ABB BALDOR RELIANCE

Customer information packet

XM141542T

1.5//1HP, 1770//1475RPM, 3PH, 60//50HZ, 145T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 50 HZ
	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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	1.3
Current @ Voltage	4.640 A @ 208.0 V
	4.600 A @ 230.0 V
	4.000 A @ 190.0 V
	2.300 A @ 460.0 V
	2.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	B
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYQ558
Eff. date	07-14-2025
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	03-11-2022

Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	2.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	72
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm
	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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	35Q558L955G1			**INV.TYPE**	PWM						
CAT.NO.	XM141542T			**C HP FR**	60	**C HP TO**	90				
HP	1.5//1			**CT HZ FROM**	1.3			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	1.3			**VT HZ TO**	60		
AMPS	4.6/2.3//4/2			**MAG CUR**	3/1.5						
RPM	1770//1475			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	86.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	0.174				
FRAME	145T	**RATING**	40C AMB-CONT								
	55C AMB AT 1.00 SF SINEWAVE										
	NEMA MG-1 PART 5, IP54				1.15 SF SINEWAVE						

AC Induction Motor Performance Data
Record # 95398
Typical performance - not guaranteed values

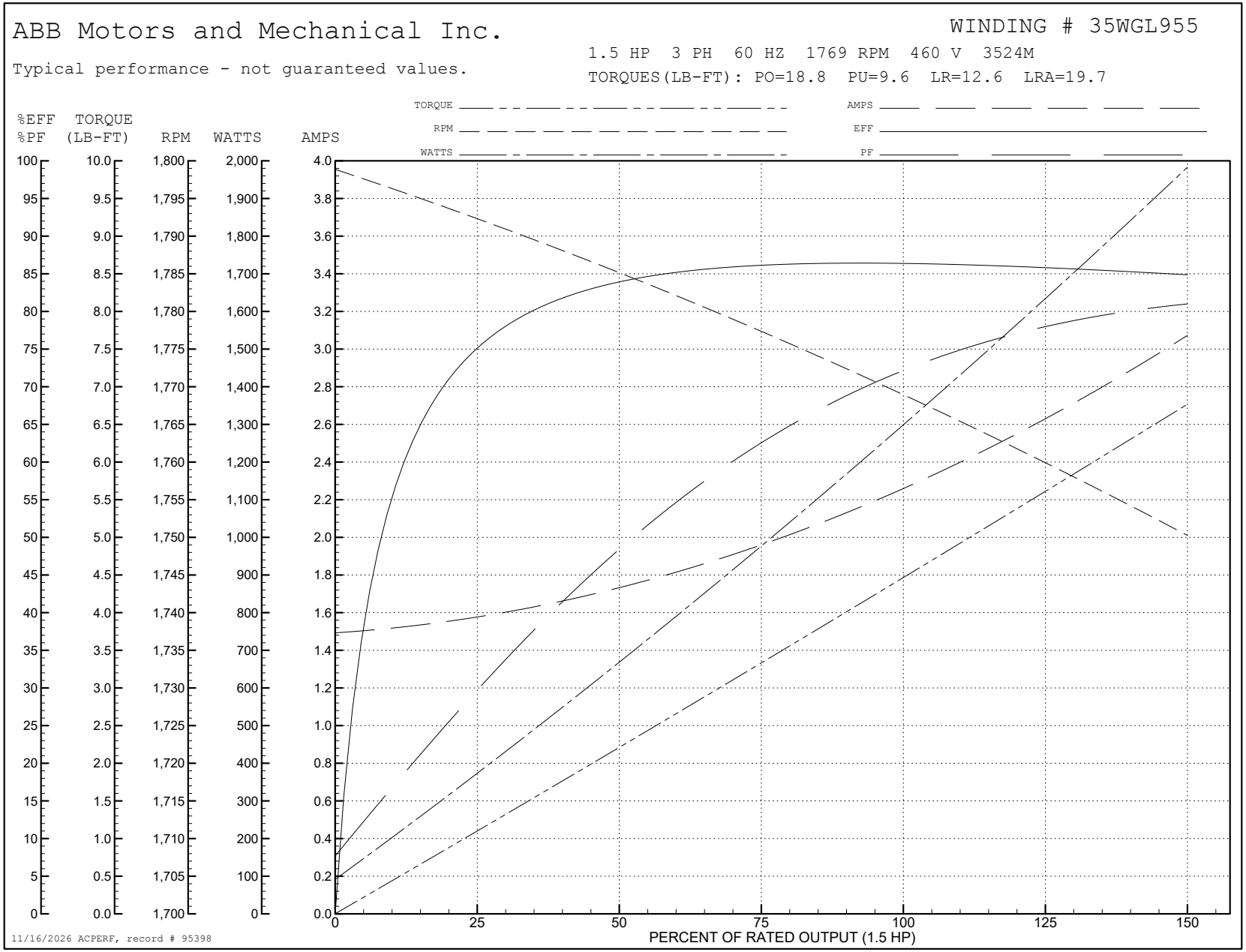
Winding: 35WGL955-R010	**Type:** 3524M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			4.6/2.3//4/2
R.P.M.			1770//1475
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	86.5	**Power Factor**	72
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	18.8 LB-FT
Pull-up Torque	9.6 LB-FT
Locked-rotor Torque	12.6 LB-FT
Starting Current	19.7 A
No-load Current	1.51 A
Line-line Res. @ 25ºC	11.8 Ω
Temp. Rise @ Rated Load	48°C
Locked-rotor Power Factor	58.4
Rotor inertia	0.173 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	49	63	72	78	81
Efficiency	75.1	83.5	86	86.5	85.8	84.8
Speed	1792	1785	1777	1769	1760	1750
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06


ABB Motors and Mechanical Inc.
WINDING # 35WGL955
1.5 HP 3 PH 60 HZ 1769 RPM 460 V 3524M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/16/2026 ACPERF, record # 95398

AC Induction Motor Performance Data
Record # 95399
Typical performance - not guaranteed values

Winding: 35WGL955-R010	**Type:** 3524M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			4.6/2.3//4/2
R.P.M.			1770//1475
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	86.5	**Power Factor**	72
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	3.58 LB-FT
Start Configuration	direct on line
Breakdown Torque	17 LB-FT
Pull-up Torque	9.2 LB-FT
Locked-rotor Torque	12.1 LB-FT
Starting Current	18.4 A
No-load Current	1.48 A
Line-line Res. @ 25ºC	11.8 Ω
Temp. Rise @ Rated Load	39°C
Locked-rotor Power Factor	63.9
Rotor inertia	0.173 lb-ft²

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	27	44	57	67	74	79
Efficiency	70.1	80.3	83.7	84.8	84.5	83.8
Speed	1493	1487	1481	1474	1467	1459
Line amperes	1.5	1.61	1.78	2	2.27	2.58

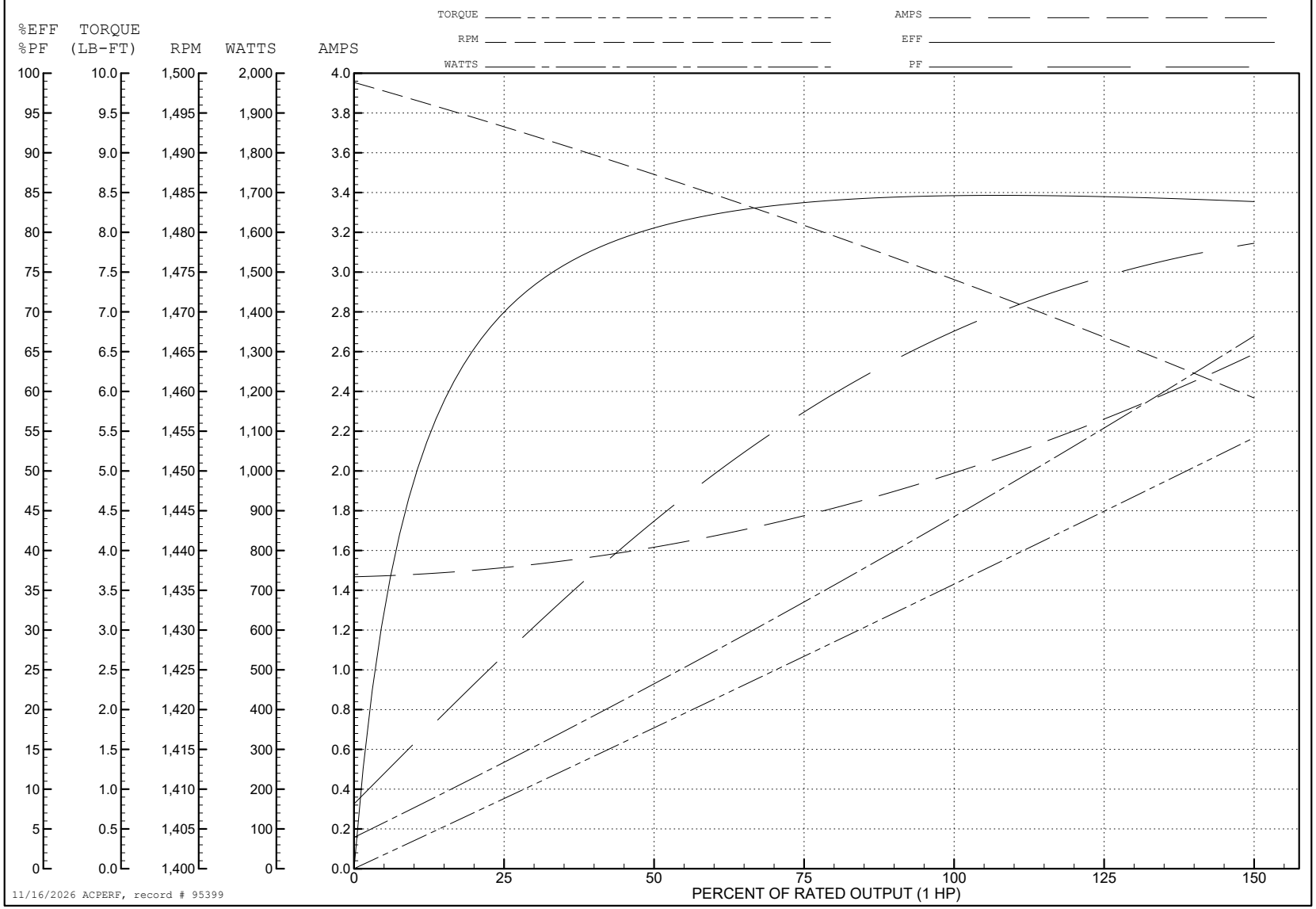
ABB Motors and Mechanical Inc.

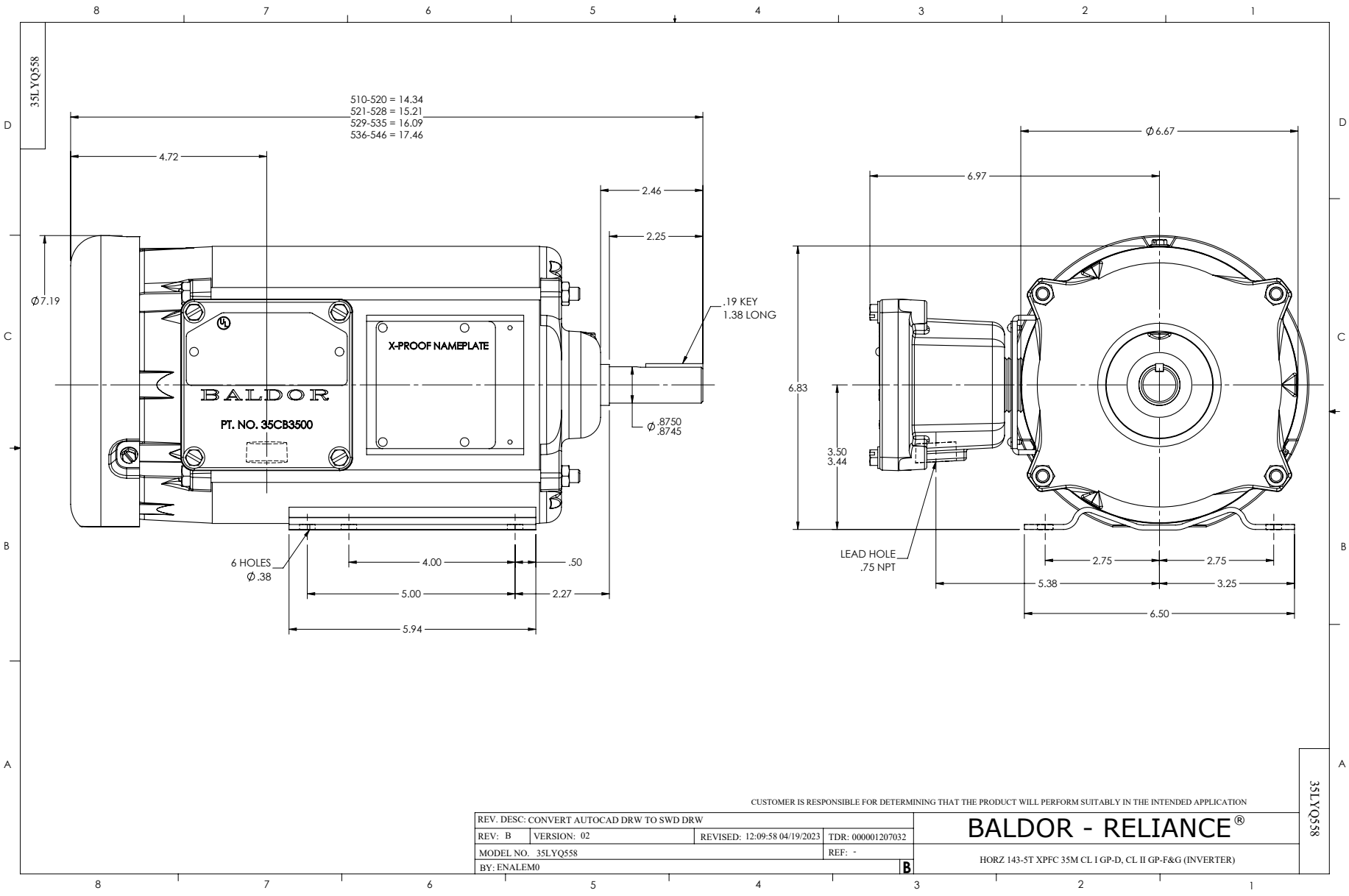
WINDING # 35WGL955

1 HP 3 PH 50 HZ 1474 RPM 380 V 3524M

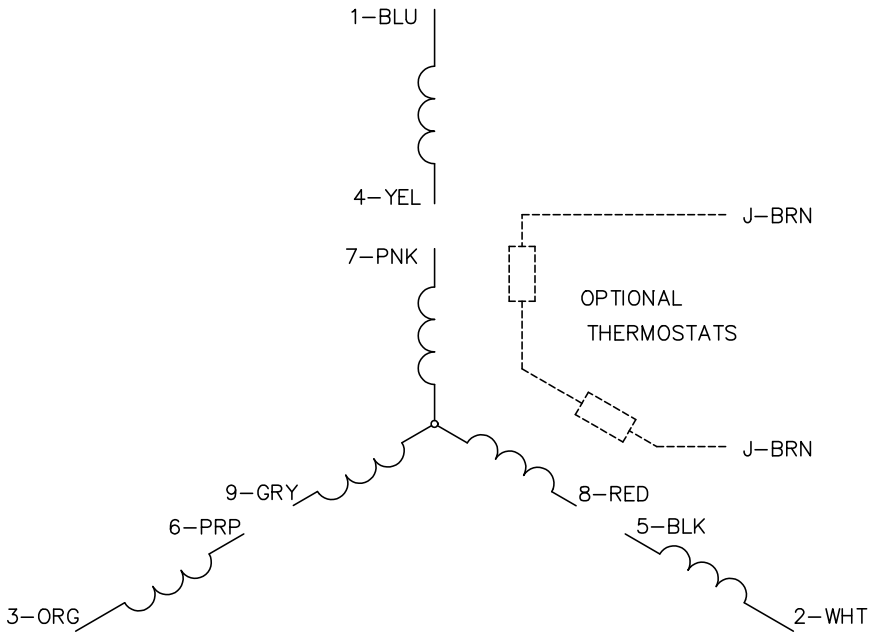
Typical performance - not guaranteed values.

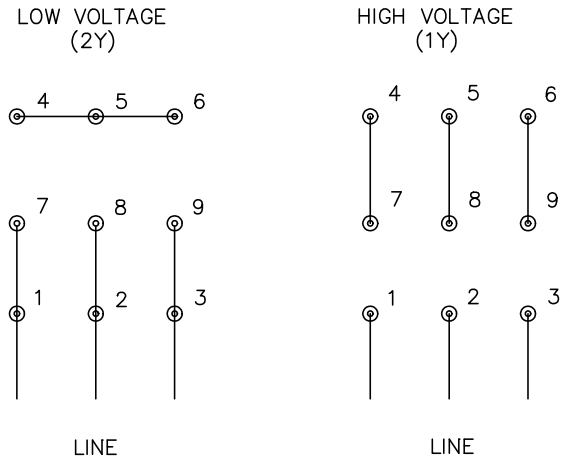
TORQUES(LB-FT): PO=17 PU=9.2 LR=12.1 LRA=18.4




35LYQ558
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.46
2.25
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
.8745
6 HOLES
Ø .38
4.00
.50
5.00
2.27
5.94
Ø 6.67
6.97
6.83
3.50
3.44
LEAD HOLE
.75 NPT
2.75
2.75
5.38
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 12:09:58 04/19/2023
TDR: 000001207032
MODEL NO. 35LYQ558
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 143-5T XPFC 35M CL I GP-D, CL II GP-F&G (INVERTER)
35LYQ558

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS