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# Customer information packet

## XM141542T-5

1.5HP, 1770RPM, 3PH, 60HZ, 143T, 3524M, XPFC, F  
Class - CLI GP D; CLII GP F,G  
Division - Division I

## Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Steel
Frequency	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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.3
Current @ Voltage	1.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
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	1.7 a
Insulation Class	F

## Part detail

Revision	B
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGG122
Layout	35LYQ558
Eff. date	11-13-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Quantity/Wire Size</b>	3 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	X3524M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	15.21 IN
<b>Power Factor</b>	77
<b>Product Family</b>	Hazardous Location Motor
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Normally Closed Thermostat
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP0887XPSLEV**

<b>NO.</b>		<b>CC</b>	010A		
<b>S/N</b>		<b>TEMP CODE</b>	T3C		
<b>SPEC.</b>	35Q558G122G1	<b>INV.TYPE</b>	PWM		
<b>CAT.NO.</b>	XM141542T-5	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>HP</b>	1.5	<b>CT HZ FROM</b>	1.3	<b>CT HZ TO</b>	60
<b>VOLTS</b>	575	<b>VT HZ FROM</b>	1.3	<b>VT HZ TO</b>	60
<b>AMPS</b>	1.7	<b>MAG CUR</b>	1		
<b>RPM</b>	1770	<b>MX RPM</b>	2700		
<b>HZ</b>	60	<b>PH</b>	3	<b>CL</b>	F
		<b>NOM.EFF.</b>	86.5		
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>SL HZ</b>	1
		<b>WK2</b>	0.174		
<b>FRAME</b>	145T	<b>RATING</b>	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 # 87555

Typical performance - not guaranteed values

<b>Winding:</b> 35WGG122-R003		<b>Type:</b> 3524M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1.5	<b>Full Load Torque</b>	4.46 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	1.7	<b>Breakdown Torque</b>	17.4 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	9.2 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	11.3 LB-FT
<b>NEMA Design Code</b>	B	<b>KVA Code</b>	L	<b>Starting Current</b>	14.8 A
<b>Service Factor (S.F.)</b>	1	<b>No-load Current</b>	1 A		
<b>NEMA Nom. Eff.</b>	86.5	<b>Power Factor</b>	77	<b>Line-line Res. @ 25°C</b>	18.8 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	41°C	
			<b>Locked-rotor Power Factor</b>	58.3	
			<b>Rotor inertia</b>	0.173 lb-ft <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 1.5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	36	56	69	77	82	85
<b>Efficiency</b>	76.7	84.6	86.5	86.7	85.9	84.7
<b>Speed</b>	1792	1786	1779	1770	1762	1753
<b>Line amperes</b>	1.06	1.2	1.42	1.7	2.01	2.36

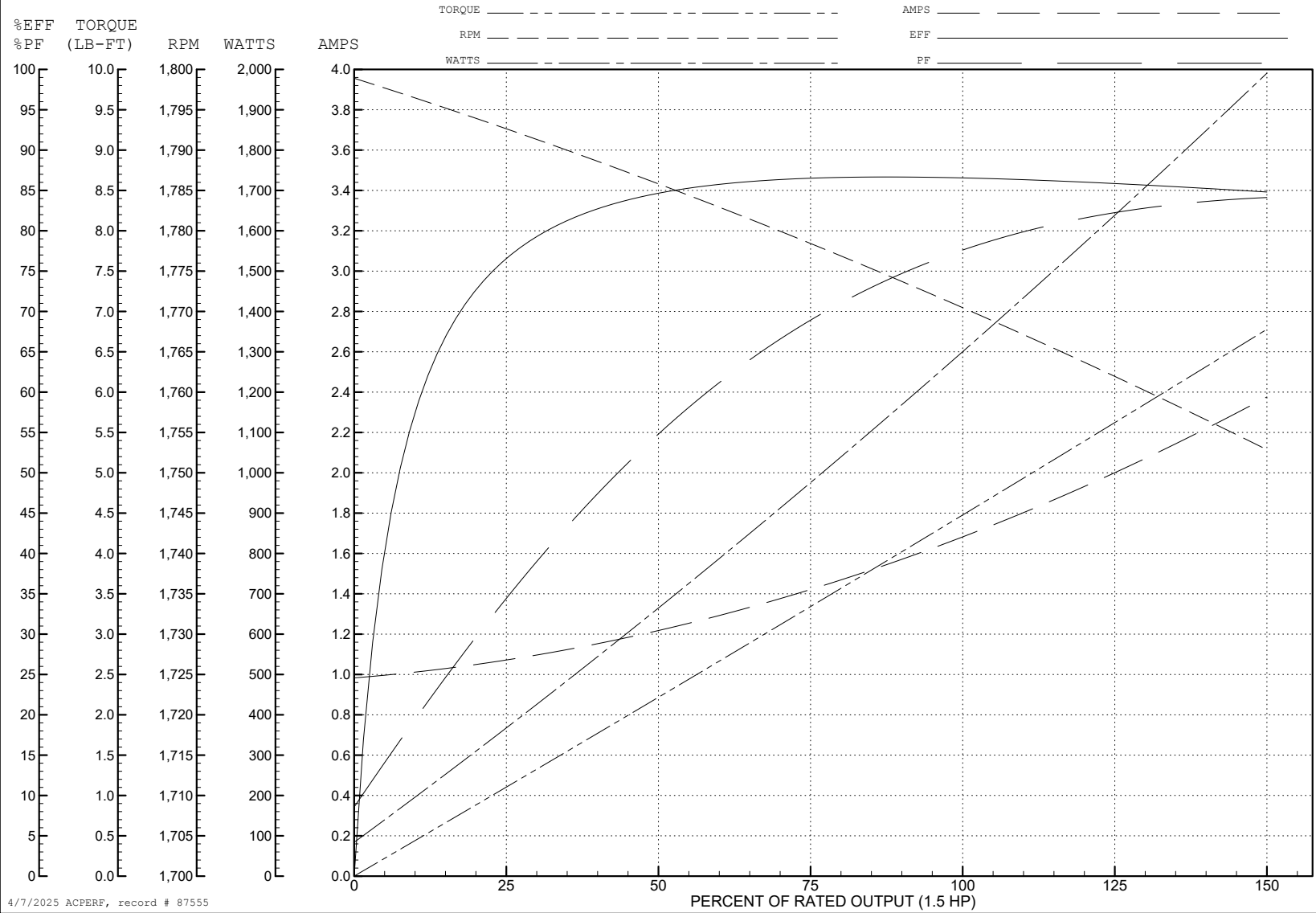
ABB Motors and Mechanical Inc.

WINDING # 35WGG122

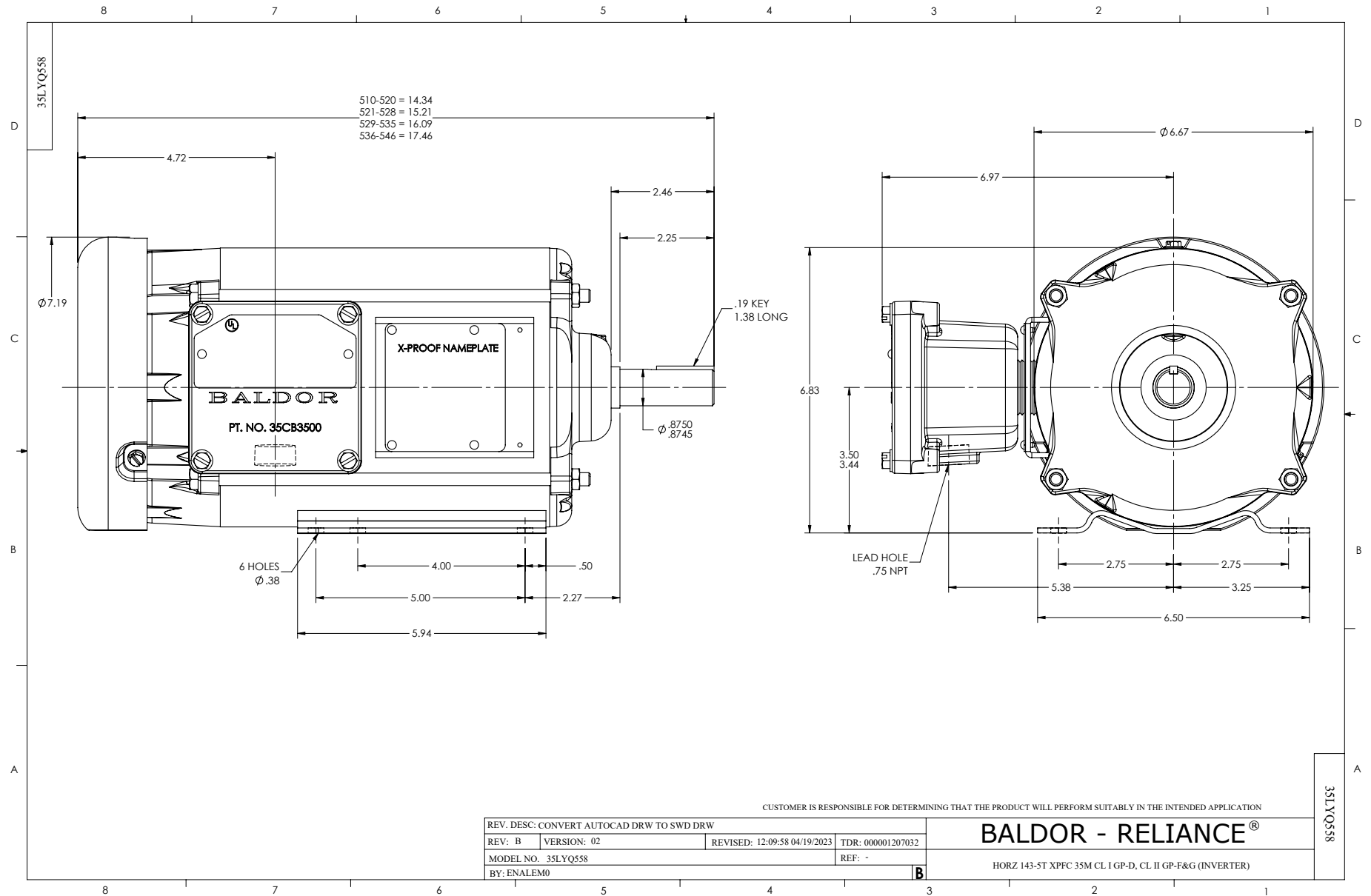
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3524M

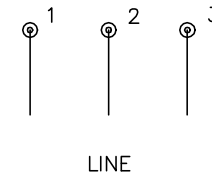
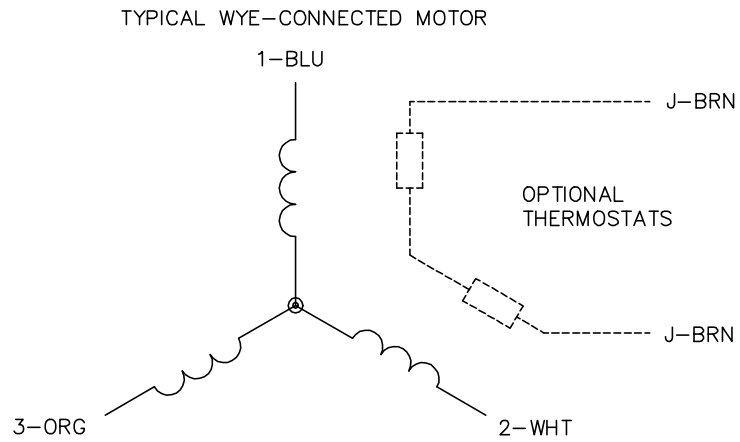
TORQUES (LB-FT): PO=17.4 PU=9.2 LR=11.3 LRA=14.8



4/7/2025 ACPERF, record # 87555



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: -	© □	

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

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