

ABB BALDOR RELIANCE III

Customer information packet

EM7037T-5

2HP, 1755RPM, 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	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
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
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	35E362
Base	
Status	PRD/A
Elec. spec.	35WGG113
Layout	35LYE362
Eff. date	06-04-2024
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	01-10-2022

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
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	15.23 IN
Power Factor	80
Product Family	General Purpose
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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	35E362G113G1								
CAT.NO.									
HP	2	T. CODE	T3C						
VOLTS	575								
AMPS	2.15								
RPM	1765								
HZ	60	PH	3	CL	F				
SER.F.	1.00	DES	B	CODE	L				
RATING	40C AMB-CONT								
FRAME	145T	NEMA-NOM-EFF		86.5					
		PF	80						
BLANK									

AC Induction Motor Performance Data

Record # 87426

Typical performance - not guaranteed values

Winding: 35WGG113-R005			Type: 3528M		Enclosure: XPFC		
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		23.7 LB-FT		
R.P.M.		1764	Pull-up Torque		14.43 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.45 LB-FT	
NEMA Design Code		B	KVA Code		L	Starting Current	19.89 A
Service Factor (S.F.)		1	No-load Current		1.39 A		
NEMA Nom. Eff.		86.5	Power Factor		80	Line-line Res. @ 25°C	15 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	58°C	
					Locked-rotor Power Factor	57	
					Rotor inertia	0.188 lb-ft²	

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	34	54	68	76	81	84
Efficiency	77	84.7	86.6	86.3	85.3	83.7
Speed	1791	1783	1775	1766	1757	1745
Line amperes	1.45	1.64	1.93	2.29	2.74	3.19

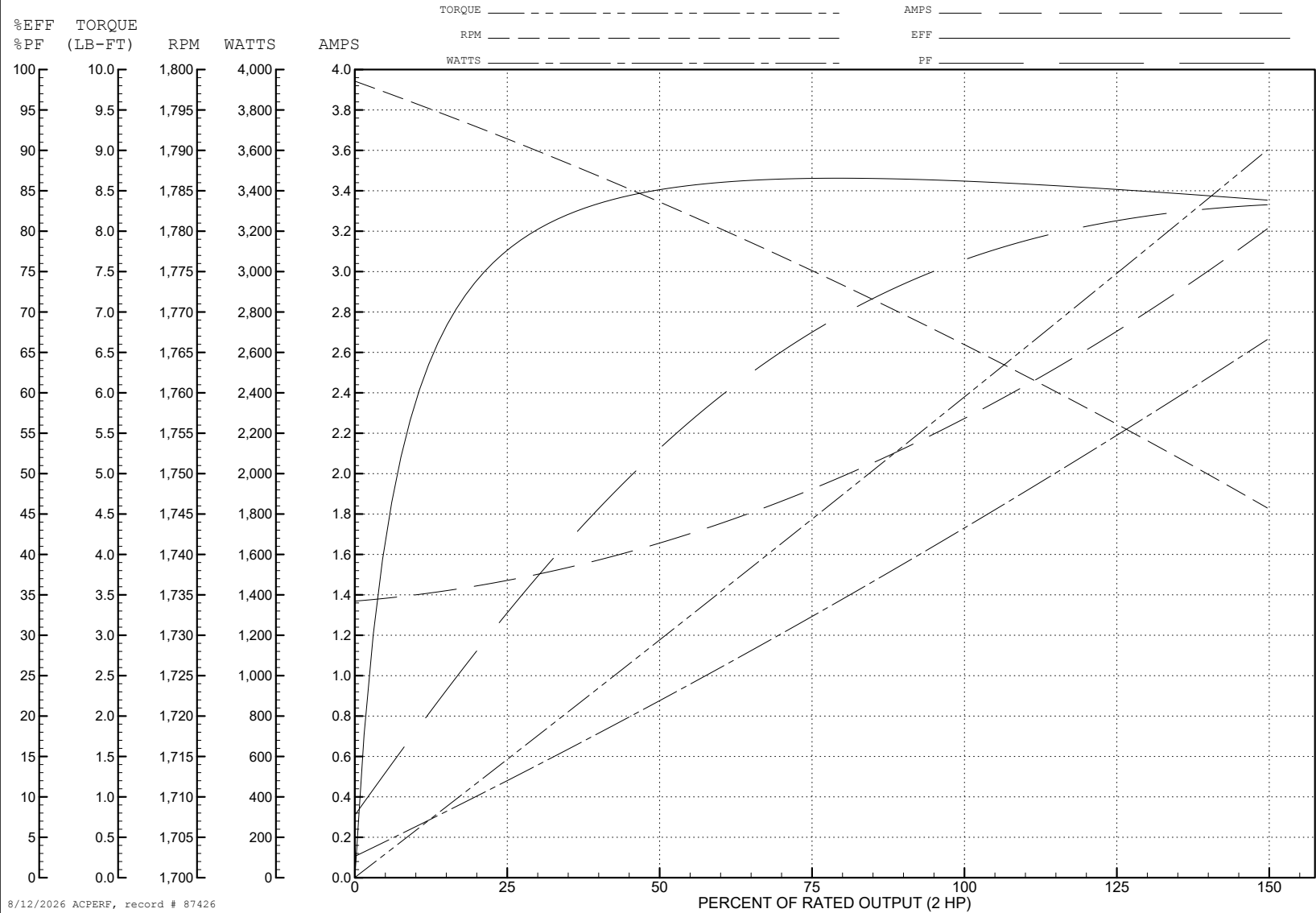
ABB Motors and Mechanical Inc.

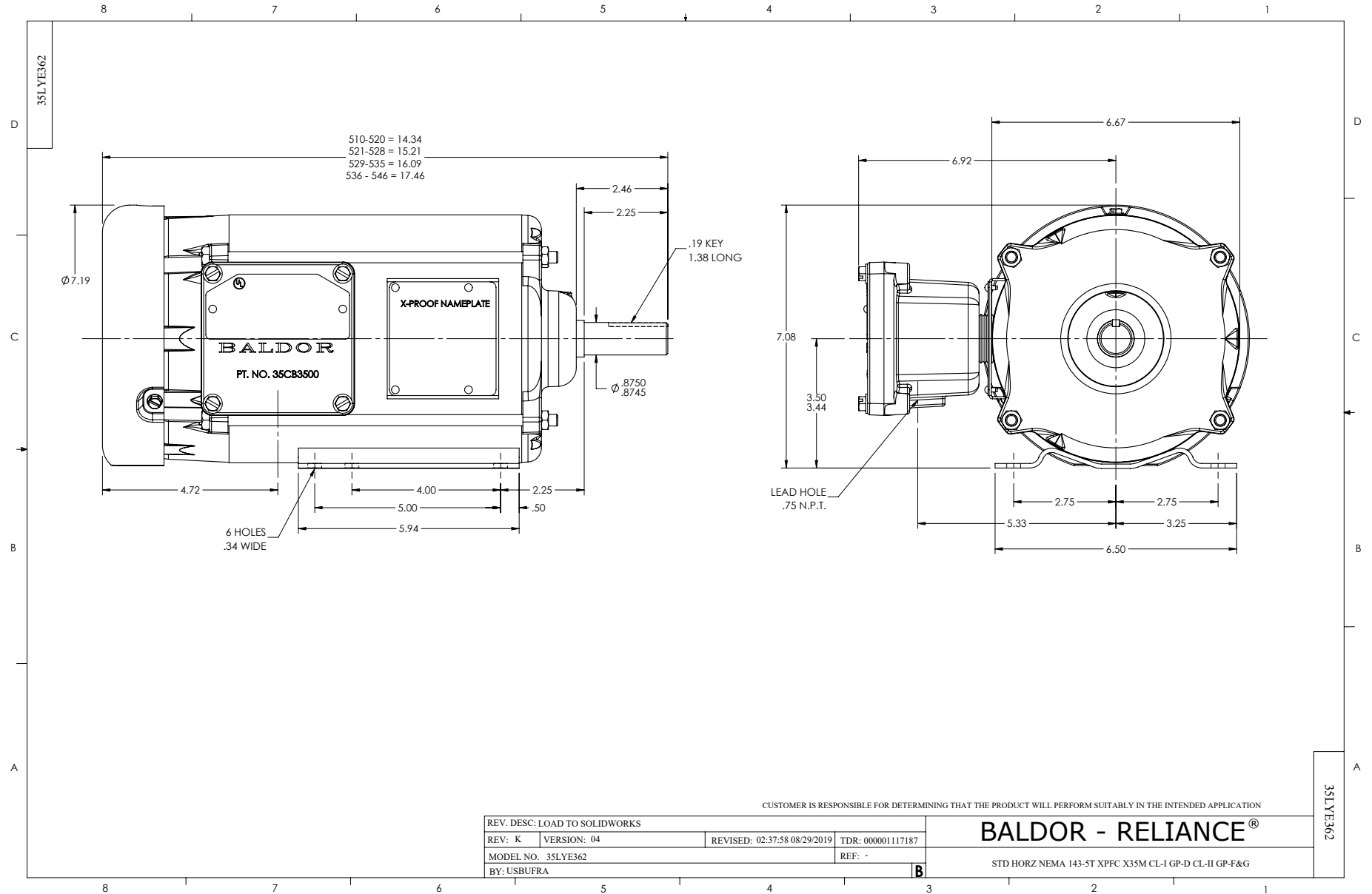
WINDING # 35WGG113

Typical performance - not guaranteed values.

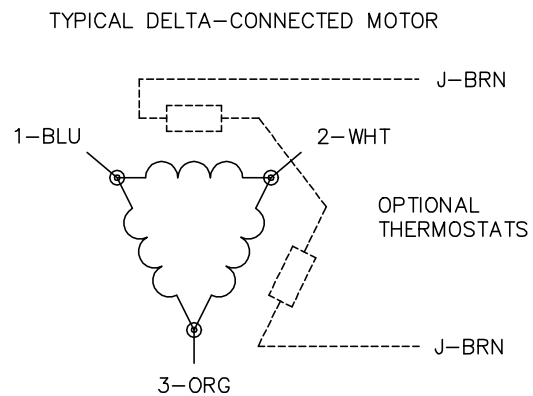
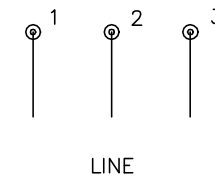
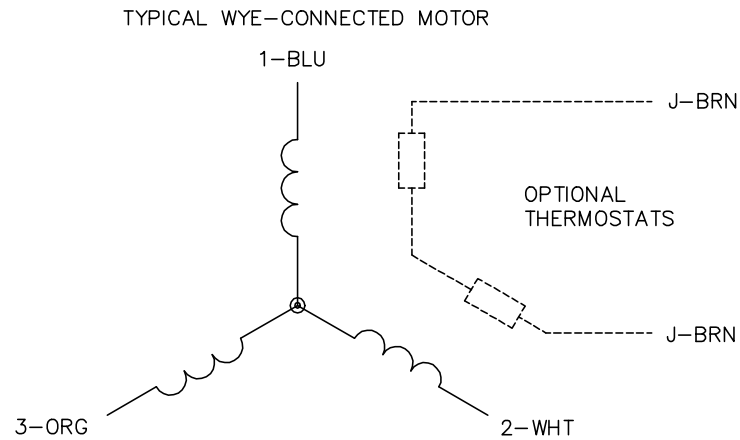
2 HP 3 PH 60 HZ 1764 RPM 575 V 3528M

TORQUES (LB-FT): PO=23.7 PU=14.43 LR=17.45 LRA=19.89





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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