

ABB BALDOR RELIANCE III

Customer information packet

EM3157T-8G

2HP, 1755RPM, 3PH, 60HZ, 145T, 3528M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR 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	6.000 A @ 200.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a
Insulation Class	H

Part Detail

Revision	G
Type	AC
Mech. spec.	35Z069
Base	
Status	PRD/A
Elec. spec.	35WGG112
Layout	35LYZ069
Eff. date	09-19-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-10-2022

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.13 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553L									
CAT.NO.	EM3157T-8G								
SPEC	35Z069G112G1								
HP	2								
VOLTS	200								
AMPS	6.7								
RPM	1765								
FRAME	145T		HZ	60			PH	3	
SF	1.15	CODE	L	DES	B	CLASS		H	
NEMA NOM. EFF	86.5	PF	74						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6205		ODE	6203					
VPWM INVERTER READY		SFA 7.2							
CT30-60(2:1) VT3-60(20:1)									

AC Induction Motor Performance Data

Record # 81992

Typical performance - not guaranteed values

Winding: 35WGG112-R002			Type: 3528M		Enclosure: OPEN	
Nameplate Data			200 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2	Full Load Torque		5.95 LB-FT	
Volts		200	Start Configuration		direct on line	
Full Load Amps		6	Breakdown Torque		23.11 LB-FT	
R.P.M.		1755	Pull-up Torque		14 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	16.93 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	55.76 A	
Service Factor (S.F.)		1.15	No-load Current		3.84 A	
NEMA Nom. Eff.	86.5	Power Factor	82	Line-line Res. @ 25°C	1.92 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		58°C	
S.F. Amps			Temp. Rise @ S.F. Load		71°C	
			Locked-rotor Power Factor		56.9	
			Rotor inertia		0.202 lb-ft²	

Load Characteristics 200 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	69	77	81	84	77
Efficiency	77.5	85	86.7	86.4	85.1	83.5	85.8
Speed	1791	1783	1774	1765	1756	1744	1763
Line amperes	4.03	4.6	5.44	6.5	7.8	9.13	7.2

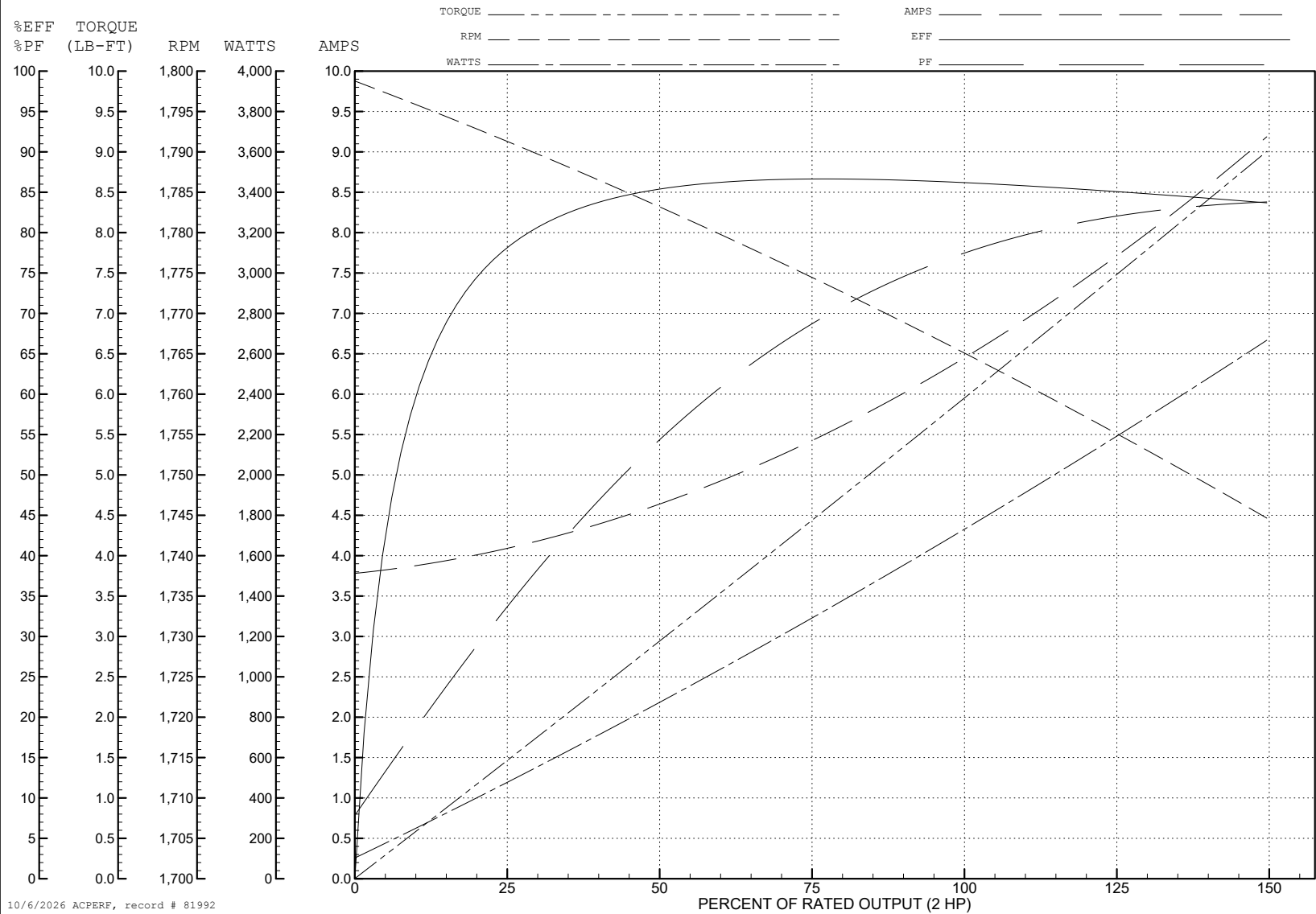
ABB Motors and Mechanical Inc.

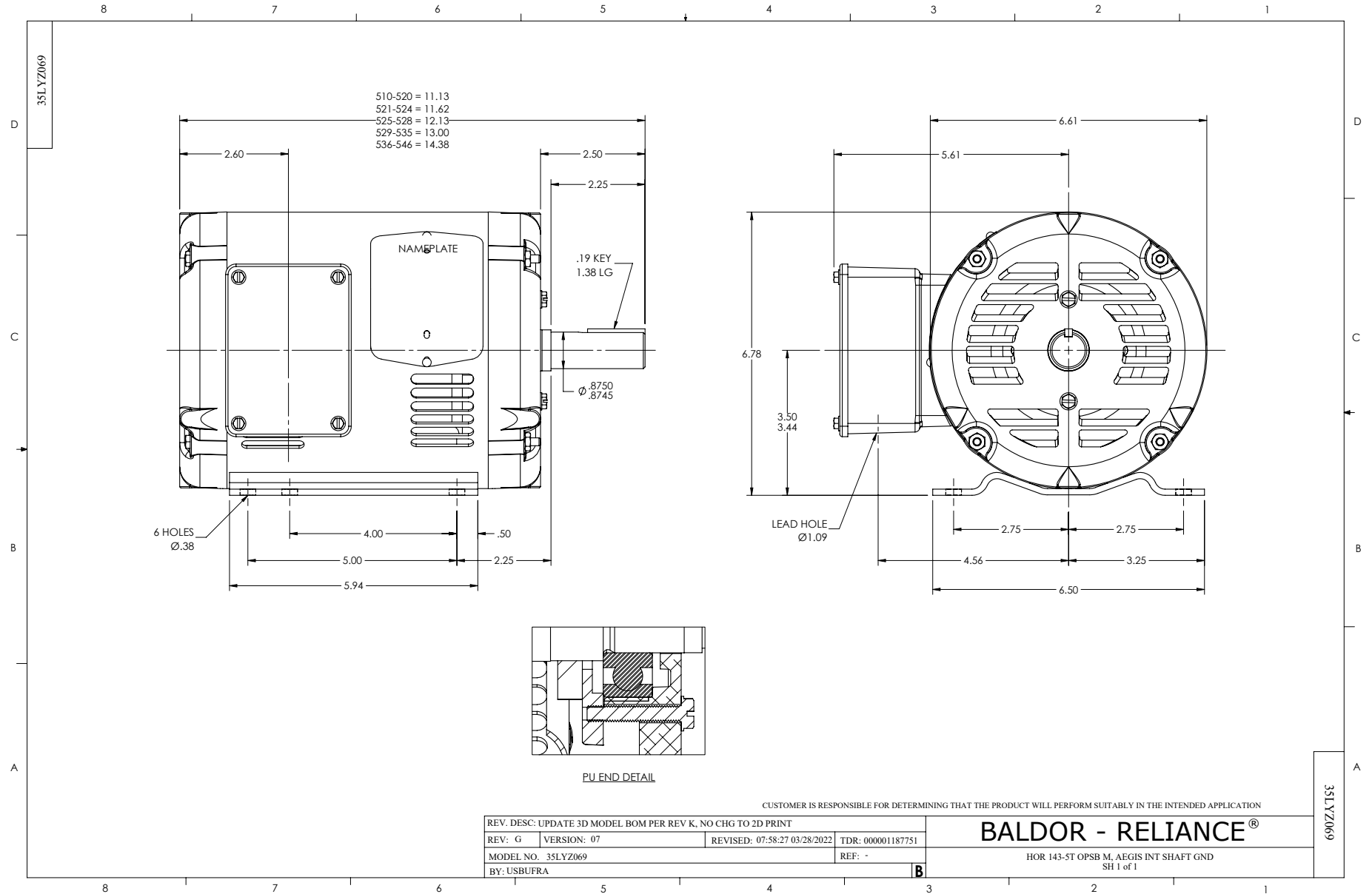
WINDING # 35WGG112

Typical performance - not guaranteed values.

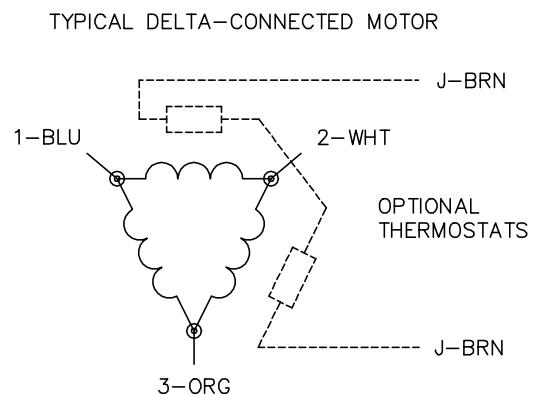
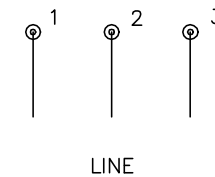
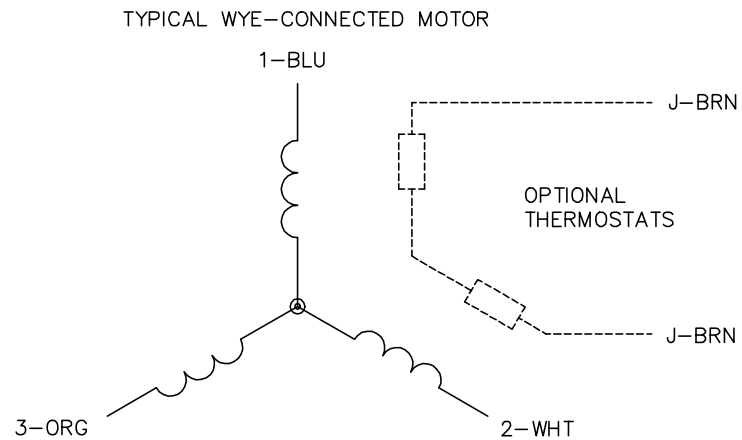
2 HP 3 PH 60 HZ 1755 RPM 200 V 3528M

TORQUES (LB-FT): PO=23.11 PU=14 LR=16.93 LRA=55.76





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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