

ABB BALDOR RELIANCE III

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
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	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

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 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	77
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	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.	35Q558G122G1					INV.TYPE	PWM				
CAT.NO.	XM141542T-5					C HP FR	60	C HP TO	90		
HP	1.5					CT HZ FROM	1.3	CT HZ TO	60		
VOLTS	575					VT HZ FROM	1.3	VT HZ TO	60		
AMPS	1.7				MAG CUR	1					
RPM	1770				MX RPM	2700					
HZ	60	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 # 87555

Typical performance - not guaranteed values

Winding: 35WGG122-R003			Type: 3524M		Enclosure: XPFC	
Nameplate Data			575 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.46 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.7	Breakdown Torque		17.4 LB-FT	
R.P.M.		1770	Pull-up Torque		9.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	11.3 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	14.8 A	
Service Factor (S.F.)			1	No-load Current	1 A	
NEMA Nom. Eff.	86.5	Power Factor	77	Line-line Res. @ 25°C	18.8 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load	41°C	
				Locked-rotor Power Factor	58.3	
				Rotor inertia	0.173 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1.5 HP

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

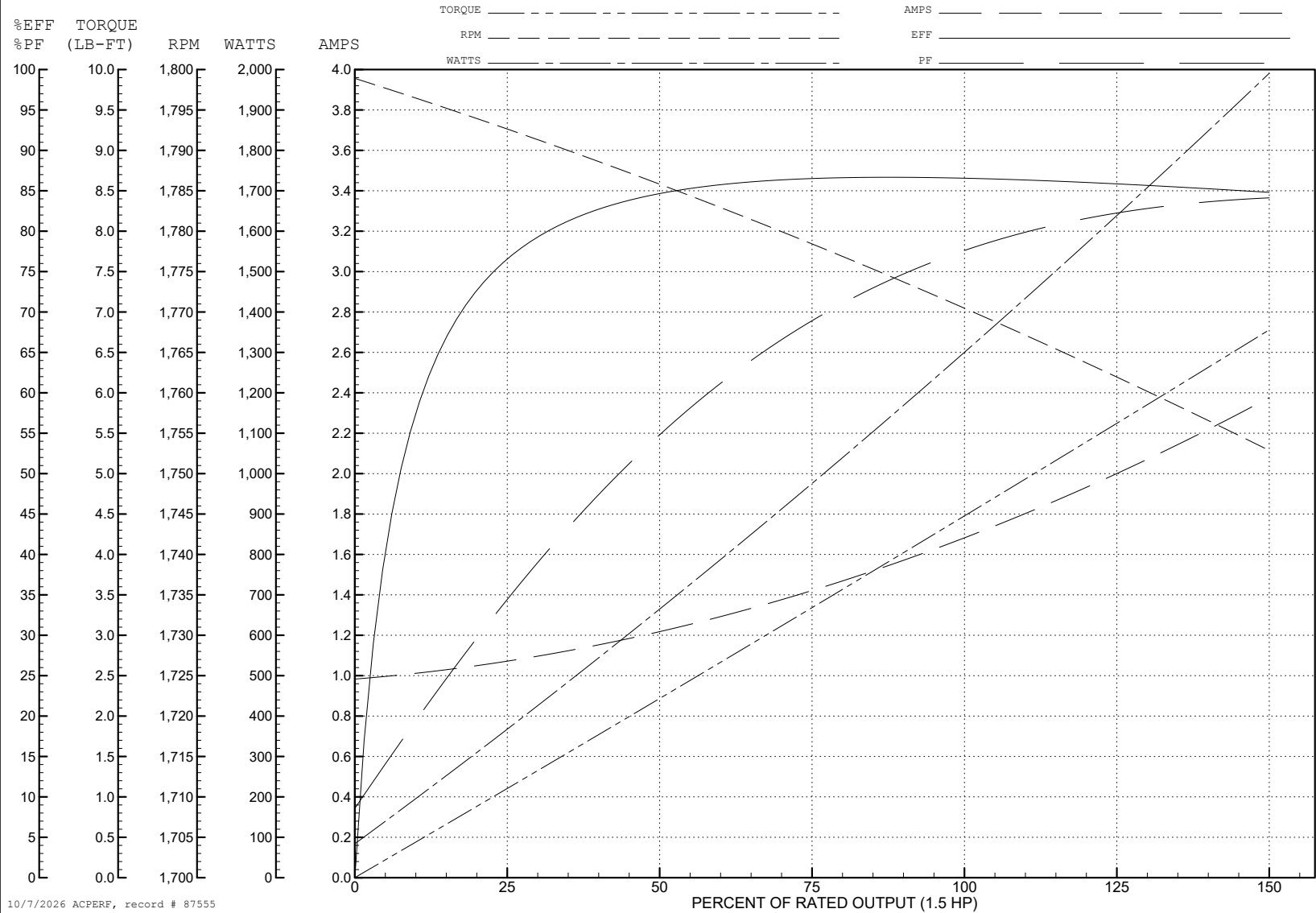
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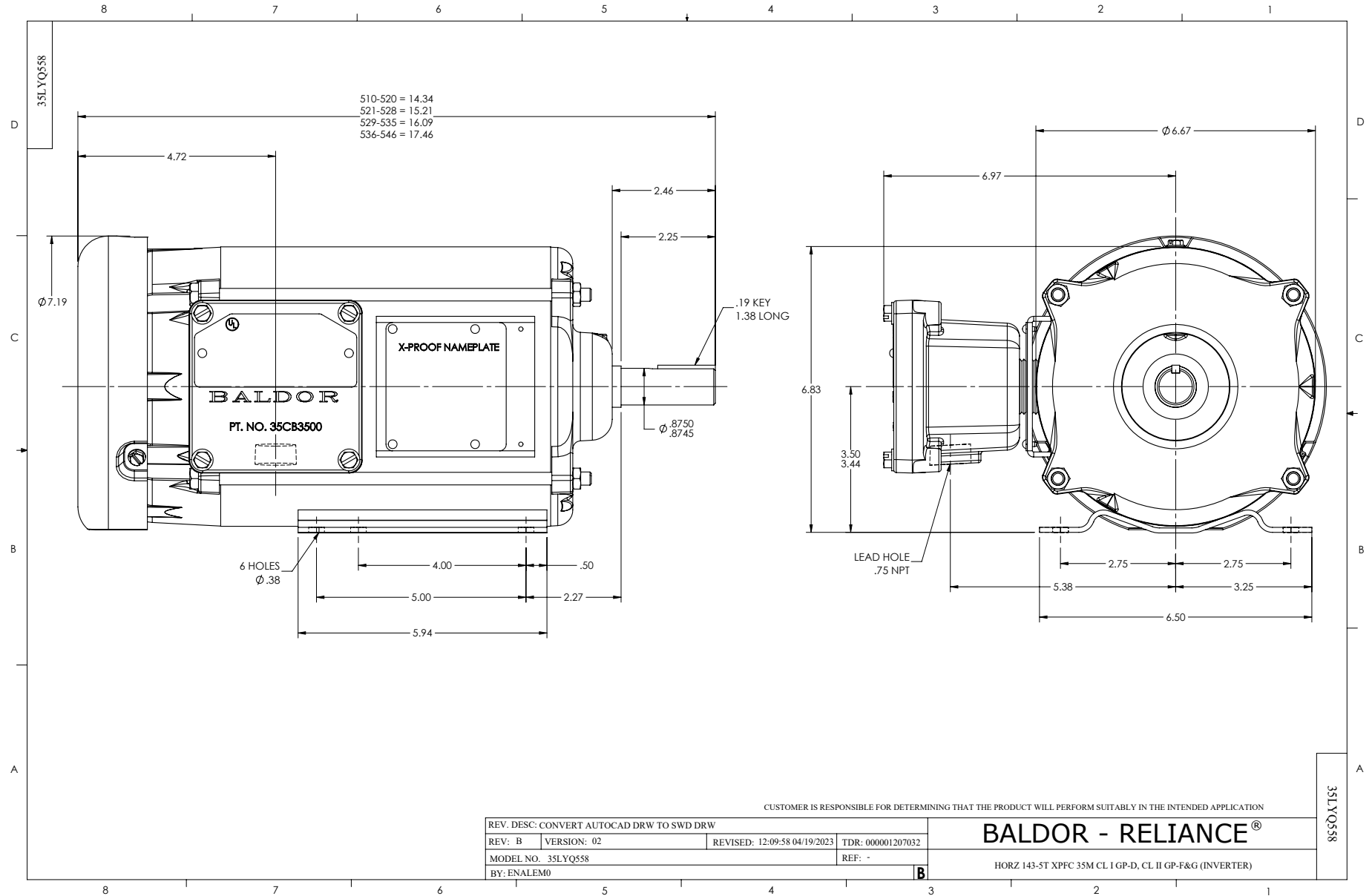
WINDING # 35WGG122

Typical performance - not guaranteed values.

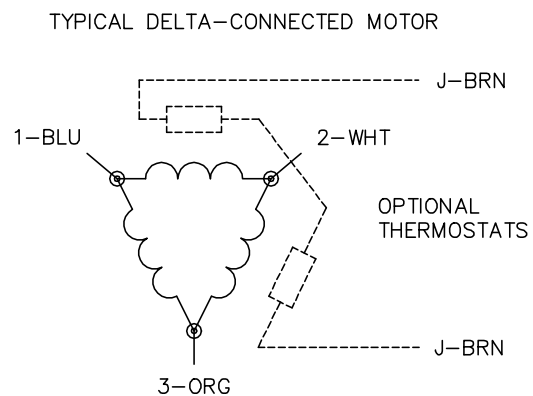
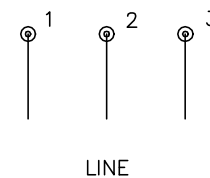
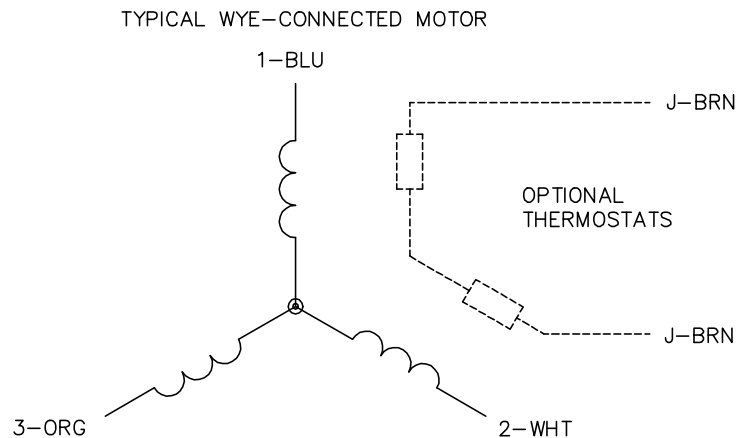
1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3524M

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





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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