ABB BALDOR RELIANCE

Customer information packet

EM3614T-5

2HP, 1175RPM, 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	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	2.800 A @ 575.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	36G271
Base	
Status	PRD/A
Elec. spec.	36WGS955
Layout	36LYG271
Eff. date	06-16-2026
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	06-04-2012

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	3 @ 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

NP3441L									
CAT.NO.	EM3614T-5								
SPEC.	36G271S955G1								
HP	2								
VOLTS	575								
AMP	2.8								
RPM	1175								
FRAME	184T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	M	**DES**	A	**CL**	F		
NEMA-NOM-EFF	88.5	**PF**	60						
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 # 38674
Typical performance - not guaranteed values

Winding: 36WGS955-R001	**Type:** 3644M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	8.91 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.8	**Breakdown Torque**	40.52 LB-FT
R.P.M.			1175	**Pull-up Torque**	21.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	28.46 LB-FT
NEMA Design Code	A	**KVA Code**	M	**Starting Current**	22.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.98 A
NEMA Nom. Eff.	88.5	**Power Factor**	60	**Line-line Res. @ 25ºC**	6.31 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	28.9
				Rotor inertia	0.413 LB-FT2

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	40	51	60	66	70	64
Efficiency	76.3	85.2	87.8	88.8	88.8	88.1	88.9
Speed	1197	1192	1186	1180	1173	1166	1176
Line amperes	2.05	2.23	2.49	2.81	3.19	3.63	3.04

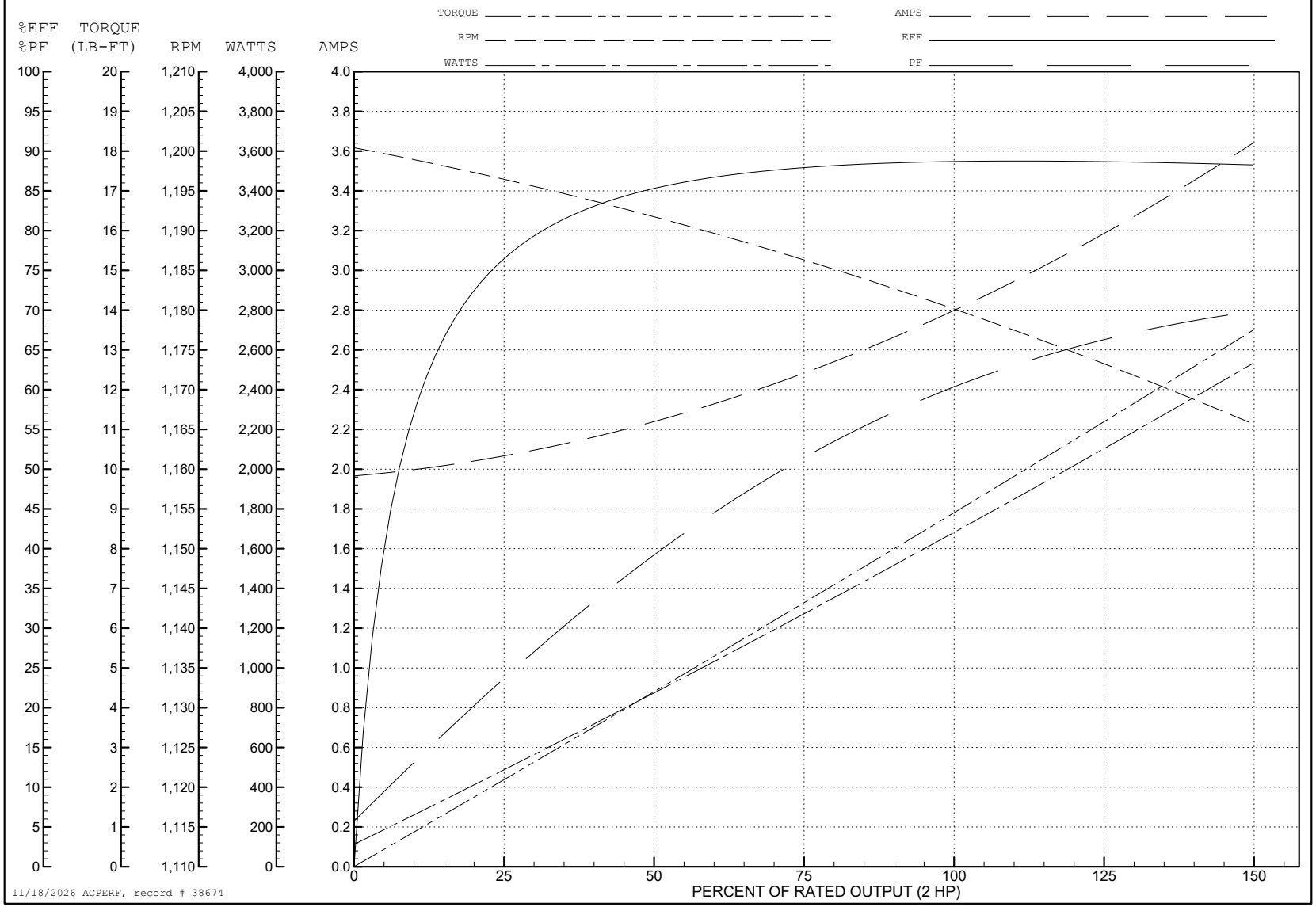
ABB Motors and Mechanical Inc.

WINDING # 36WGS955

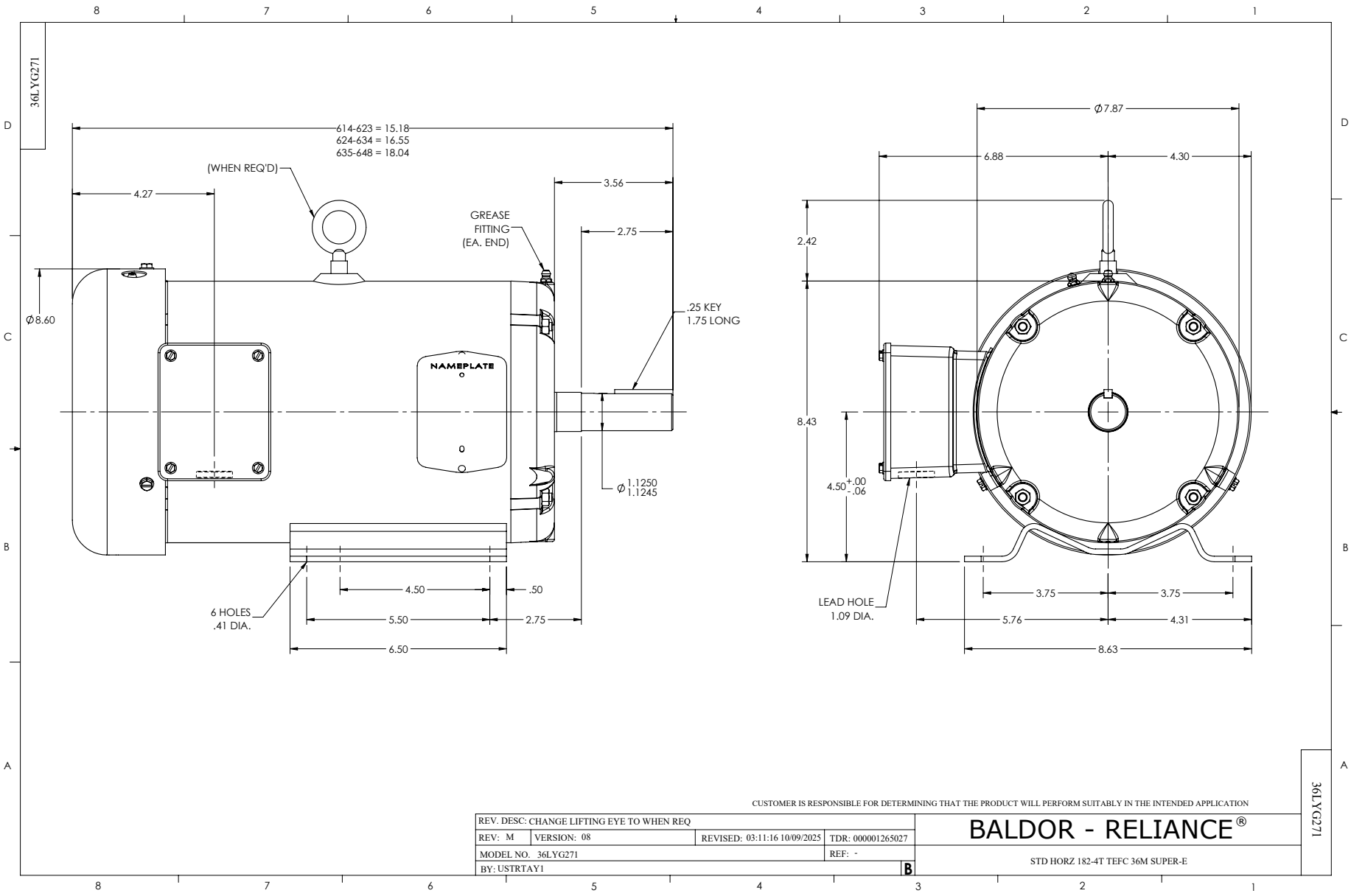
2 HP 3 PH 60 HZ 1175 RPM 575 V 3644M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=40.52 PU=21.8 LR=28.46 LRA=22.2

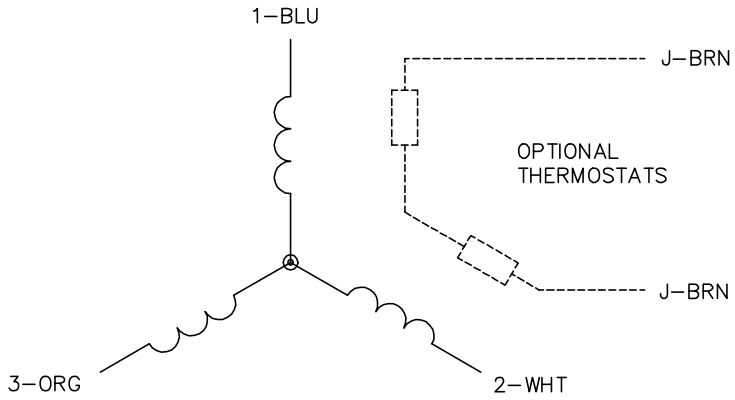


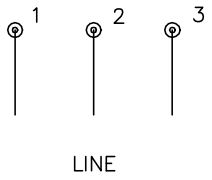
11/18/2026 ACPERF, record # 38674


36LYG271
614-623 = 15.18
624-634 = 16.55
635-648 = 18.04
(WHEN REQ'D)
4.27
3.56
2.75
GREASE FITTING (EA. END)
.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

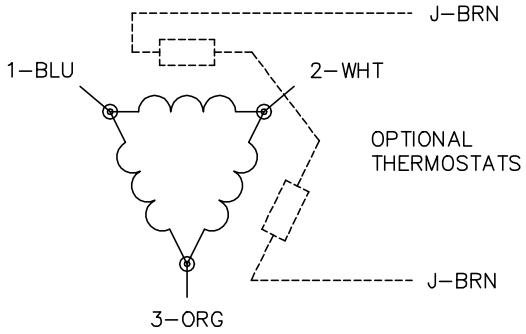
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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