

**BALDOR • RELIANCE**

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# Customer information packet

## EM3611T-57

3HP, 1460RPM, 3PH, 50HZ, 182T, 3632M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS IE3 UKCA WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.600 A @ 400.0 V 9.700 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	J
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGR919
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0022
Poles	04
Leads	6#16
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.54 IN
Power Factor	72
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2716L</b>									
<b>CAT NO</b>	EM3611T-57								
<b>SPEC.</b>	36A001R919G1								
<b>HP</b>	3/2.2KW				<b>PH</b>	3			
<b>VOLTS</b>	230/400								
<b>AMP</b>	9.7/5.6								
<b>R.P.M. (1/MIN)</b>	1460								
<b>FRAME</b>	182T		<b>HZ</b>	50		<b>I.P.</b>	44		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CL</b>	F		
<b>NOM.EFF.</b>	86.7		<b>% (100%)</b>						
<b>PF</b>	72								
<b>RATING</b>	40C AMB-S1 CONT				<b>CC</b>				
<b>DE BRG</b>	6206		<b>ODE</b>	6205					
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>BLANK</b>	IE3-85.7(75%)82.6(50%)								
	IC411 32KG								

**AC Induction Motor Performance Data**

Record # 54648

Typical performance - not guaranteed values

<b>Winding: 36WGR919-R002</b>		<b>Type: 3632M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>400 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>		3	<b>Full Load Torque</b>		10.6 LB-FT
<b>Volts</b>		230/400	<b>Start Configuration</b>		direct on line
<b>Full Load Amps</b>		9.7/5.6	<b>Breakdown Torque</b>		49.5 LB-FT
<b>R.P.M.</b>		1460	<b>Pull-up Torque</b>		22.7 LB-FT
<b>Hz</b>	<b>50 Phase</b>	3	<b>Locked-rotor Torque</b>		32.3 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>	K	<b>Starting Current</b>		42.3 A
<b>Service Factor (S.F.)</b>		1.15	<b>No-load Current</b>		3.7 A
<b>NEMA Nom. Eff.</b>	<b>86.7 Power Factor</b>	72	<b>Line-line Res. @ 25°C</b>		3.1 Ω
<b>Rating - Duty</b>		40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>		58°C
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>		68°C
			<b>Locked-rotor Power Factor</b>		48.7
			<b>Rotor inertia</b>		0.298 LB-FT <sup>2</sup>

**Load Characteristics 400 V, 50 Hz, 3 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	27	44	58	67	73	77	70
<b>Efficiency</b>	77.7	85.7	87.9	88.7	88.5	87.2	86.9
<b>Speed</b>	1492	1484	1475	1467	1457	1446	1458
<b>Line amperes</b>	3.85	4.18	4.74	5.4	6.26	7.22	6.09

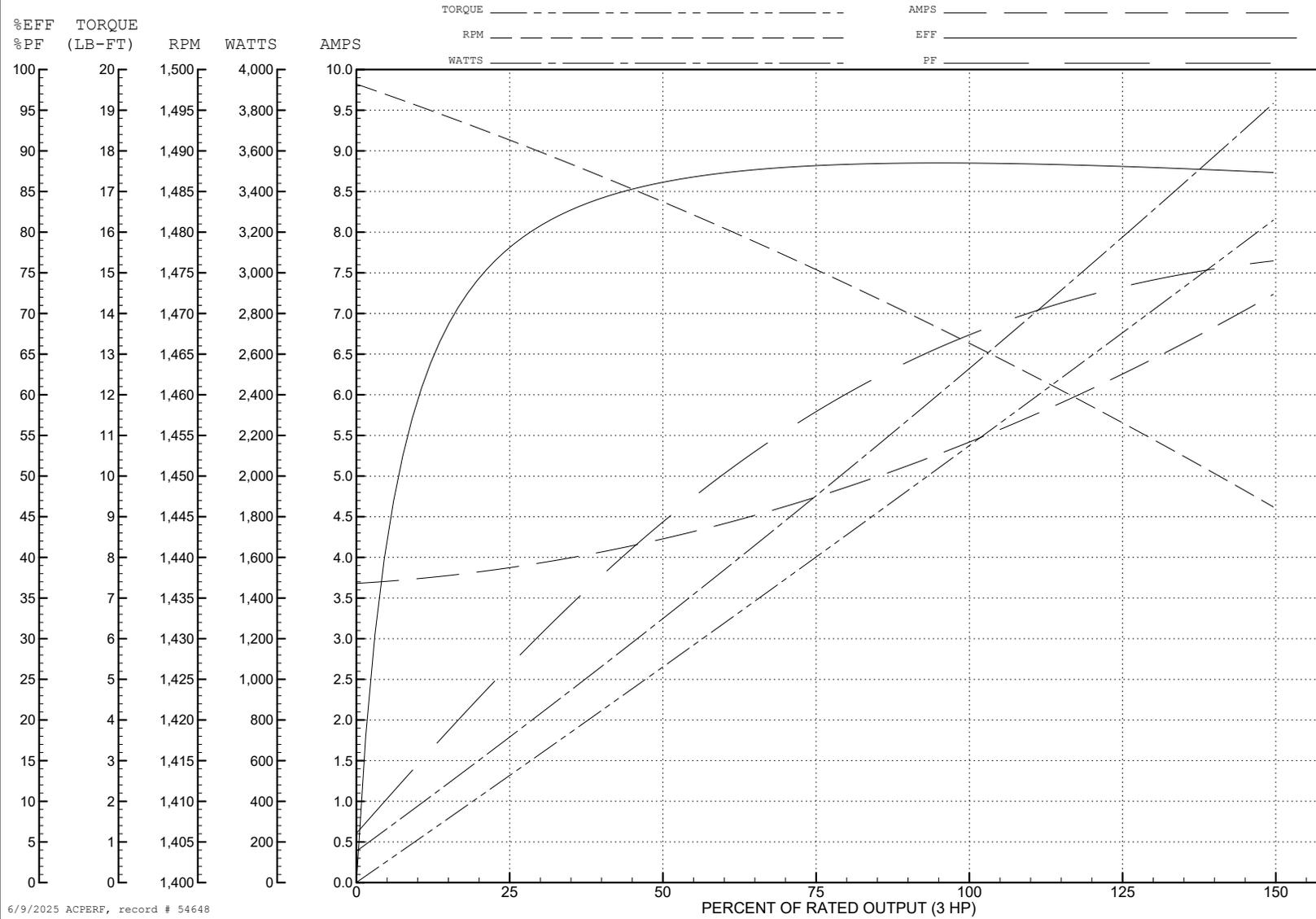
ABB Motors and Mechanical Inc.

WINDING # 36WGR919

3 HP 3 PH 50 HZ 1460 RPM 400 V 3632M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=49.5 PU=22.7 LR=32.3 LRA=42.3



6/9/2025 ACPERF, record # 54648

**AC Induction Motor Performance Data**

Record # 64311

Typical performance - not guaranteed values

Winding: 36WGR919-R002		Type: 3632M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 50 Hz: Low Voltage Connection</b>	
Rated Output (HP)	3	Full Load Torque	10.62 LB-FT	
Volts	230/400	Start Configuration	direct on line	
Full Load Amps	9.7/5.6	Breakdown Torque	49.04 LB-FT	
R.P.M.	1460	Pull-up Torque	22.45 LB-FT	
Hz	50 Phase	Locked-rotor Torque	31.94 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	72.83 A	
Service Factor (S.F.)	1.15	No-load Current	6.32 A	
NEMA Nom. Eff.	86.7 Power Factor	Line-line Res. @ 25°C	1.03 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	58°C	
S.F. Amps		Temp. Rise @ S.F. Load	68°C	
		Locked-rotor Power Factor	48.6	
		Rotor inertia	0.298 LB-FT <sup>2</sup>	

**Load Characteristics 230 V, 50 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	45	58	67	73	77	71
Efficiency	78	85.8	88	88.7	88.5	87.1	88.6
Speed	1492	1484	1475	1467	1457	1446	1461
Line amperes	6.58	7.16	8.15	9.32	10.81	12.49	10.2

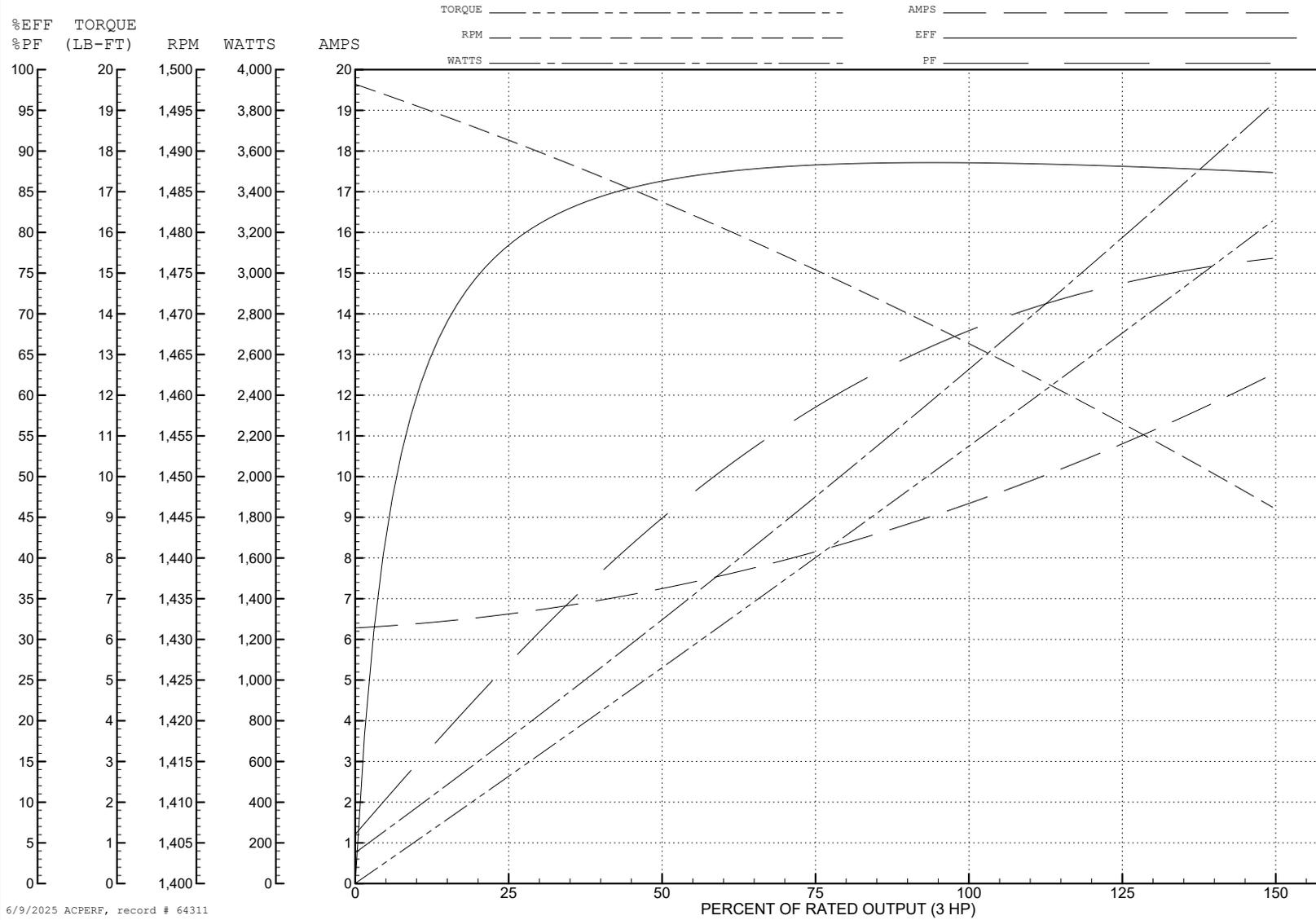
ABB Motors and Mechanical Inc.

WINDING # 36WGR919

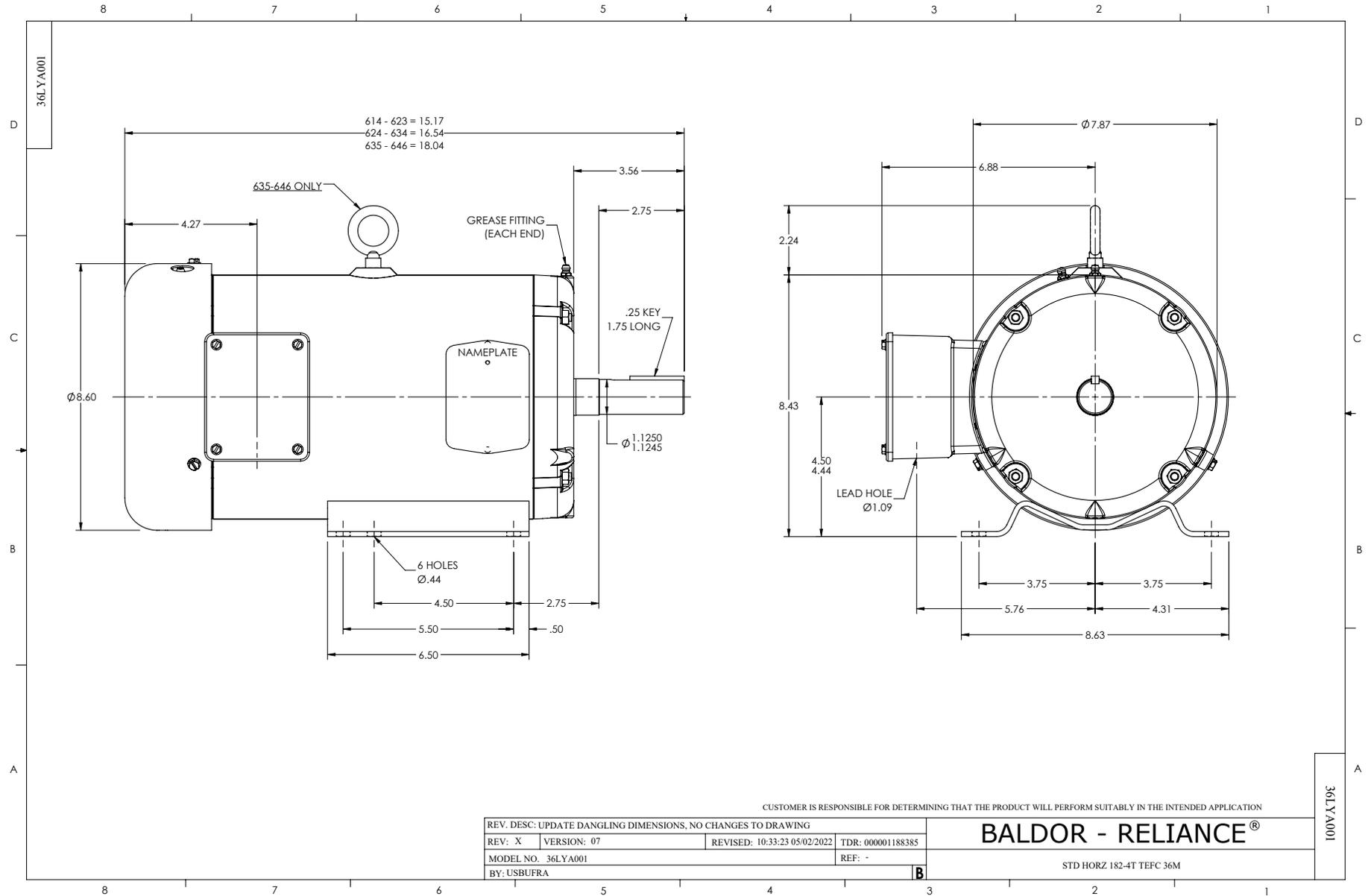
3 HP 3 PH 50 HZ 1460 RPM 230 V 3632M

Typical performance - not guaranteed values.

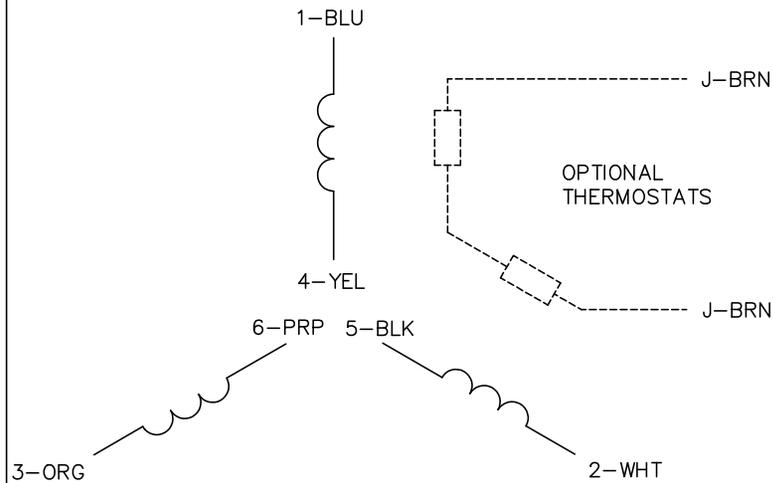
TORQUES (LB-FT): PO=49.04 PU=22.45 LR=31.94 LRA=72.83



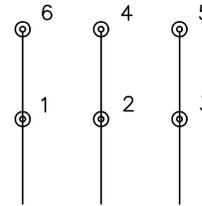
6/9/2025 ACPERF, record # 64311



CD0022

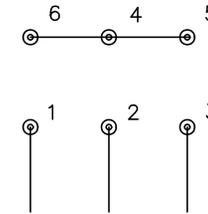


LOW VOLTAGE  
(1D)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022