ABB BALDOR RELIANCE

Customer information packet

EM3314T-G

15HP, 3500RPM, 3PH, 60HZ, 215T, 3734M, OPSB, F1
Class - None
Division - Not Applicable

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11/12/2026 5:32:50 AM

Specifications

Enclosure	OPSB
Frame	215T
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	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	35.000 A @ 230.0 V
	17.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Z
Type	AC
Mech. spec.	37J839
Base	
Status	PRD/A
Elec. spec.	37WGS867
Layout	37LYJ839
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	12-14-2011

High Voltage Full Load Amps	17.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.32 IN
Power Factor	89
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP3553LUA									
CAT.NO.	EM3314T-G								
SPEC.	37J839S867G1								
HP	15								
VOLTS	230/460								
AMPS	35/17.5								
RPM	3500								
FRAME	215T	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	G	**DES**	B	**CLASS**	H		
NEMA NOM. EFF	90.2	**PF**	89						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SN**							
DE	6307	**ODE**	6206						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 15HP 190/380V 41.6/20.8A								SF1.0

AC Induction Motor Performance Data
Record # 48209
Typical performance - not guaranteed values

Winding: 37WGS867-R002	**Type:** 3734M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35/17.5	**Breakdown Torque**	92 LB-FT
R.P.M.			3500	**Pull-up Torque**	28.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	37.5 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	109 A
Service Factor (S.F.)			1.15	**No-load Current**	5.49 A
NEMA Nom. Eff.	90.2	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.675 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	32.8
				Rotor inertia	0.31 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	89	88	89
Efficiency	90.3	92.5	92.1	90.8	89.4	87.2	90
Speed	3572	3545	3515	3480	3441	3399	3457
Line amperes	6.69	9.59	13.2	17.3	22	27.3	20.1

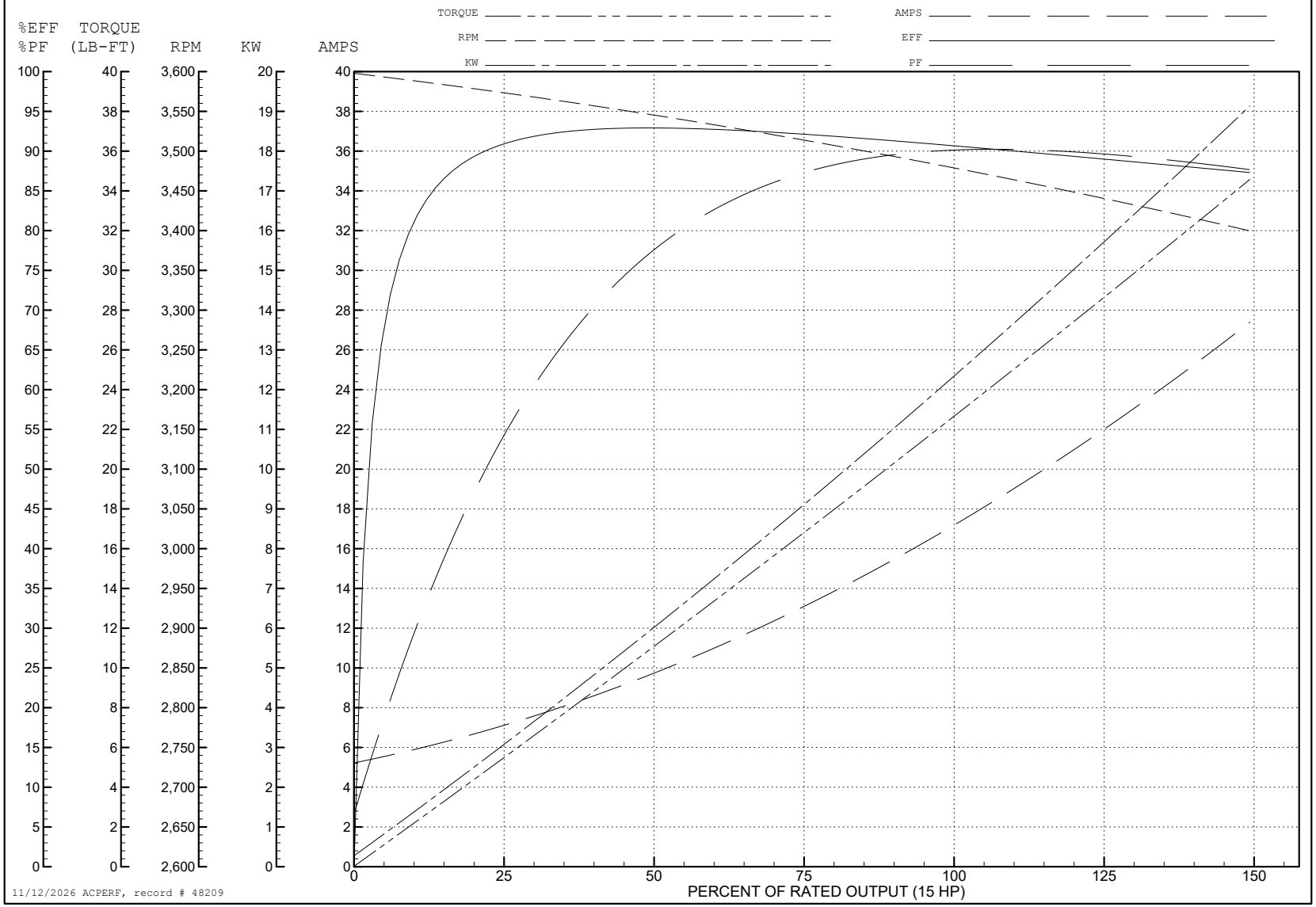
ABB Motors and Mechanical Inc.

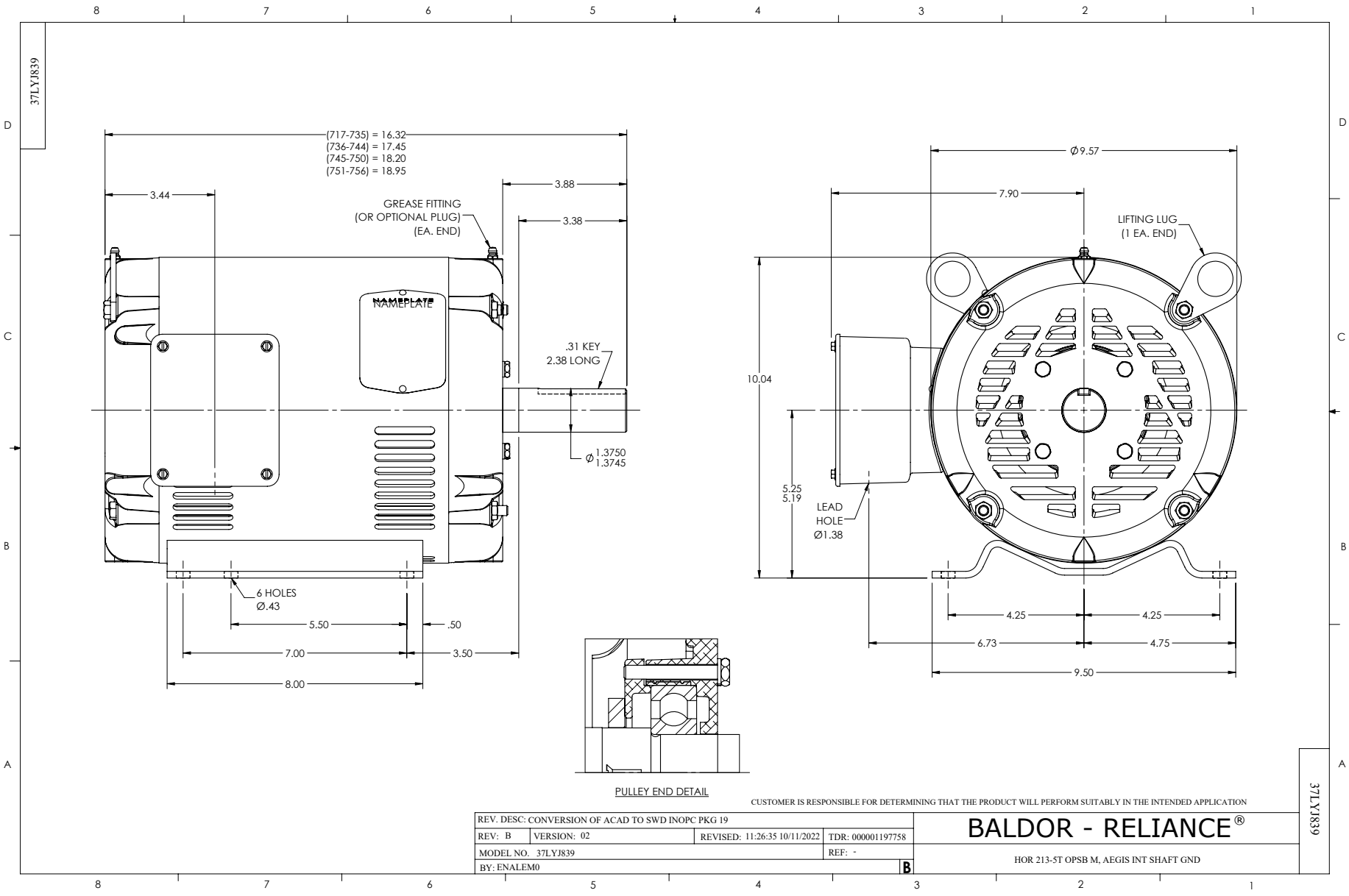
WINDING # 37WGS867

15 HP 3 PH 60 HZ 3500 RPM 460 V 3734M

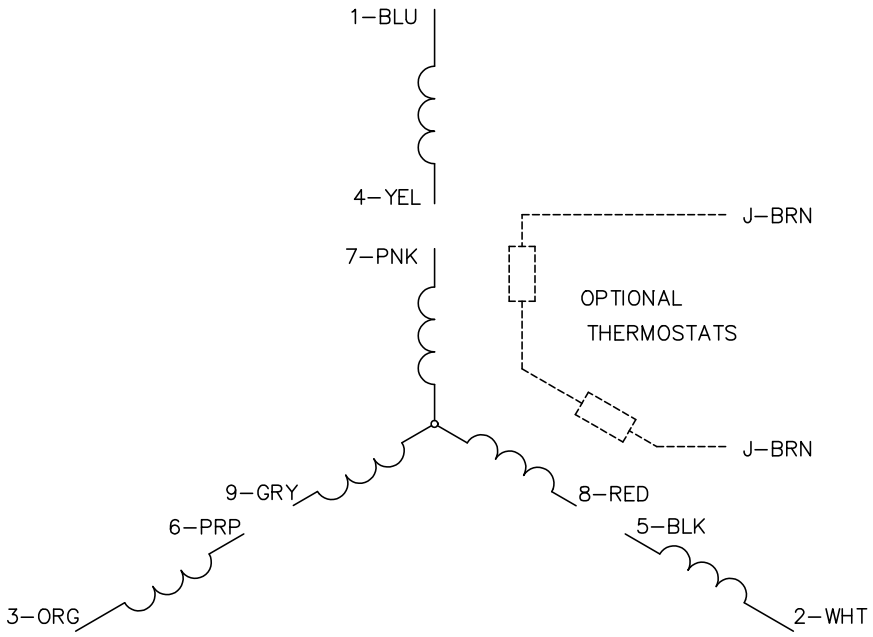
Typical performance - not guaranteed values.

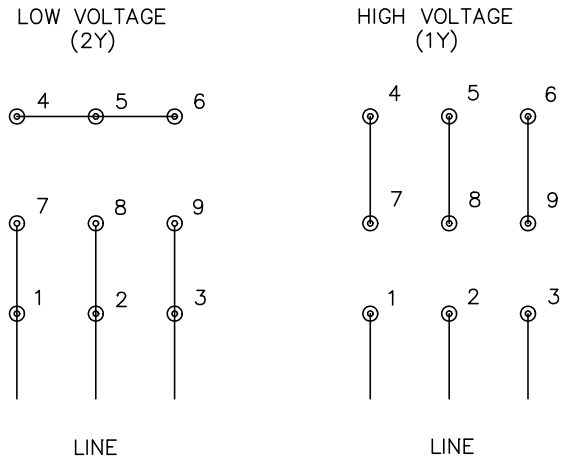
TORQUES(LB-FT): PO=92 PU=28.5 LR=37.5 LRA=109




37LYJ839
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
GREASE FITTING
(OR OPTIONAL PLUG)
(EA. END)
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.57
7.90
LIFTING LUG
(1 EA. END)
10.04
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
6.73
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: B
VERSION: 02
REVISED: 11:26:35 10/11/2022
TDR: 000001197758
MODEL NO. 37LYJ839
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5T OPSB M, AEGIS INT SHAFT GND
37LYJ839

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS