ABB BALDOR RELIANCE

Customer information packet

DRX14144T-5

1HP, 1770RPM, 3PH, 60HZ, 143T, 3522M, XPFC, F1
Class - CLI GP C,D
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 2:02:40 AM

Specifications

Enclosure	XPFC
Frame	143T
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
Constant Torque Speed Range	6
Current @ Voltage	1.250 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYX081
Eff. date	10-31-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	10-28-2021

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	71
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

NP1401XPSLEV												
NO.					**CC**	010A						
S/N					**TEMP CODE**	T3C						
SPEC.	35-0000-1378				**INV.TYPE**	PWM						
CAT.NO.	DRX14144T-5				**C HP FR**	60	**C HP TO**	90				
HP	1				**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575				**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	1.3			**MAG CUR**	.87							
RPM	1775			**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	85.5					
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	0.159					
FRAME	143T	**RATING**	40C AMB-CONT									
	55C AMB @ 1.0 SF											
	1.15 SF SINEWAVE				NEMA MG-1 PT 5, IP55							

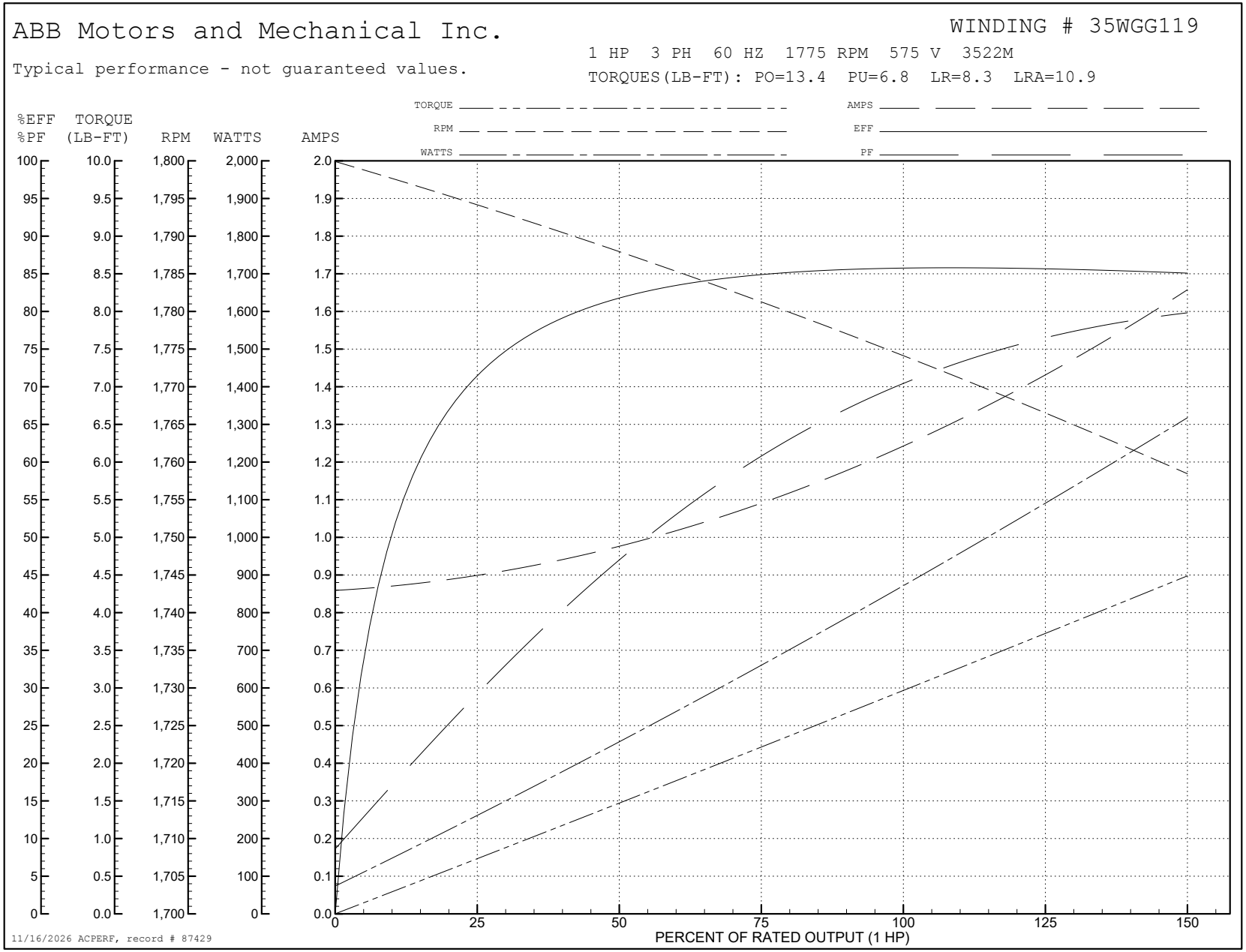
AC Induction Motor Performance Data
Record # 87429
Typical performance - not guaranteed values

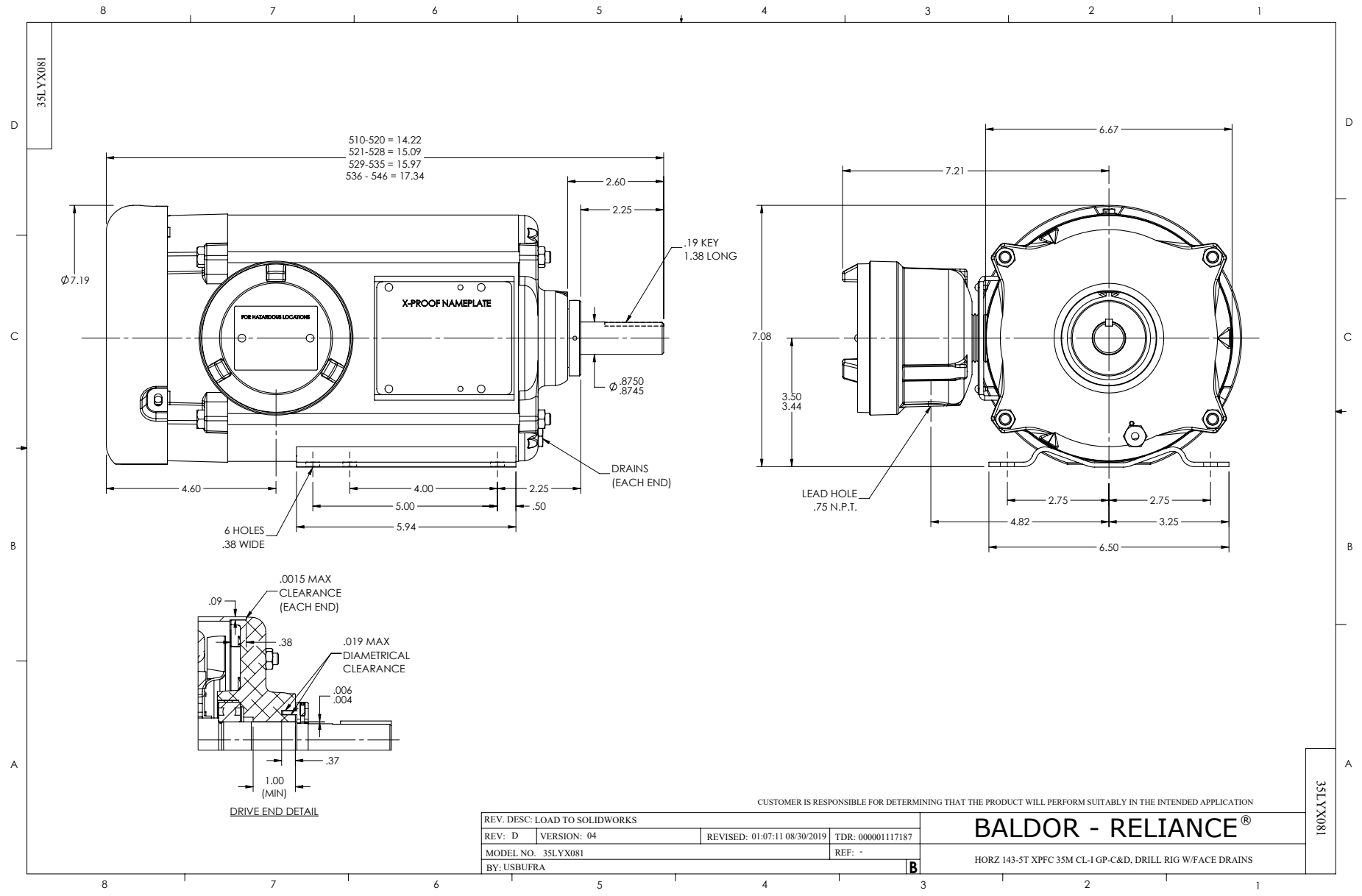
Winding: 35WGG119-R003	**Type:** 3522M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	2.99 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.3	**Breakdown Torque**	13.4 LB-FT
R.P.M.			1775	**Pull-up Torque**	6.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.3 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	10.9 A
Service Factor (S.F.)			1	**No-load Current**	0.87 A
NEMA Nom. Eff.	85.5	**Power Factor**	70	**Line-line Res. @ 25ºC**	30.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C
				Locked-rotor Power Factor	63.4
				Rotor inertia	0.159 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

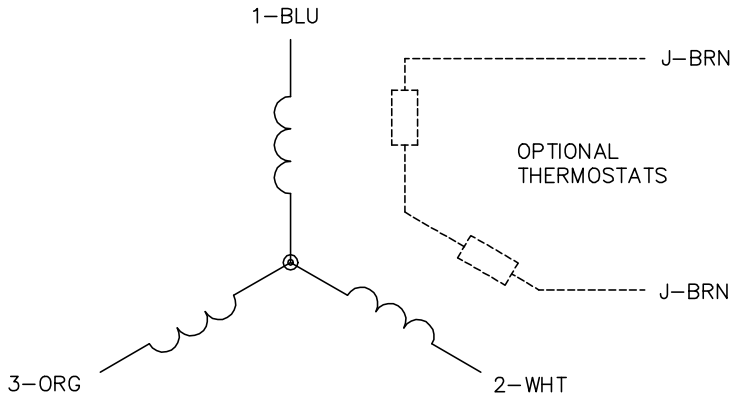
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	48	61	70	76	80
Efficiency	72.1	81.6	84.9	85.8	85.7	85
Speed	1794	1787	1781	1774	1767	1758
Line amperes	0.89	0.97	1.1	1.26	1.44	1.65

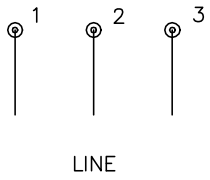

ABB Motors and Mechanical Inc.
WINDING # 35WGG119
1 HP 3 PH 60 HZ 1775 RPM 575 V 3522M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=13.4 PU=6.8 LR=8.3 LRA=10.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/16/2026 ACPERF, record # 87429


35LYX081
510-520 = 14.22
521-528 = 15.09
529-535 = 15.97
536 - 546 = 17.34
2.60
2.25
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø .8750
.8745
DRAINS
(EACH END)
4.60
4.00
2.25
5.00
.50
5.94
6 HOLES
.38 WIDE
6.67
7.21
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
4.82
3.25
6.50
.0015 MAX
CLEARANCE
(EACH END)
.09
.38
.019 MAX
DIAMETRICAL
CLEARANCE
.006
.004
.37
1.00
(MIN)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: D
VERSION: 04
REVISED: 01:07:11 08/30/2019
TDR: 000001117187
MODEL NO. 35LYX081
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 143-5T XPFC 35M CL-I GP-C&D, DRILL RIG W/FACE DRAINS
35LYX081

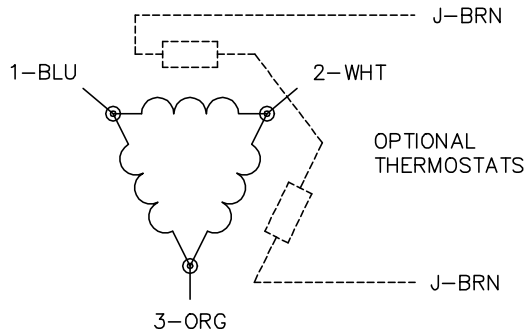
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1