

ABB BALDOR RELIANCE III

Customer information packet

EM3615T-8

5HP, 1750RPM, 3PH, 60HZ, 184T, 3642M, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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-FT ²

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

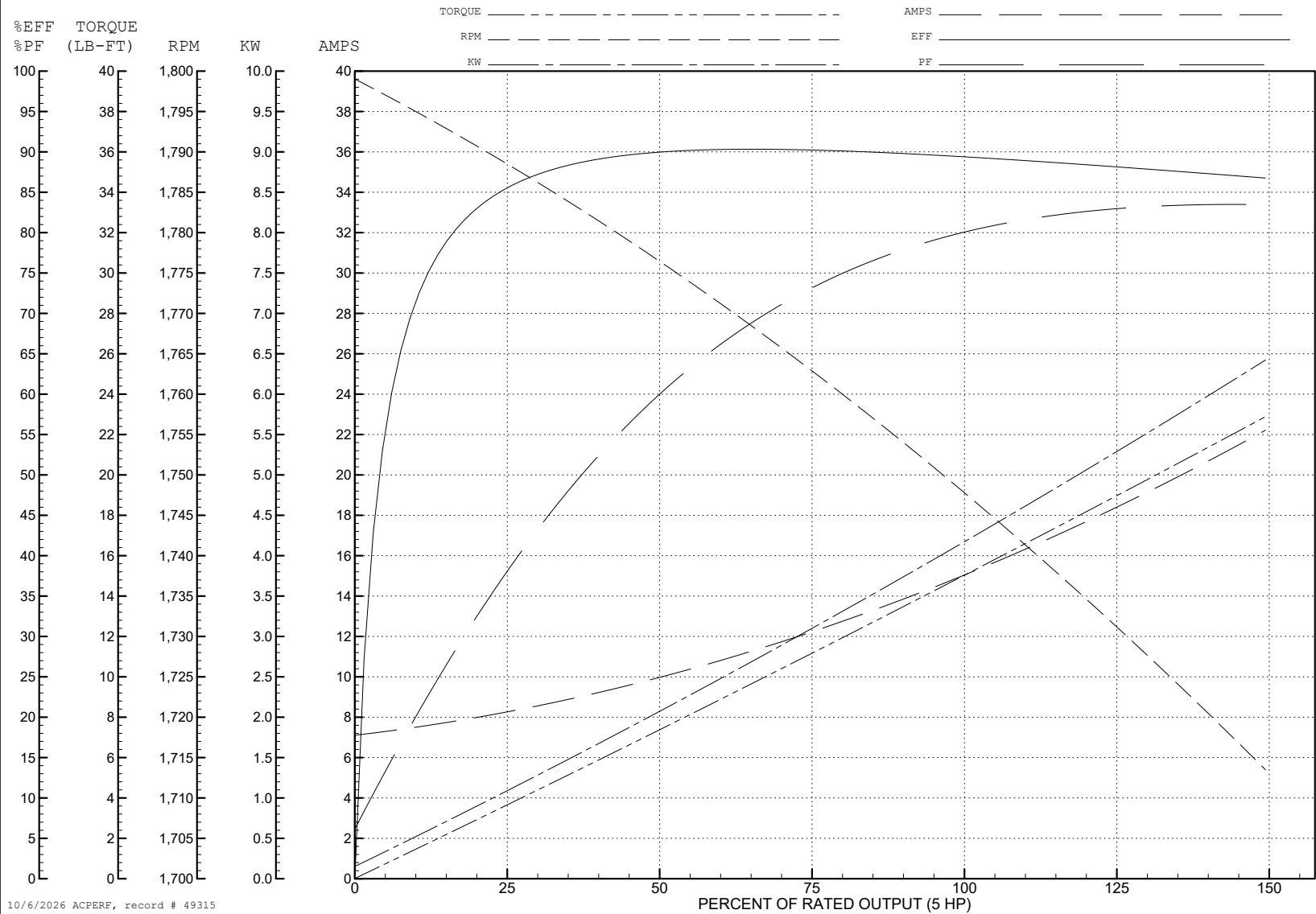
ABB Motors and Mechanical Inc.

WINDING # 36WGS589

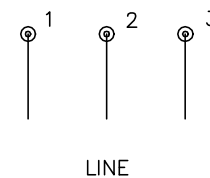
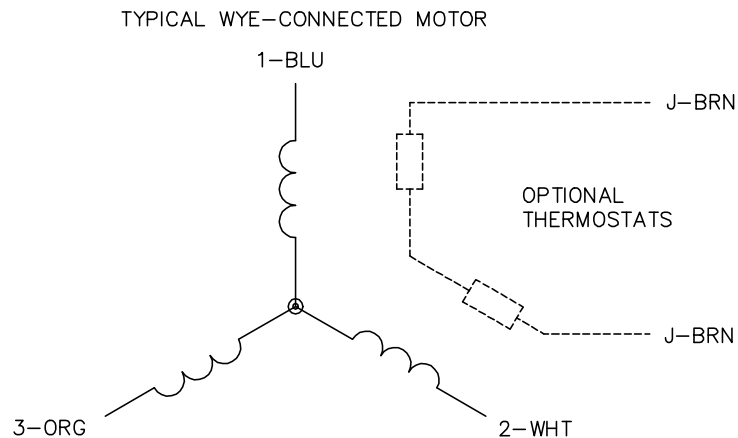
Typical performance - not guaranteed values.

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

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



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

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BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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