

ABB BALDOR RELIANCE III

Customer information packet

EM3154T-8G

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, OPSB, F

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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
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	5.060 A @ 208.0 V 4.900 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	4.9 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35Z069
Base	
Status	PRD/A
Elec. spec.	35WGG121
Layout	35LYZ069
Eff. date	09-10-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
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	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.62 IN
Power Factor	75
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	1770 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.	EM3154T-8G								
SPEC	35Z069G121G1								
HP	1.5								
VOLTS	200								
AMPS	4.9								
RPM	1770								
FRAME	145T		HZ	60			PH	3	
SF	1.15	CODE	M	DES	B	CLASS		H	
NEMA NOM. EFF	86.5	PF	75						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6205		ODE	6203					
VPWM INVERTER READY		SFA 5.18							
CT30-60(2:1) VT3-60(20:1)									

AC Induction Motor Performance Data

Record # 87250

Preliminary Data Sheet

Winding: 35WGG121-R004			Type: 3524M		Enclosure: OPEN		
Nameplate Data			200 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		4.46 LB-FT		
Volts		200	Start Configuration		direct on line		
Full Load Amps		4.9	Breakdown Torque		18.41 LB-FT		
R.P.M.		1770	Pull-up Torque		9.82 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		12.07 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		44.32 A
Service Factor (S.F.)		1.15	No-load Current		2.94 A		
NEMA Nom. Eff.		86.5	Power Factor	75	Line-line Res. @ 25°C		2.28 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		39°C	
S.F. Amps				Temp. Rise @ S.F. Load		46°C	
				Locked-rotor Power Factor		60.3	
				Rotor inertia		0.173 lb-ft²	

Load Characteristics 200 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	75	81	84	83
Efficiency	77.2	85	87	87.3	86.7	85.5	86.3
Speed	1792	1786	1779	1771	1763	1754	1763
Line amperes	3.11	3.52	4.15	4.92	5.8	6.78	5.18

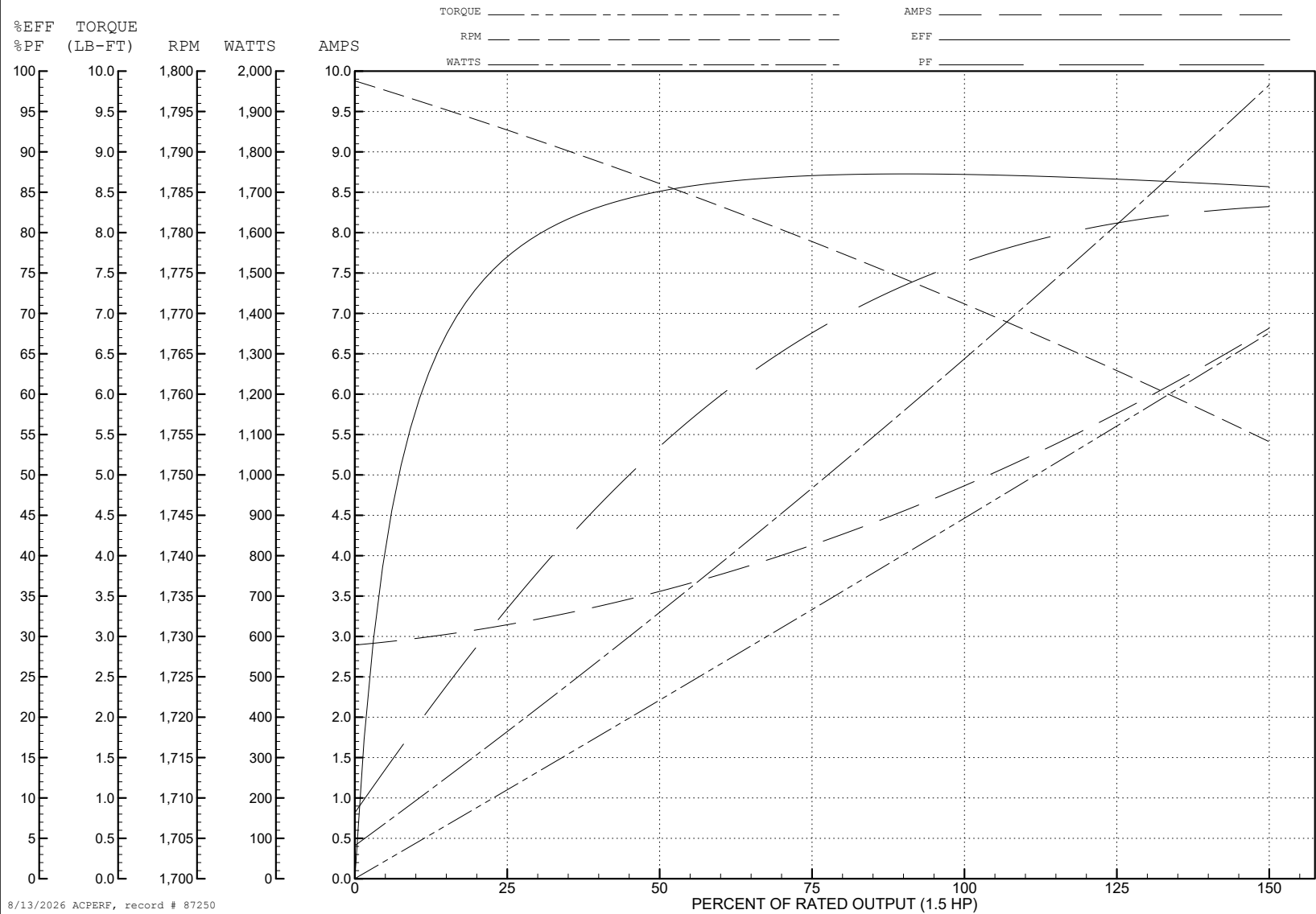
ABB Motors and Mechanical Inc.

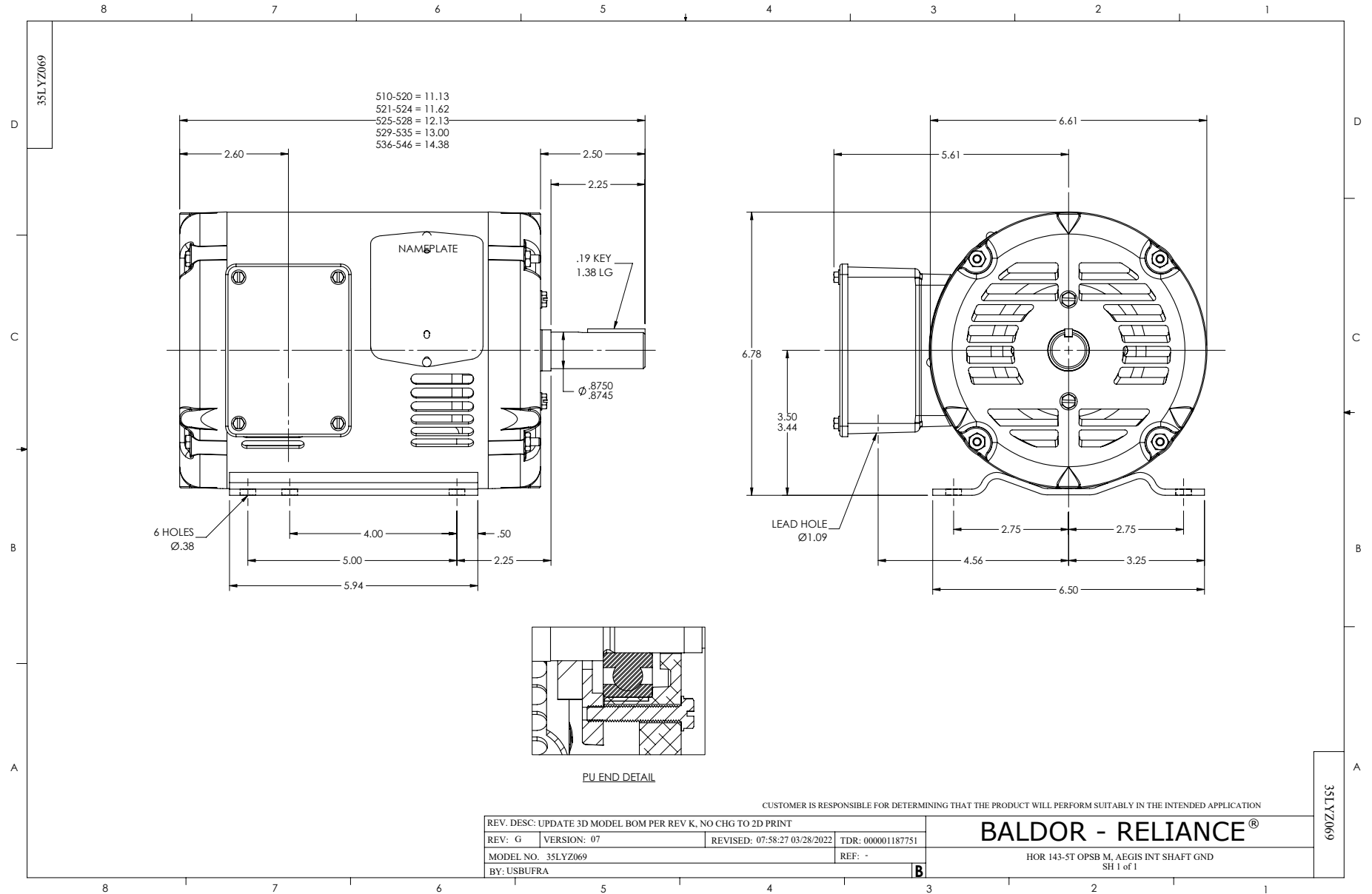
WINDING # 35WGG121

Typical performance - not guaranteed values.

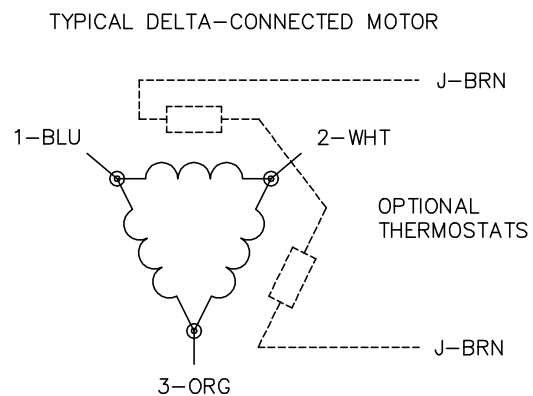
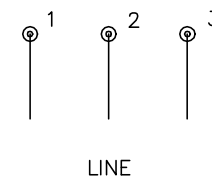
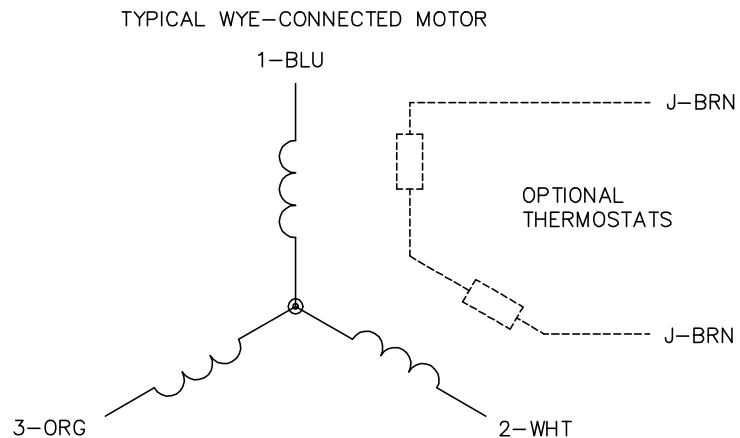
1.5 HP 3 PH 60 HZ 1770 RPM 200 V 3524M

TORQUES (LB-FT): PO=18.41 PU=9.82 LR=12.07 LRA=44.32





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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