ABB BALDOR RELIANCE

Customer information packet

EM3615T-8

5HP, 1750RPM, 3PH, 60HZ, 184T, 3642M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184T
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV 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	15.200 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	15.2 a
Insulation Class	F

Part Detail

Revision	J
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGS589
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-07-2015

Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.04 IN
Power Factor	78
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	EM3615T-8								
SPEC.	36A001S589G3								
HP	5								
VOLTS	200								
AMP	15.2								
RPM	1750								
FRAME	184T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data
Record # 49315
Typical performance - not guaranteed values

Winding: 36WGS589-R003	**Type:** 3642M	**Enclosure:** TEFC

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	14.9 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			15.2	**Breakdown Torque**	51.1 LB-FT
R.P.M.			1750	**Pull-up Torque**	30.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	111 A
Service Factor (S.F.)			1.15	**No-load Current**	7.29 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.447 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	40.2
				Rotor inertia	0.391 LB-FT2

Load Characteristics 200 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	72	79	83	84	81
Efficiency	85.2	89.7	90.4	89.4	88.4	86.7	88.8
Speed	1789	1776	1762	1749	1732	1713	1739
Line amperes	8.02	9.79	12.4	15.2	18.2	22.2	17

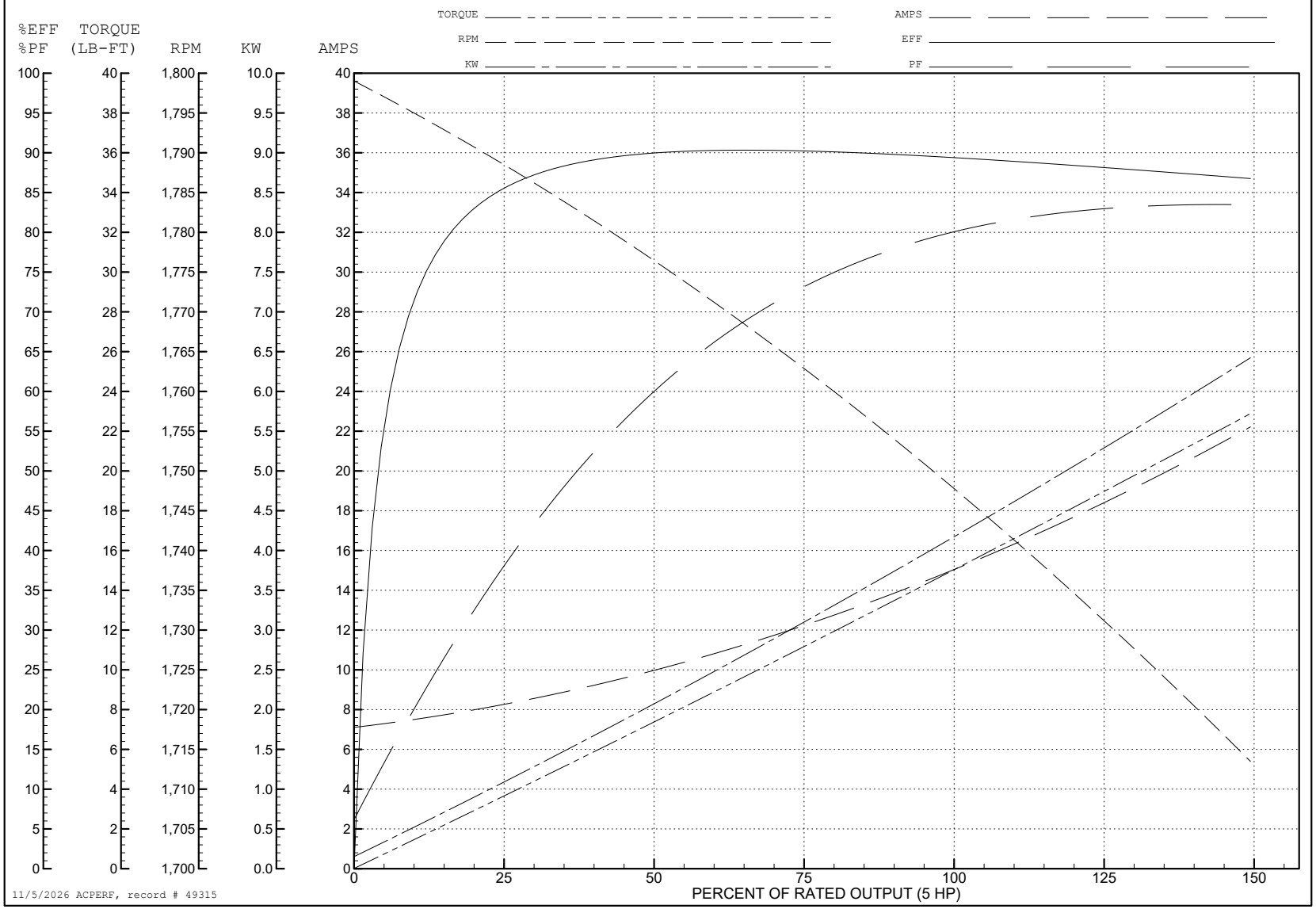
ABB Motors and Mechanical Inc.

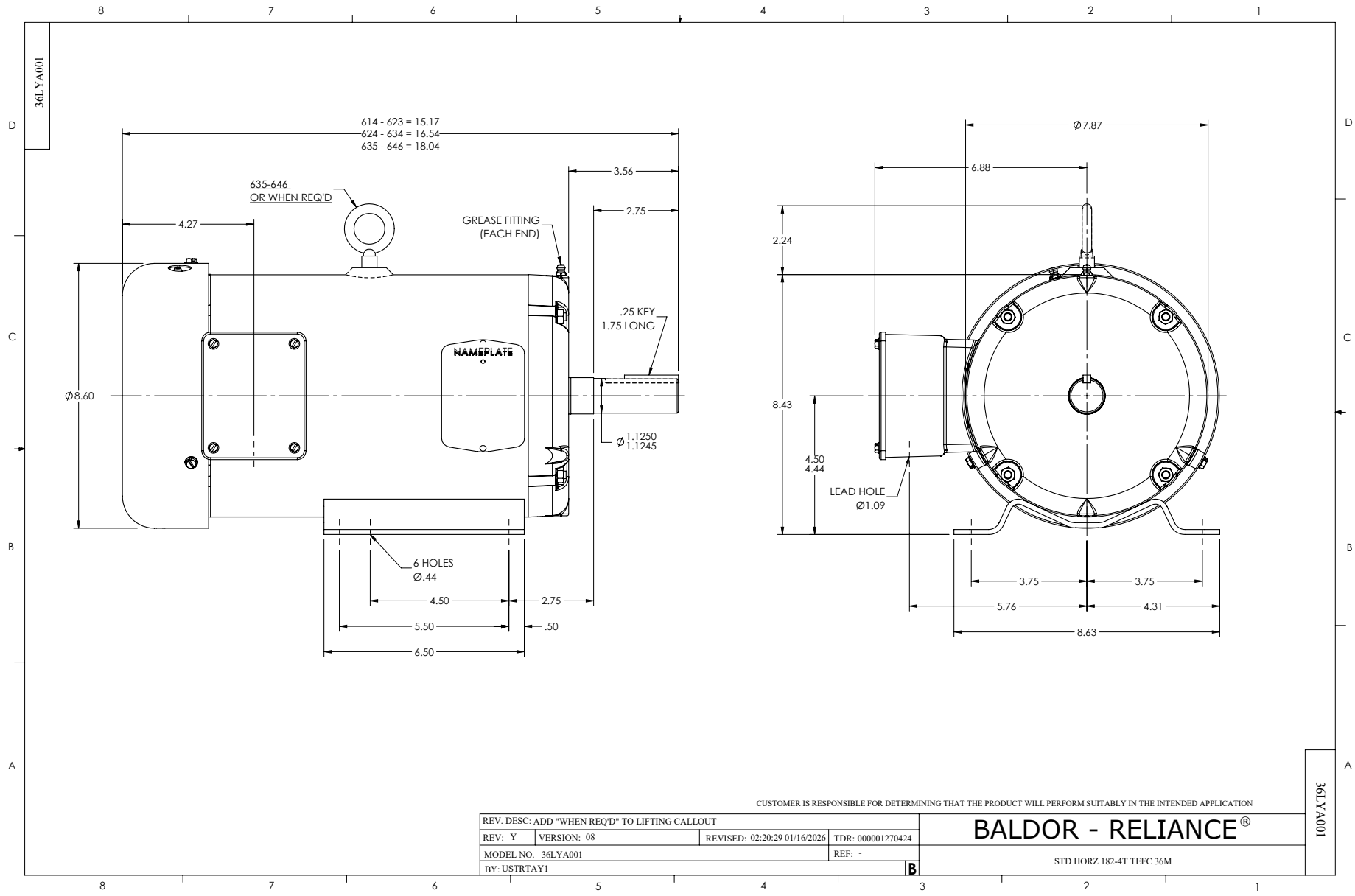
WINDING # 36WGS589

5 HP 3 PH 60 HZ 1750 RPM 200 V 3642M

Typical performance - not guaranteed values.

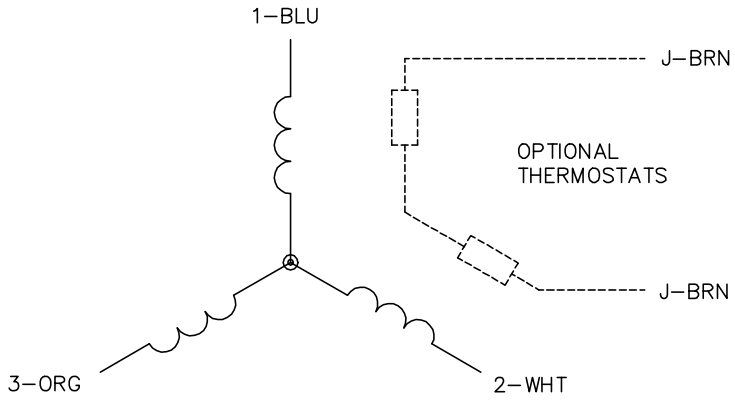
TORQUES(LB-FT): PO=51.1 PU=30.8 LR=34.1 LRA=111

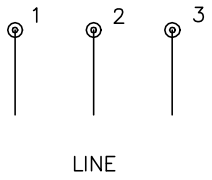



36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646
OR WHEN REQ'D
GREASE FITTING
(EACH END)
3.56
2.75
4.27
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD "WHEN REQ'D" TO LIFTING CALLOUT
REV: Y
VERSION: 08
REVISED: 02:20:29 01/16/2026
TDR: 000001270424
MODEL NO. 36LYA001
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

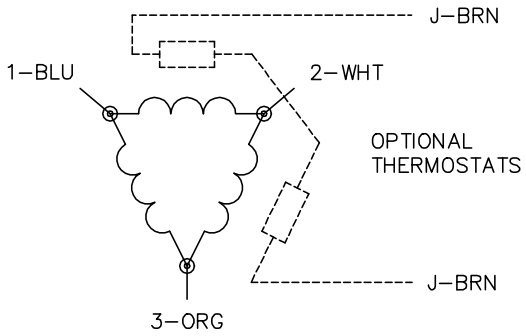
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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