ABB BALDOR RELIANCE

Customer information packet

GNEM3615T-G

5HP, 1750//1440RPM, 3PH, 60//50HZ, 184T, 3646
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 9:58:59 AM

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CE
	CSA
	UR
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	7.700 A @ 380.0 V
	6.600 A @ 460.0 V
	15.400 A @ 190.0 V
	14.000 A @ 208.0 V
	13.000 A @ 230.0 V
Design Code	A

Part Detail

Revision	K
Type	AC
Mech. spec.	36M524
Base	
Status	PRD/A
Elec. spec.	36WGR014
Layout	36LYM524
Eff. date	04-25-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-26-2017

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
High Voltage Full Load Amps	6.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
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	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1440 rpm
	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

NP2716L											
CAT NO	GNEM3615T-G										
SPEC.	36M524R014G1										
HP	5/3.7KW					**PH**	3				
VOLTS	208-230/460//190/380										
AMP	14-13/6.6//15.4/7.7										
R.P.M. (1/MIN)	1750//1440										
FRAME	184T		**HZ**	60//50			**I.P.**	44			
SER.F.	1.15	**CODE**	L	**DES**	A		**CL**	H			
NOM.EFF.	90.2//88.6			**% (100%)**							
PF	78		IC411 46KG								
RATING	40C AMB-S1 CONT					**CC**	010A				
DE BRG	6206		**ODE**	6205							
ENCL	TEFC	**SN**									
BLANK	IE3-60HZ-90.4(75%)89.3(50%)										
	IE3-50HZ-89.8(75%)89.7(50%)										

AC Induction Motor Performance Data
Record # 62751
Typical performance - not guaranteed values

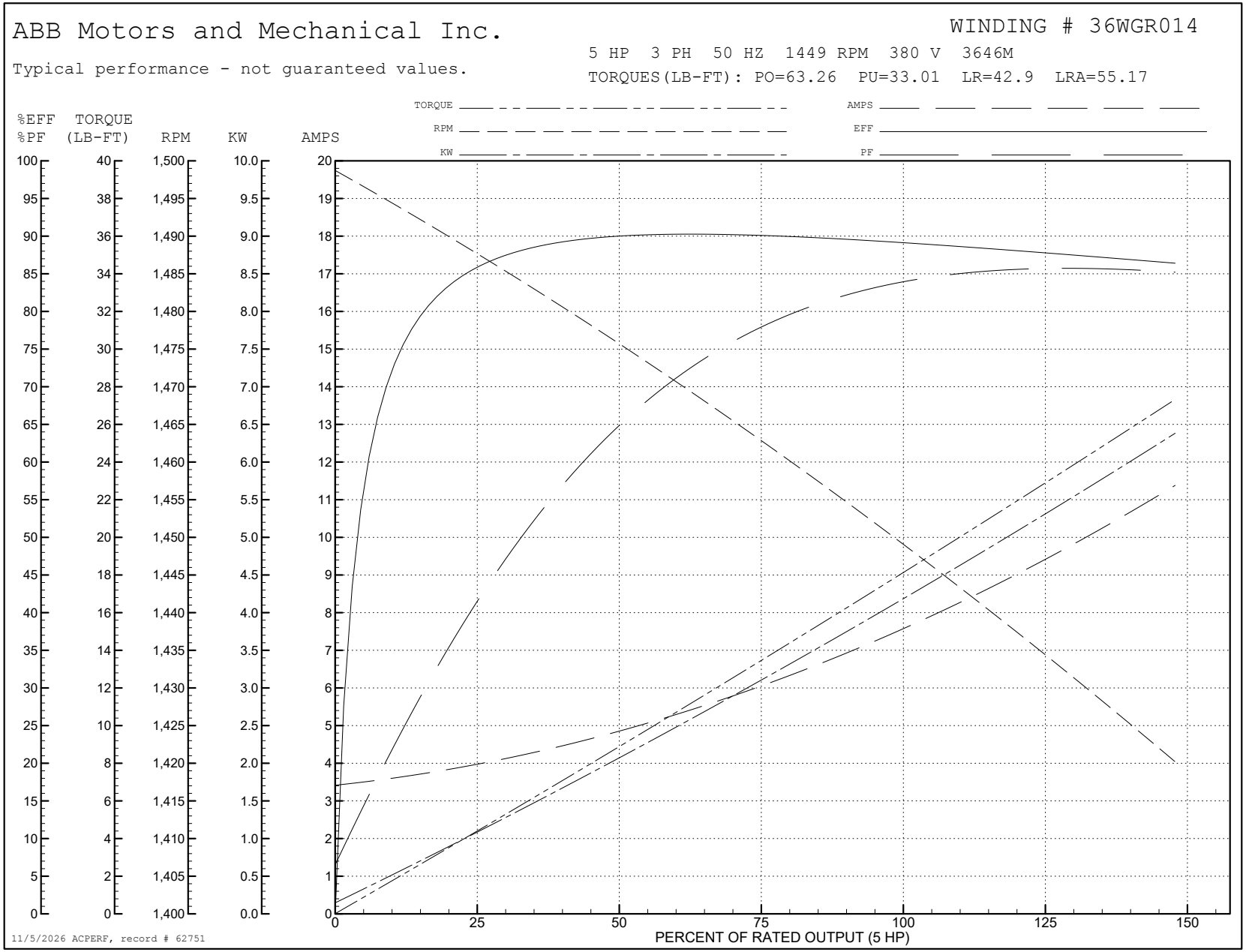
Winding: 36WGR014-R013	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5
Volts			208-230/460//190/380
Full Load Amps			14-13/6.6//15.4/7.7
R.P.M.			1750//1440
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	90.2	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	18.16 LB-FT
Start Configuration	direct on line
Breakdown Torque	63.26 LB-FT
Pull-up Torque	33.01 LB-FT
Locked-rotor Torque	42.9 LB-FT
Starting Current	55.17 A
No-load Current	3.5 A
Line-line Res. @ 25ºC	2.03 Ω
Temp. Rise @ Rated Load	76°C
Temp. Rise @ S.F. Load	95°C
Locked-rotor Power Factor	51.6
Rotor inertia	0.427 LB-FT2

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	67	78	83	85	86	84
Efficiency	85.8	89.8	89.8	89.4	88	86.3	88.6
Speed	1487	1475	1463	1449	1435	1420	1441
Line amperes	3.89	4.81	6.12	7.67	9.38	11.33	8.7


ABB Motors and Mechanical Inc.
WINDING # 36WGR014
Typical performance - not guaranteed values.
5 HP 3 PH 50 HZ 1449 RPM 380 V 3646M
TORQUES(LB-FT): PO=63.26 PU=33.01 LR=42.9 LRA=55.17
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/5/2026 ACPERF, record # 62751

AC Induction Motor Performance Data
Record # 62752
Typical performance - not guaranteed values

Winding: 36WGR014-R013	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5
Volts			208-230/460//190/380
Full Load Amps			14-13/6.6//15.4/7.7
R.P.M.			1750//1440
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	90.2	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	67.5 LB-FT
Pull-up Torque	32.7 LB-FT
Locked-rotor Torque	42.5 LB-FT
Starting Current	58.2 A
No-load Current	3.55 A
Line-line Res. @ 25ºC	2.03 Ω
Temp. Rise @ Rated Load	59°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	51.6
Rotor inertia	0.427 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	59	71	78	82	83	80
Efficiency	84.4	89.5	90.4	90.7	90	89	90.3
Speed	1788	1778	1768	1756	1745	1733	1749
Line amperes	3.84	4.51	5.47	6.63	7.89	9.34	7.39

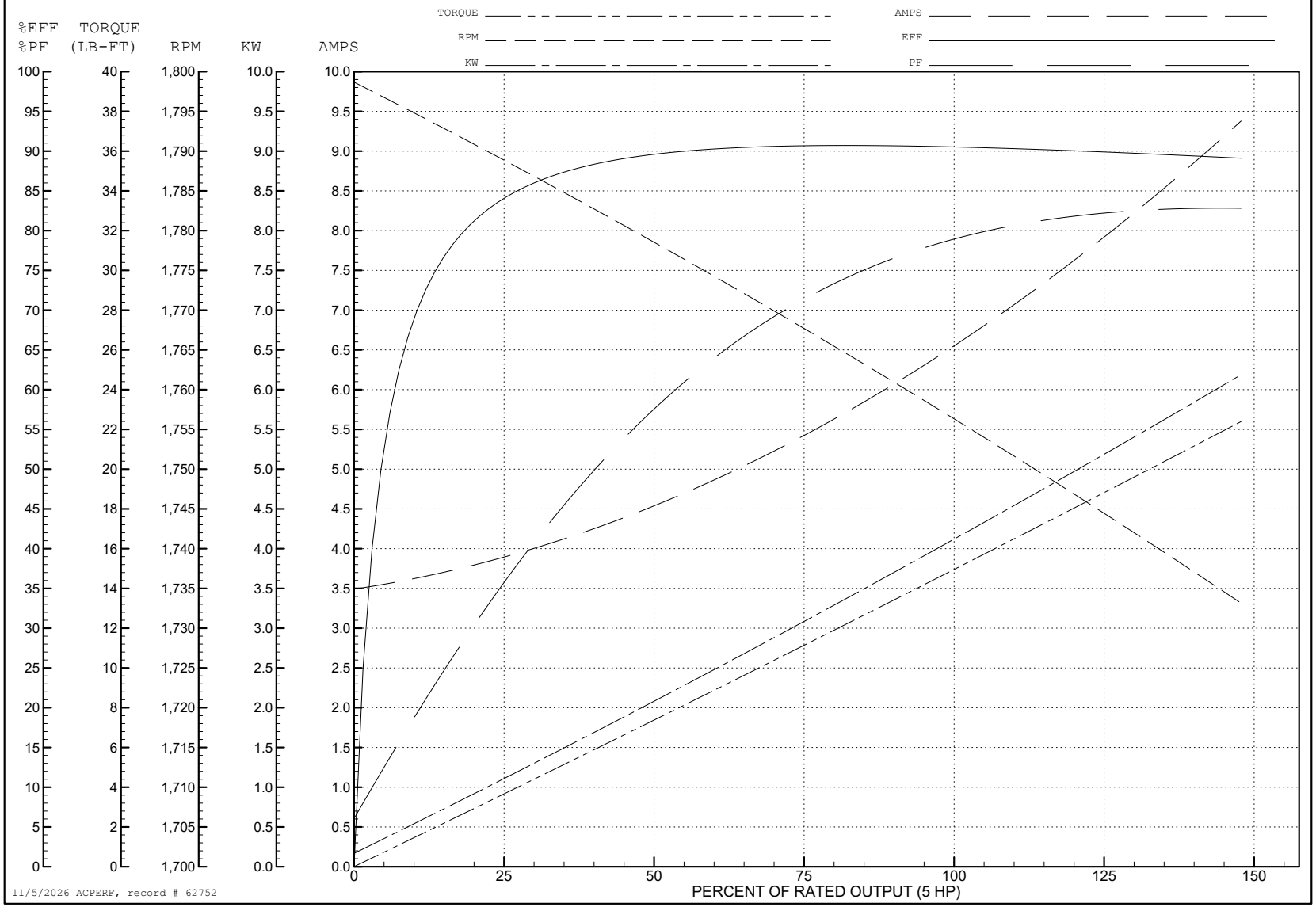
ABB Motors and Mechanical Inc.

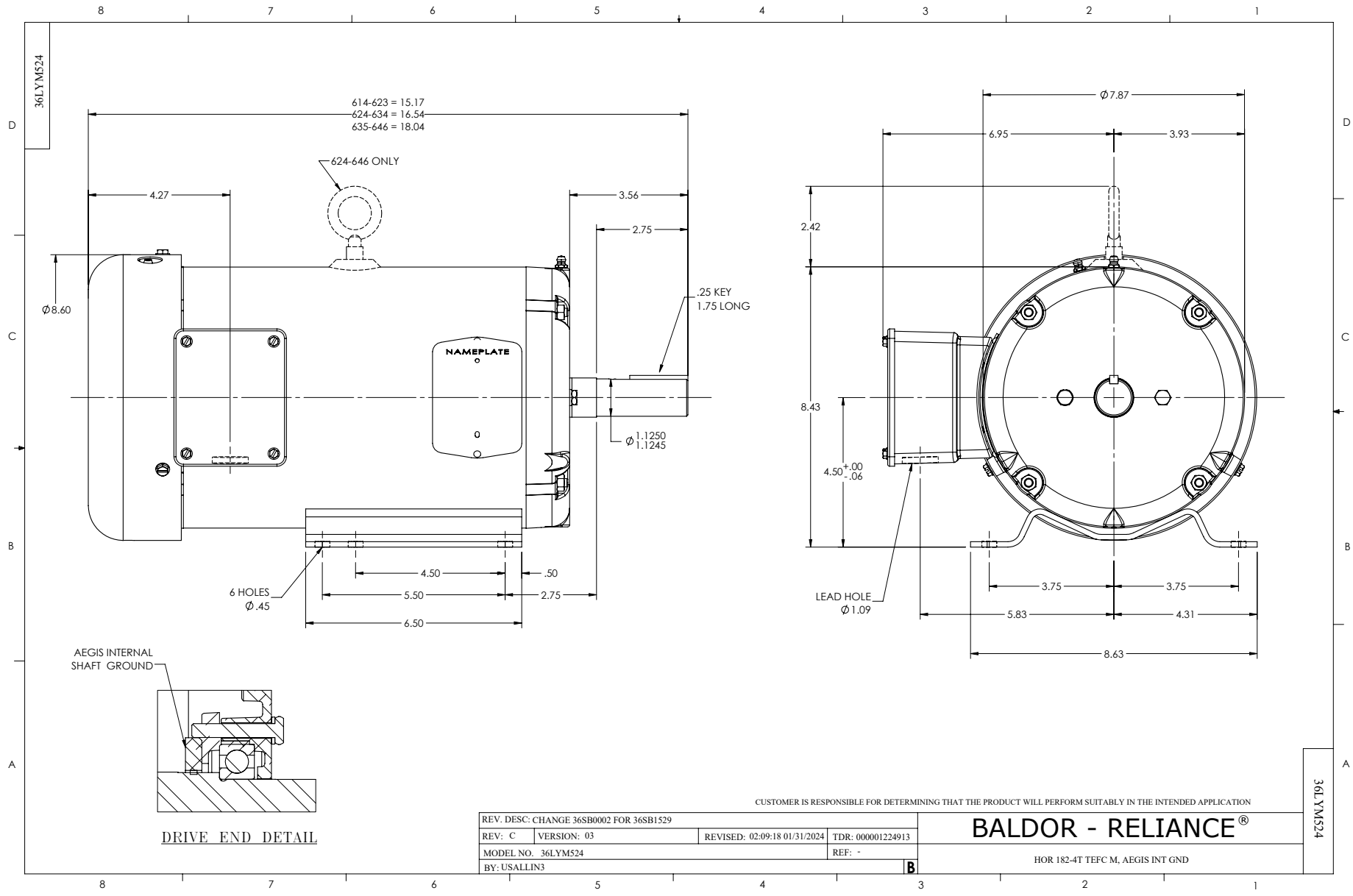
WINDING # 36WGR014

5 HP 3 PH 60 HZ 1756 RPM 460 V 3646M

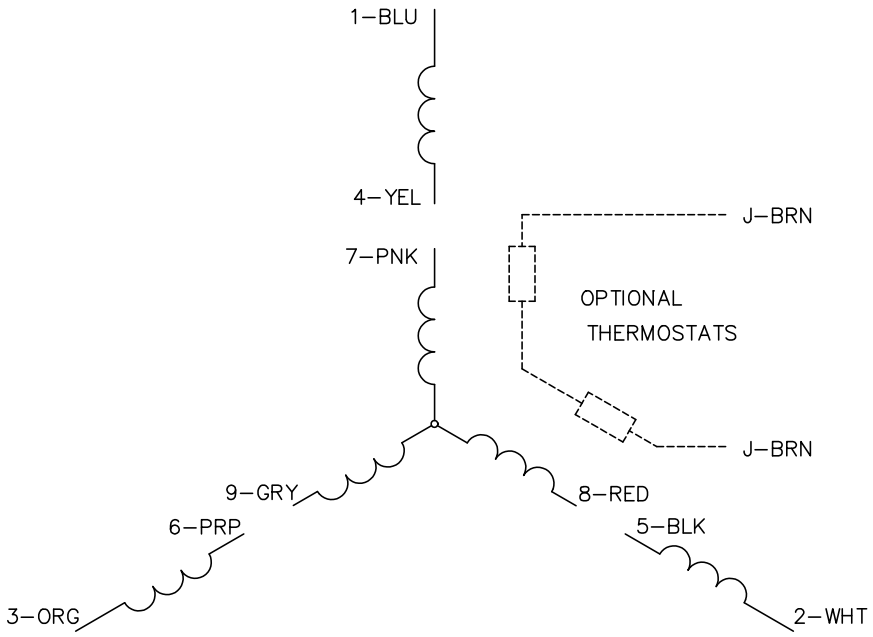
Typical performance - not guaranteed values.

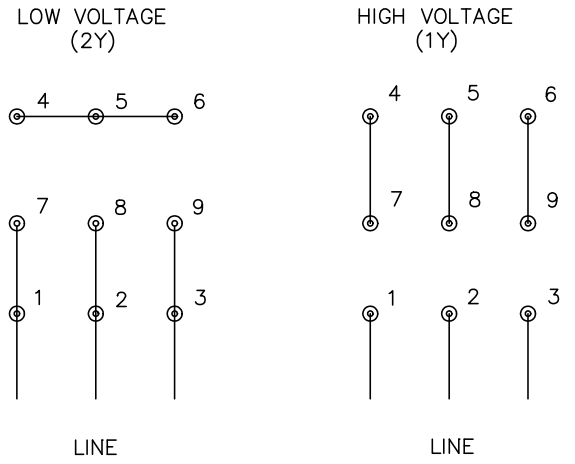
TORQUES(LB-FT): PO=67.5 PU=32.7 LR=42.5 LRA=58.2




36LYM524
614-623 = 15.17
624-646 = 16.54
635-646 = 18.04
624-646 ONLY
4.27
3.56
2.75
Ø8.60
.25 KEY
1.75 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
Ø .45
4.50
.50
5.50
2.75
6.50
Ø7.87
6.95
3.93
2.42
8.43
4.50 +.00 -.06
LEAD HOLE
Ø 1.09
3.75
3.75
5.83
4.31
8.63
AEGIS INTERNAL
SHAFT GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE 36SB0002 FOR 36SB1529
REV: C
VERSION: 03
REVISED: 02:09:18 01/31/2024
TDR: 000001224913
MODEL NO. 36LYM524
REF: -
BY: USALLIN3
B
BALDOR - RELIANCE®
HOR 182-4T TEFC M, AEGIS INT GND
36LYM524

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