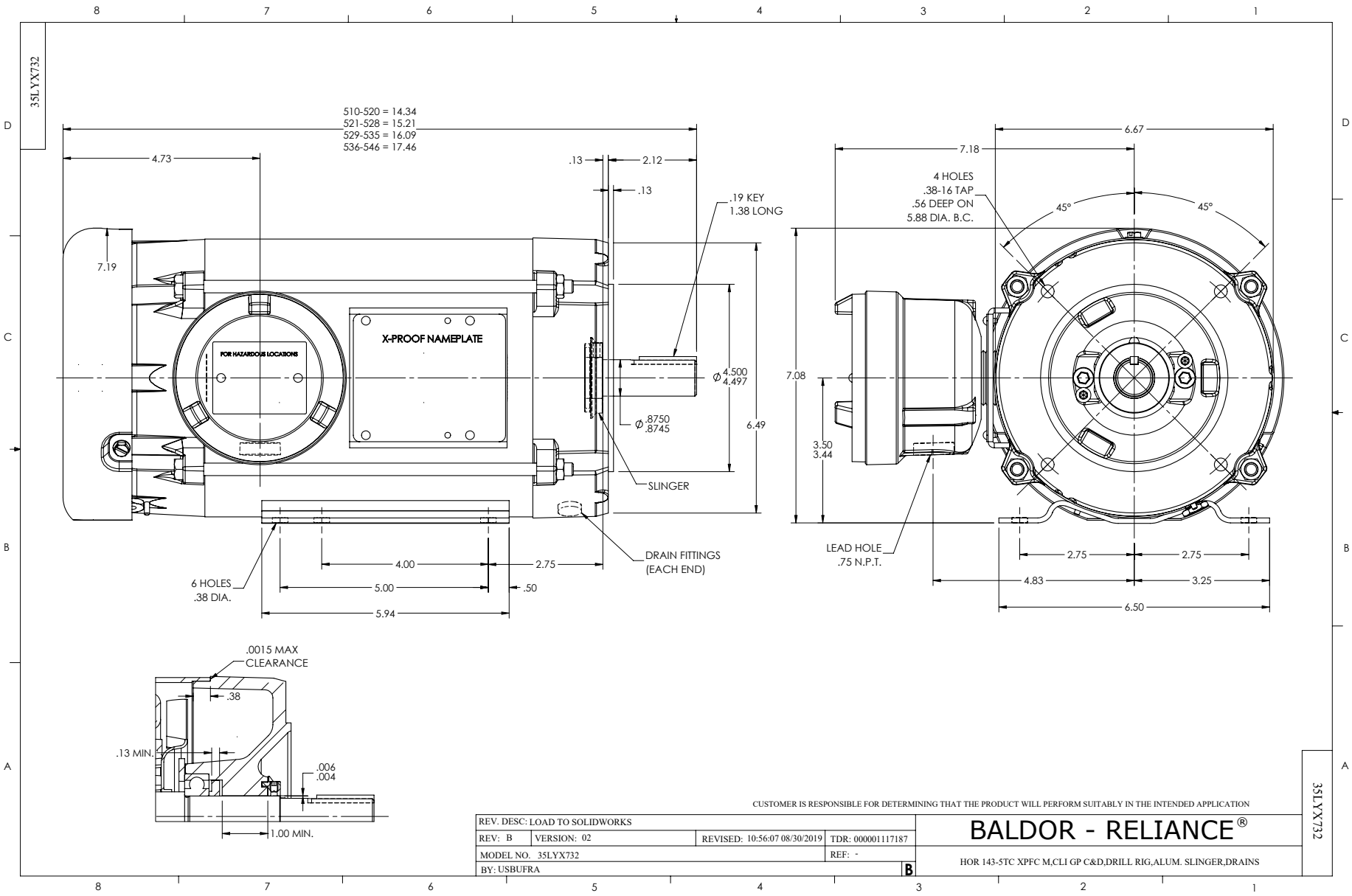
Winding: 35WGG119-R004	**Type:** 3522M	**Enclosure:** OPEN

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. @ 25ºC**	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

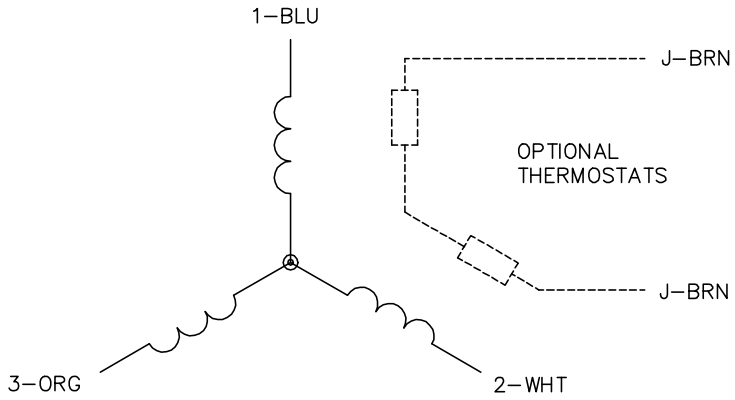
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	50	63	71	77	81	75
Efficiency	71.9	81.5	84.7	85.4	85	84.3	85.3
Speed	1792	1785	1777	1769	1760	1751	1767
Line amperes	0.83	0.92	1.06	1.22	1.42	1.64	1.34

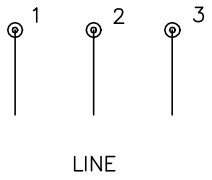

ABB Motors and Mechanical Inc.
WINDING # 35WGG119
1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=12.3 PU=7.7 LR=10 LRA=11.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/19/2026 ACPERF, record # 82126


35LYX732
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.73
.13
2.12
.13
.19 KEY
1.38 LONG
7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
Ø .8750
.8745
6.49
SLINGER
DRAIN FITTINGS
(EACH END)
6 HOLES
.38 DIA.
4.00
2.75
5.00
.50
5.94
6.67
7.18
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
45°
45°
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
4.83
3.25
6.50
.0015 MAX
CLEARANCE
.38
.13 MIN.
.006
.004
1.00 MIN.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 10:56:07 08/30/2019
TDR: 000001117187
MODEL NO. 35LYX732
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5TC XPFC M,CLI GP C&D,DRILL RIG,ALUM. SLINGER,DRAINS
35LYX732

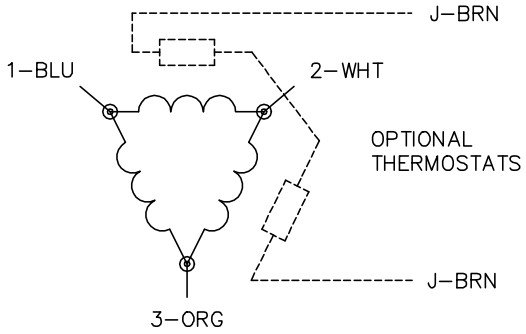
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1