

ABB BALDOR RELIANCE III

Customer information packet

EM3546T-5

1HP, 1774RPM, 3PH, 60HZ, 143T, 3522M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	35AA001
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYAA001
Eff. date	10-28-2025
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	08-16-2019

KVA Code	M
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	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.28 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP3441L									
CAT.NO.	EM3546T-5								
SPEC.	35AA001G119G1								
HP	1								
VOLTS	575								
AMP	1.3								
RPM	1775								
FRAME	143T		HZ		60		PH		3
SER.F.	1.15	CODE		M	DES	B	CL	F	
NEMA-NOM-EFF	85.5	PF		70					
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE		6203				
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
SFA 1.4									

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 99012

Typical performance - not guaranteed values

Winding: 35WGG119-R001			Type: 3522M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.3	Breakdown Torque		13.4 LB-FT	
R.P.M.		1775	Pull-up Torque		6.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	8.3 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	10.9 A	
Service Factor (S.F.)		1.15	No-load Current		0.87 A	
NEMA Nom. Eff.	85.5	Power Factor	70	Line-line Res. @ 25°C	30.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		36°C	
S.F. Amps		1.4	Temp. Rise @ S.F. Load		42°C	
			Locked-rotor Power Factor		63.4	
			Rotor inertia		0.159 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	61	70	76	80	74
Efficiency	72.1	81.6	84.9	85.8	85.7	85	85.7
Speed	1794	1787	1781	1774	1767	1758	1770
Line amperes	0.89	0.97	1.1	1.26	1.44	1.65	1.37

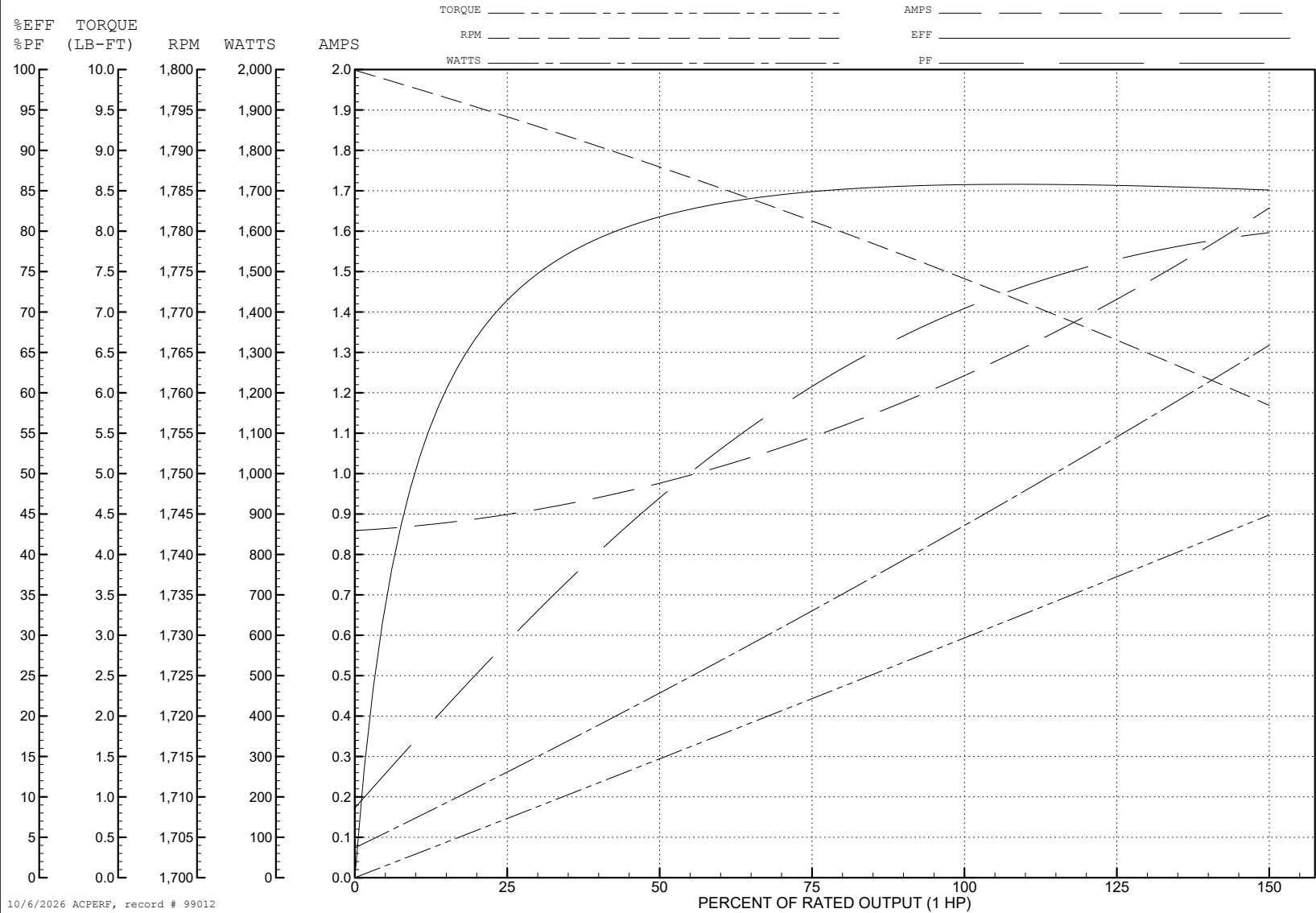
ABB Motors and Mechanical Inc.

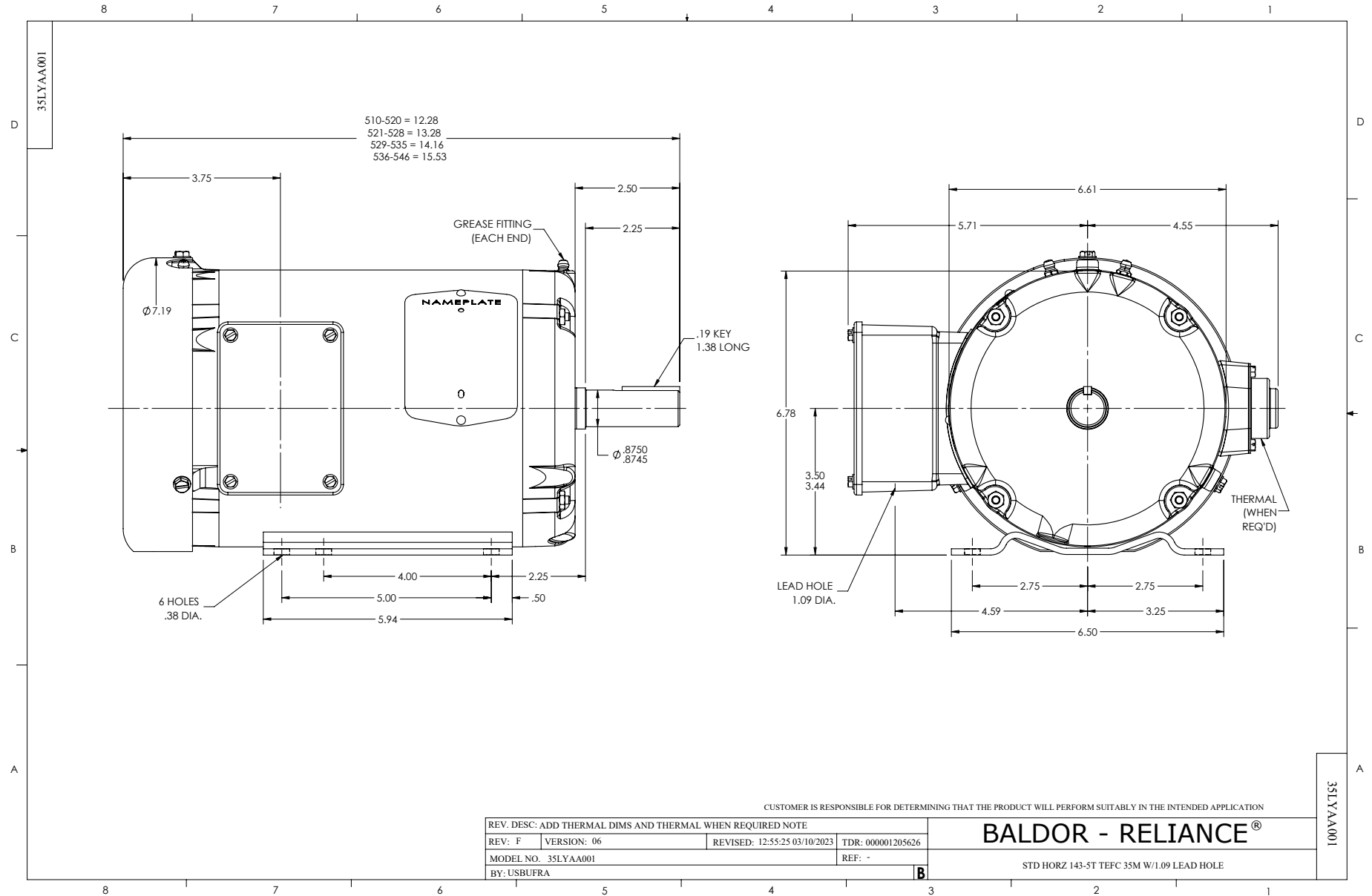
WINDING # 35WGG119

Typical performance - not guaranteed values.

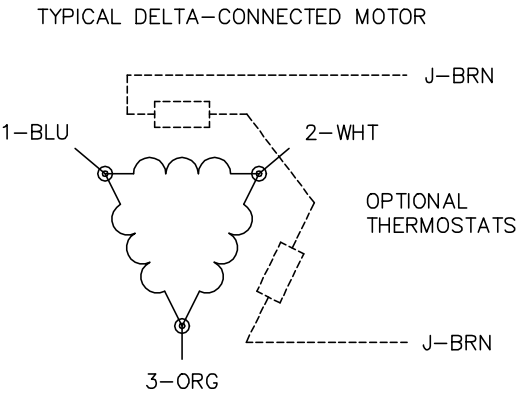
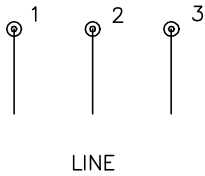
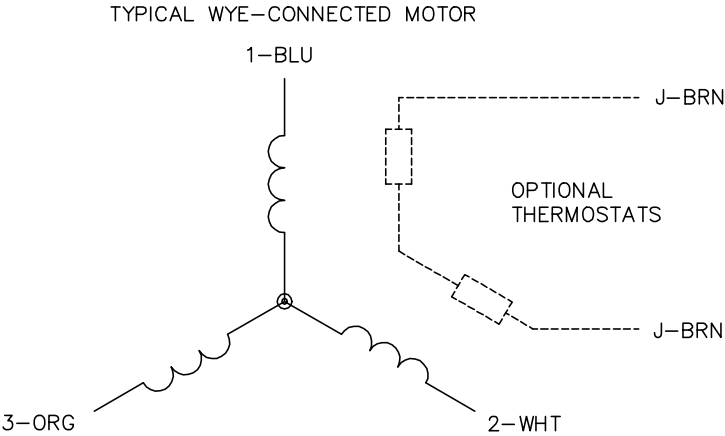
1 HP 3 PH 60 HZ 1775 RPM 575 V 3522M

TORQUES (LB-FT): PO=13.4 PU=6.8 LR=8.3 LRA=10.9





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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