ABB BALDOR RELIANCE

Customer information packet

EM3614T

2HP, 1170RPM, 3PH, 60HZ, 184T, 3644M, 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	2.000 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	7.000 A @ 208.0 V
	7.000 A @ 230.0 V
	3.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	36G271
Base	
Status	PRD/A
Elec. spec.	36WGS917
Layout	36LYG271
Eff. date	06-16-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	04-17-2012

Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3644M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.05 IN
Power Factor	60
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 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

NP3441LUA										
CAT.NO.	EM3614T									
SPEC	36G271S917G1									
HP	2									
VOLTS	230/460									
AMPS	7/3.5									
RPM	1175									
FRAME	184T	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	M	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	88.5	**PF**	60							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6206	**ODE**	6205							
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50Hz 2HP 190/380V 7.8/3.9A									SF1.0

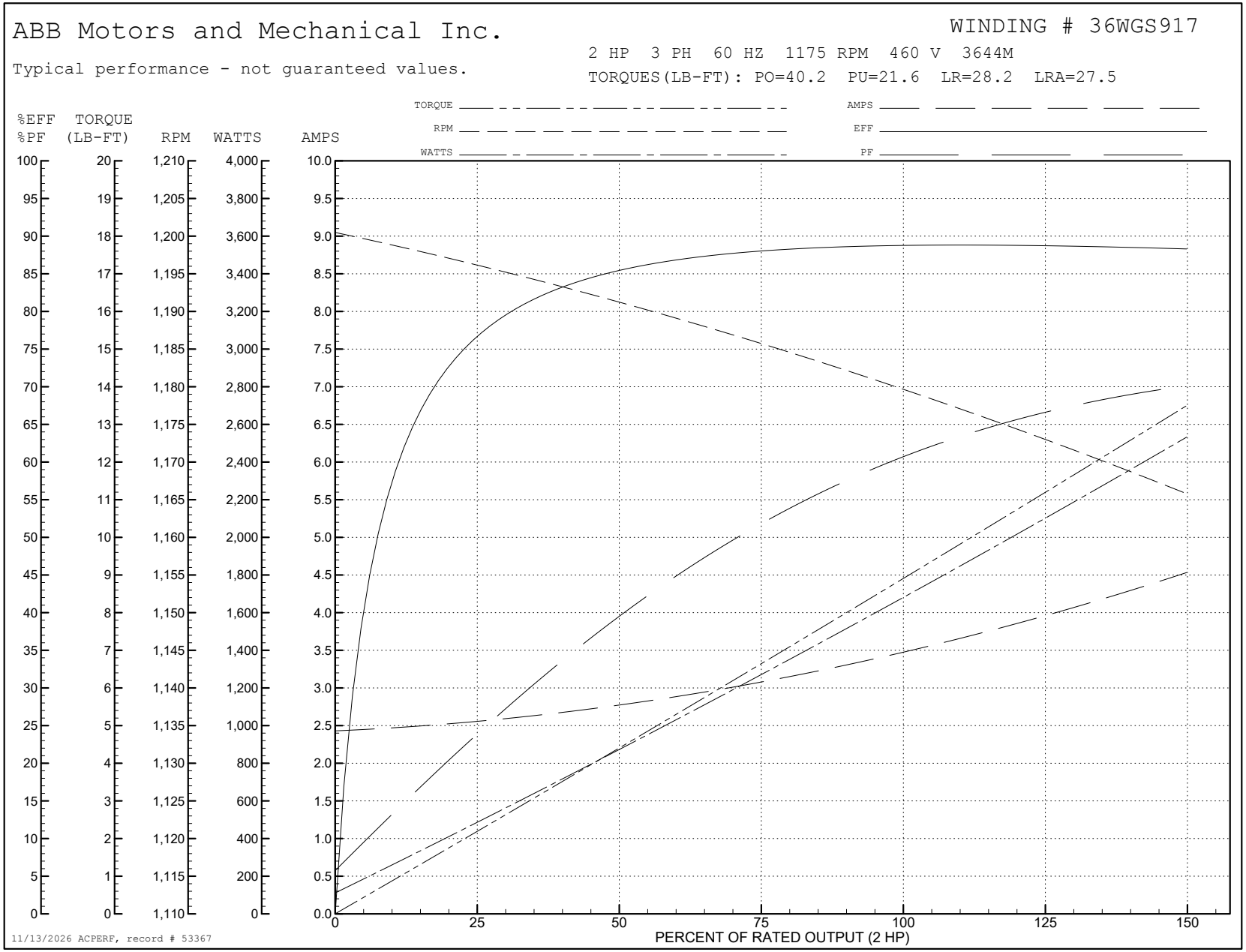
AC Induction Motor Performance Data
Record # 53367
Typical performance - not guaranteed values

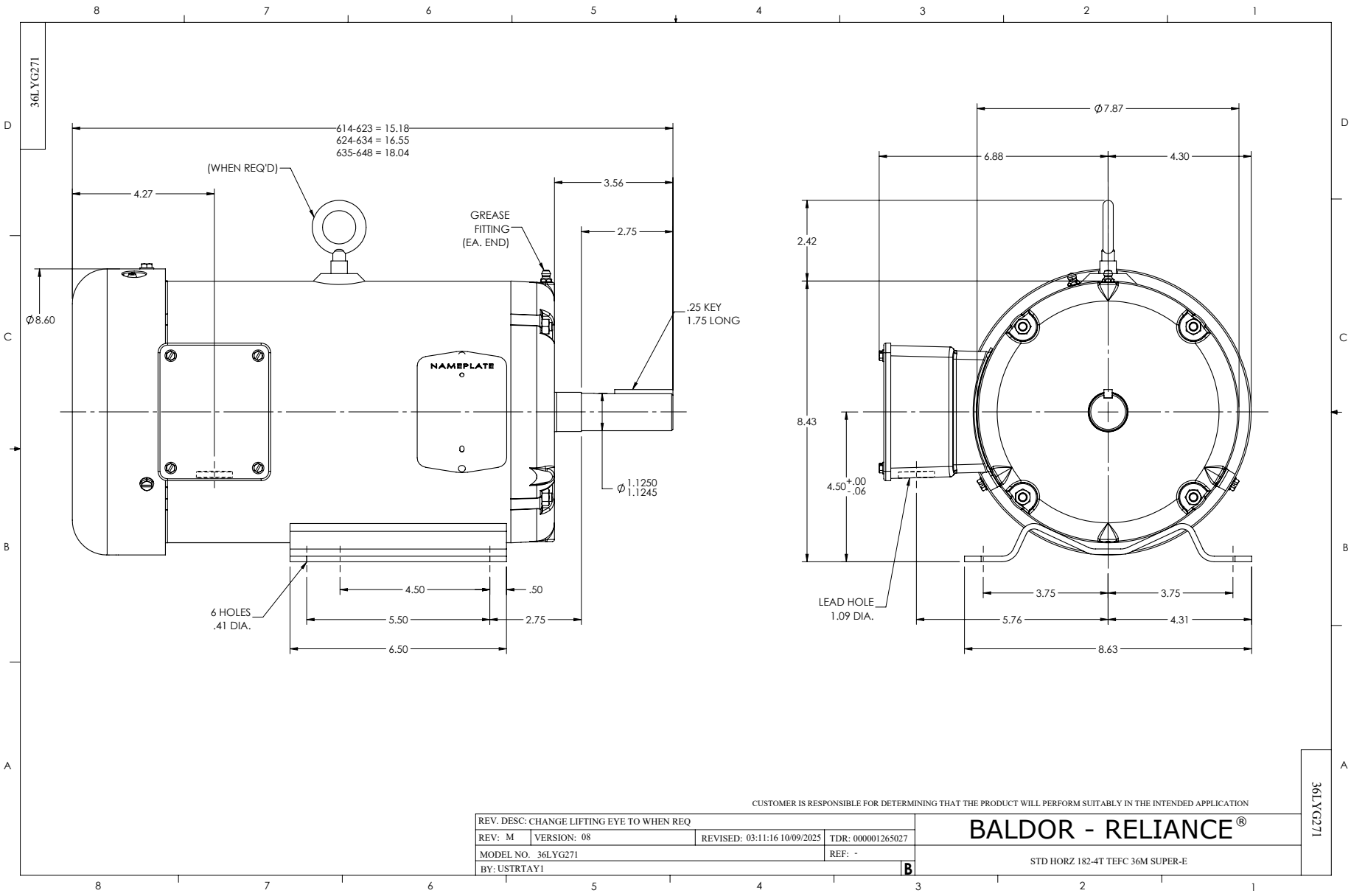
Winding: 36WGS917-R019	**Type:** 3644M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	8.91 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7/3.5	**Breakdown Torque**	40.2 LB-FT
R.P.M.			1175	**Pull-up Torque**	21.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	28.2 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	27.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2.45 A
NEMA Nom. Eff.	88.5	**Power Factor**	60	**Line-line Res. @ 25ºC**	4.02 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C
				Locked-rotor Power Factor	28.7
				Rotor inertia	0.413 LB-FT2

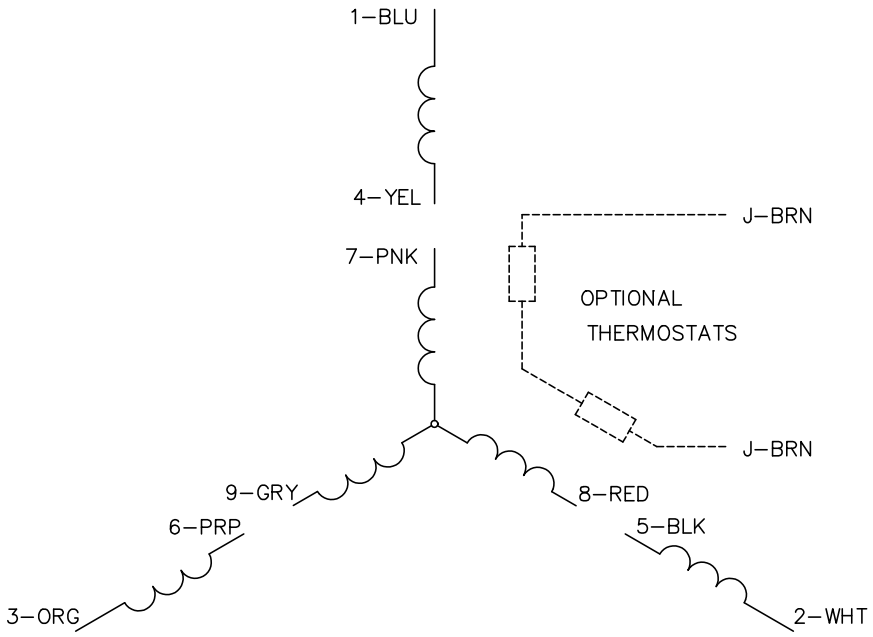
Load Characteristics 460 V, 60 Hz, 2 HP

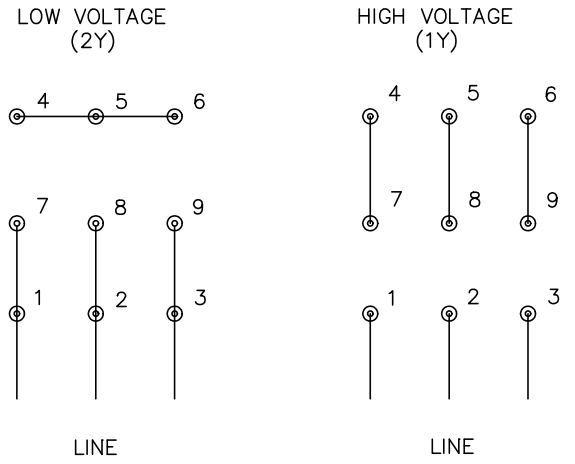
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	40	52	60	66	70	64
Efficiency	76.4	85.3	87.9	88.8	88.9	88.2	88.8
Speed	1197	1191	1186	1179	1173	1166	1175
Line amperes	2.53	2.76	3.09	3.49	3.97	4.52	3.78


ABB Motors and Mechanical Inc.
WINDING # 36WGS917
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1175 RPM 460 V 3644M
TORQUES(LB-FT): PO=40.2 PU=21.6 LR=28.2 LRA=27.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/13/2026 ACPERF, record # 53367


36LYG271
614-623 = 15.18
624-634 = 16.55
635-648 = 18.04
(WHEN REQ'D)
4.27
3.56
GREASE FITTING (EA. END)
2.75
.25 KEY
1.75 LONG
Ø8.60
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.88
4.30
2.42
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
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: CHANGE LIFTING EYE TO WHEN REQ
REV: M
VERSION: 08
REVISED: 03:11:16 10/09/2025
TDR: 000001265027
MODEL NO. 36LYG271
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M SUPER-E
36LYG271

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