ABB BALDOR RELIANCE

Customer information packet

EM3309T

5HP, 1160RPM, 3PH, 60HZ, 215T, 3744M, OPSB, F1
Class - None
Division - Not Applicable

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11/12/2026 8:05:19 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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	15.200 A @ 208.0 V
	7.400 A @ 460.0 V
	14.800 A @ 230.0 V
Design Code	A
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

Part Detail

Revision	Y
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGS521
Layout	37LYF614
Eff. date	05-11-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-11-2008

Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3744M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.45 IN
Power Factor	71
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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

NP1259LUA										
CAT.NO.	EM3309T									
SPEC.	37F614S521G1									
HP	5									
VOLTS	230/460									
AMPS	14.8/7.4									
R.P.M.	1160									
FRAME	215T	**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F			
NEMA NOM. EFF.	89.5	**P.F.**	71							
RATING	40C AMB-CONT									
CC	010A									
DE	6307	**ODE**	6206							
ENCL	OPSB	**SN**								
USABLE AT	50HZ 5HP 190/380V 17.2/8.6A									SF1.0

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

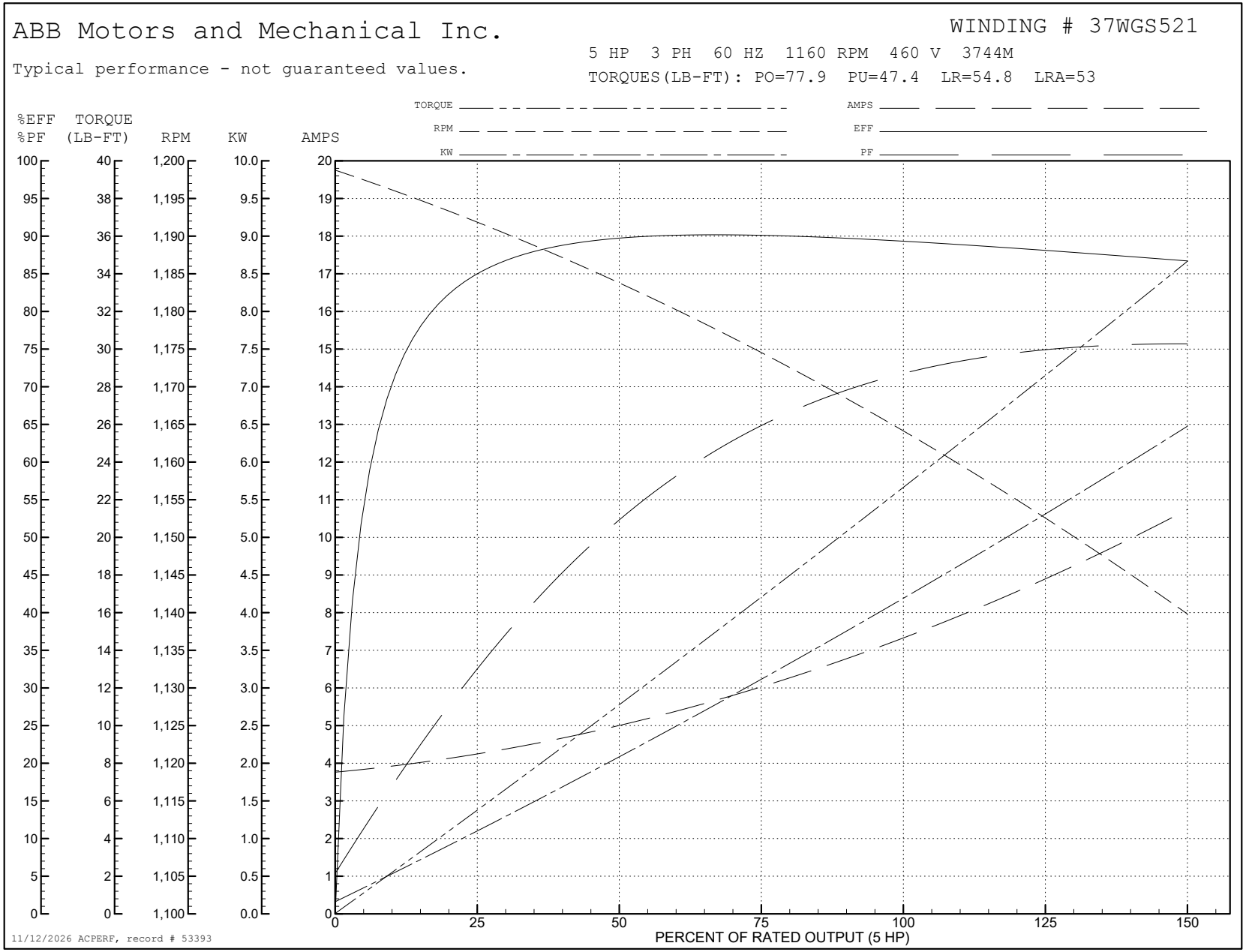
AC Induction Motor Performance Data
Record # 53393
Typical performance - not guaranteed values

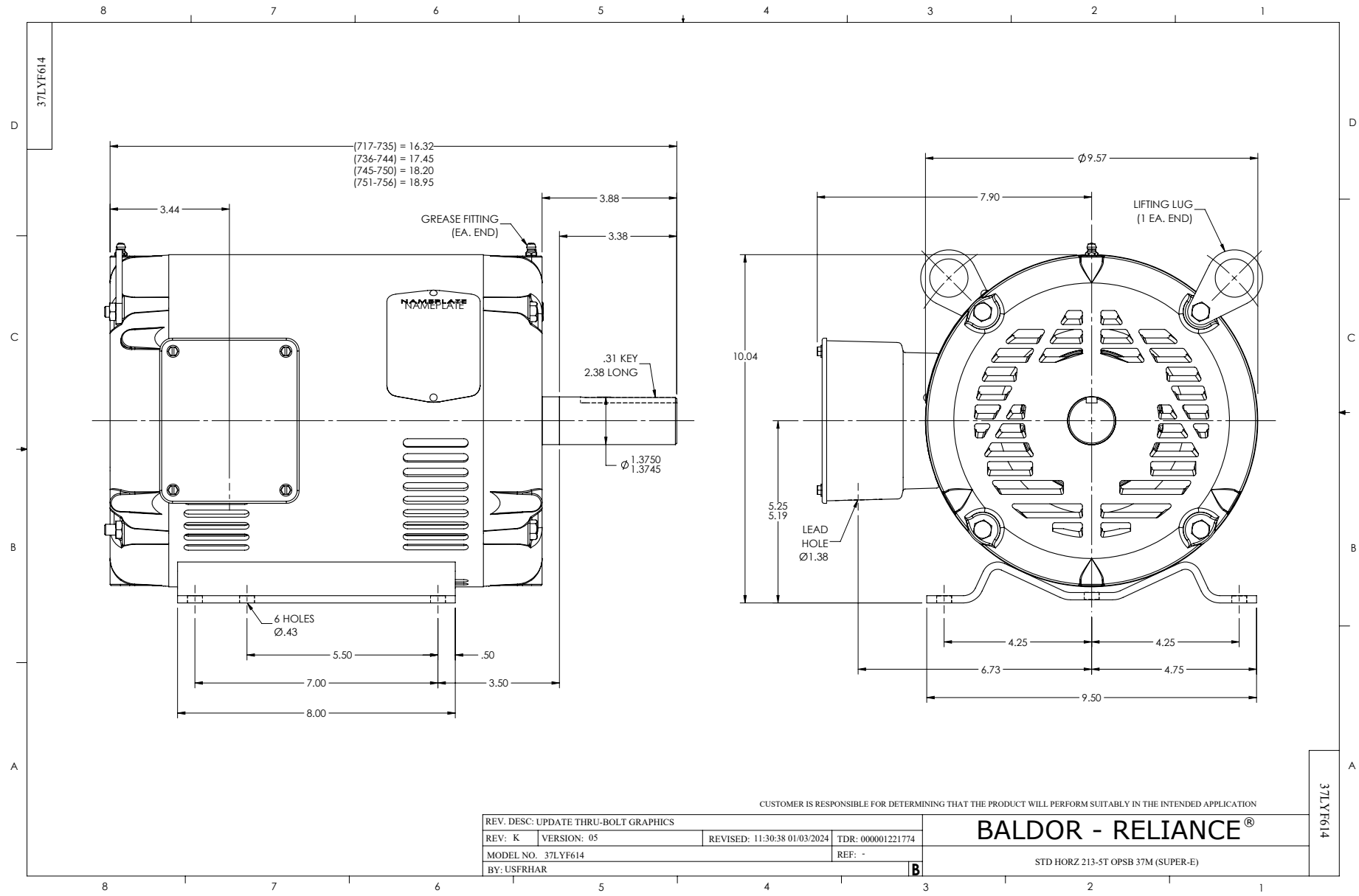
Winding: 37WGS521-R008	**Type:** 3744M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	22.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14.8/7.4	**Breakdown Torque**	77.9 LB-FT
R.P.M.			1160	**Pull-up Torque**	47.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	54.8 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	53 A
Service Factor (S.F.)			1.15	**No-load Current**	3.84 A
NEMA Nom. Eff.	89.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	1.7514 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	23
				Rotor inertia	1.09 LB-FT2

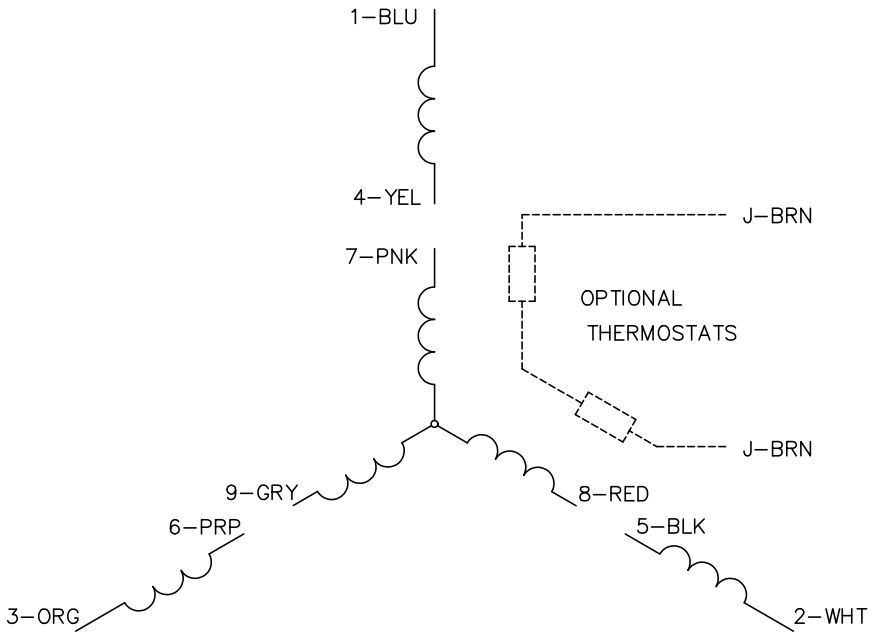
Load Characteristics 460 V, 60 Hz, 5 HP

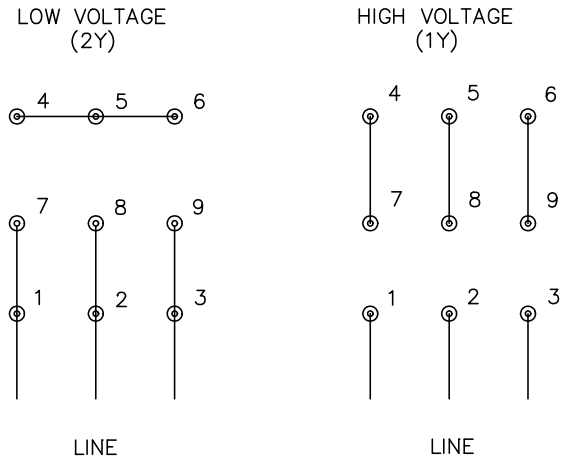
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	65	71	74	76	73
Efficiency	84.5	89.4	90.1	89.5	88.3	86.5	88.8
Speed	1191.9	1183.8	1173.7	1164.6	1153.5	1139.2	1158
Line amperes	4.14	4.95	6.08	7.36	8.92	10.7	8.3


ABB Motors and Mechanical Inc.
WINDING # 37WGS521
5 HP 3 PH 60 HZ 1160 RPM 460 V 3744M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=77.9 PU=47.4 LR=54.8 LRA=53
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/12/2026 ACPERF, record # 53393


37LYF614
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
GREASE FITTING
(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
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE THRU-BOLT GRAPHICS
REV: K
VERSION: 05
REVISED: 11:30:38 01/03/2024
TDR: 000001221774
MODEL NO. 37LYF614
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
STD HORZ 213-5T OPSB 37M (SUPER-E)
37LYF614

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