

ABB BALDOR RELIANCE III

Customer information packet

XM14242T-5

2HP, 1765RPM, 3PH, 60HZ, 145T, 3528M, XPFC, F1

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	2.000 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	1.5
Current @ Voltage	2.150 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	2.2 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGZ823
Layout	35LYQ558
Eff. date	08-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Not Inverter
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	X3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	81
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	1765 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.	35Q558Z823G1					INV.TYPE	PWM				
CAT.NO.	XM14242T-5					C HP FR	60	C HP TO	90		
HP	2					CT HZ FROM	1.5		CT HZ TO	60	
VOLTS	575					VT HZ FROM	1.5		VT HZ TO	60	
AMPS	2.15				MAG CUR	1.15					
RPM	1765				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	86.5				
SER.F.	1.00	DES	B	SL HZ	1.17	WK2	0.202				
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 # 88444

Preliminary Data Sheet

Winding: 35WGZ823-R001			Type: 3528M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2	Full Load Torque		5.95 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		2.15	Breakdown Torque		22.1 LB-FT	
R.P.M.		1765	Pull-up Torque		13.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	15.85 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	18.31 A	
Service Factor (S.F.)		1.15	No-load Current		1.15 A	
NEMA Nom. Eff.	86.5	Power Factor	81	Line-line Res. @ 25°C	15.5 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		81°C	
S.F. Amps		2.45	Temp. Rise @ S.F. Load		98°C	
			Locked-rotor Power Factor		57	
			Rotor inertia		0.202 lb-ft²	

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	73	80	84	86	82
Efficiency	80.1	86.2	87.3	86.9	85.6	83.9	86.1
Speed	1791	1783	1773	1765	1755	1742	1759
Line amperes	1.23	1.45	1.76	2.15	2.62	3.1	2.43

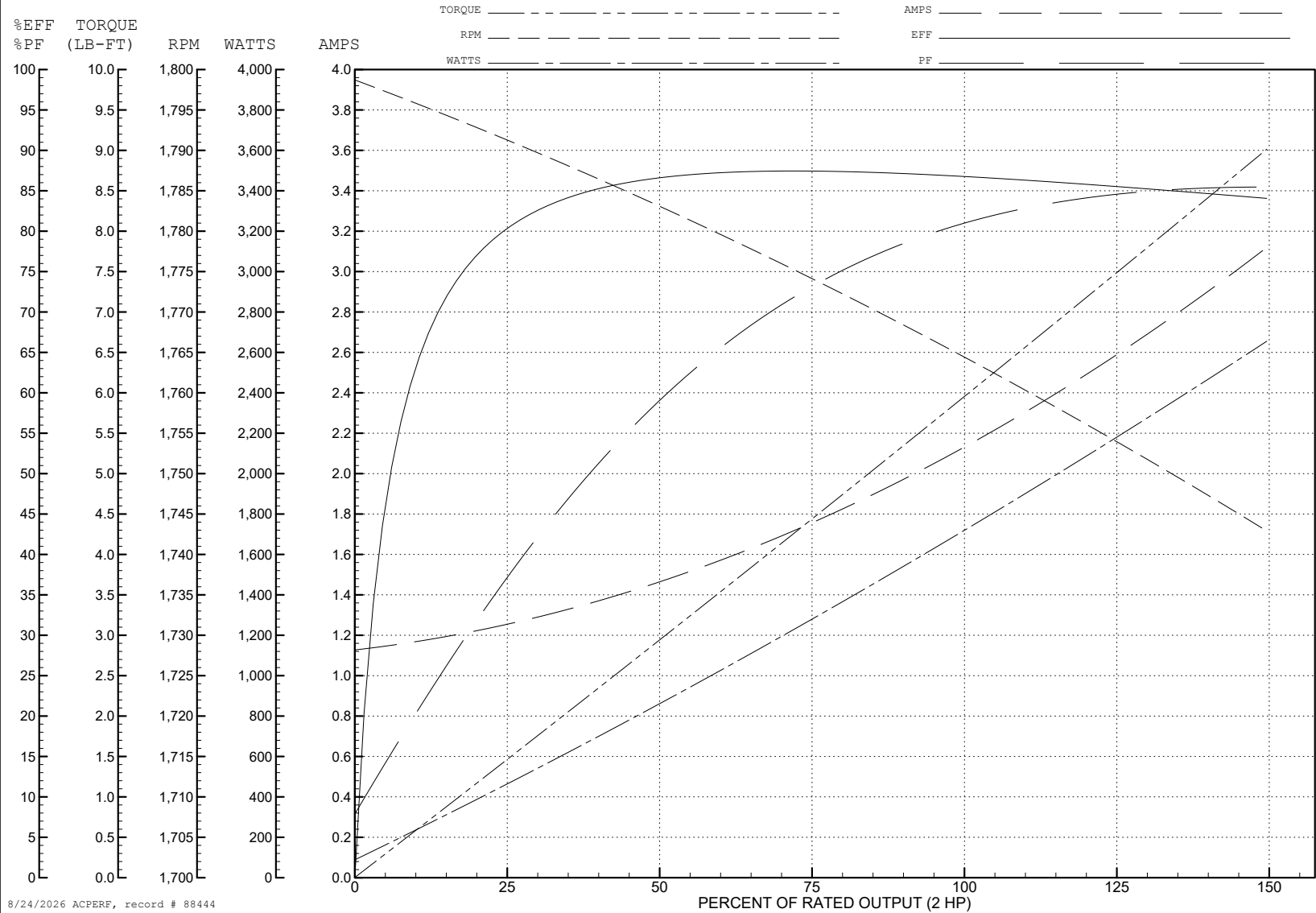
ABB Motors and Mechanical Inc.

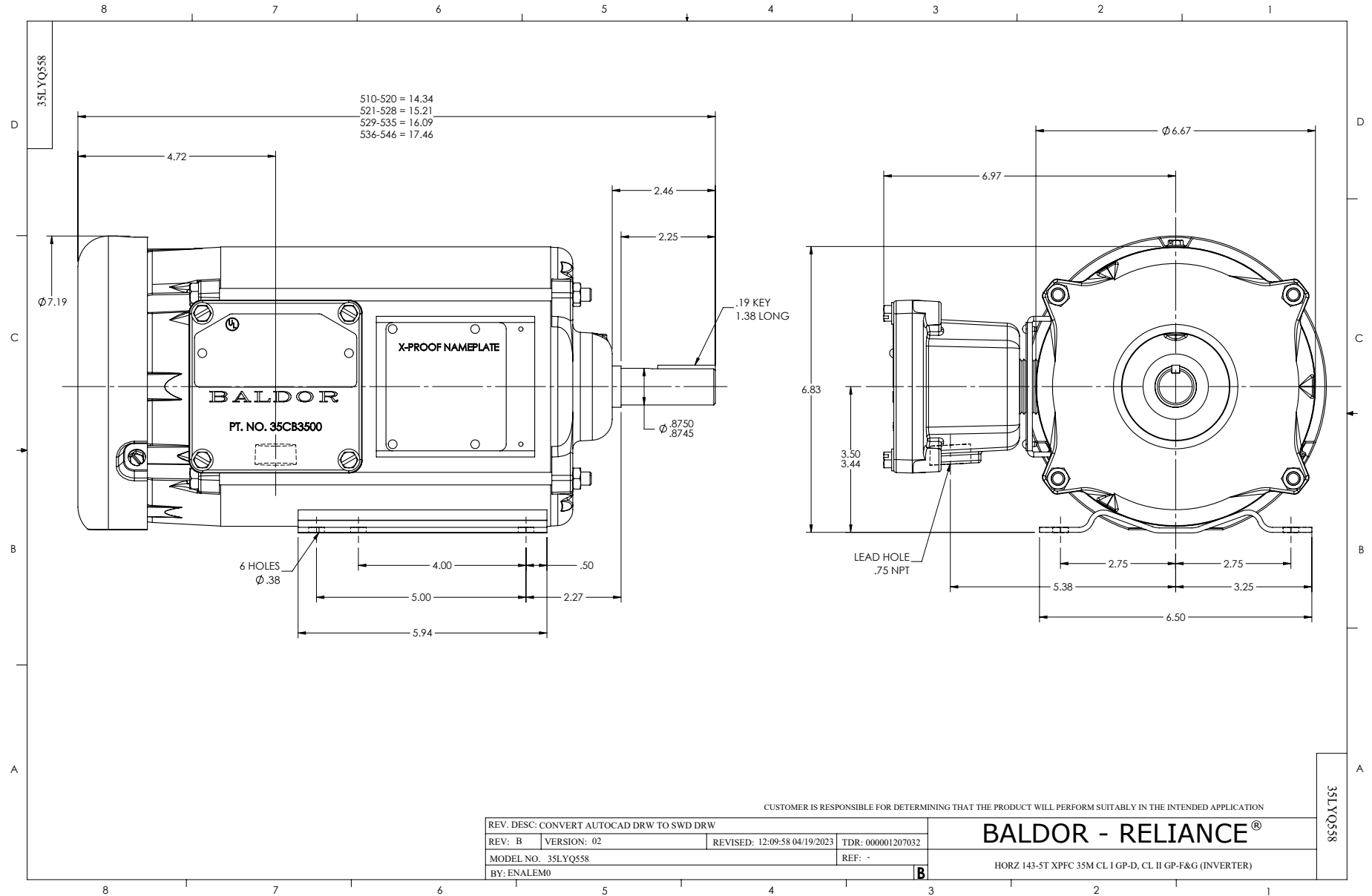
WINDING # 35WGZ823

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1765 RPM 575 V 3528M

TORQUES (LB-FT): PO=22.1 PU=13.1 LR=15.85 LRA=18.31





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

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BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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