BALDOR • RELIANCE

Customer information packet

EM3611T-57

3HP, 1460RPM, 3PH, 50HZ, 182T, 3632M, TEFC, F1
Class - None
Division - Not Applicable

10/31/2023 9:30:17 PM

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
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	F
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGR919
Layout	36LYA001
Eff. date	07-06-2023
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

Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

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

AC Induction Motor Performance Data
Record # 54648
Typical performance - not guaranteed values

Winding: 36WGR919-R002	**Type:** 3632M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	10.6 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			9.7/5.6	**Breakdown Torque**	49.5 LB-FT
R.P.M.			1460	**Pull-up Torque**	22.7 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	32.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	42.3 A
Service Factor (S.F.)			1.15	**No-load Current**	3.7 A
NEMA Nom. Eff.	86.7	**Power Factor**	72	**Line-line Res. @ 25ºC**	3.1 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	48.7
				Rotor inertia	0.298 LB-FT2

Load Characteristics 400 V, 50 Hz, 3 HP

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

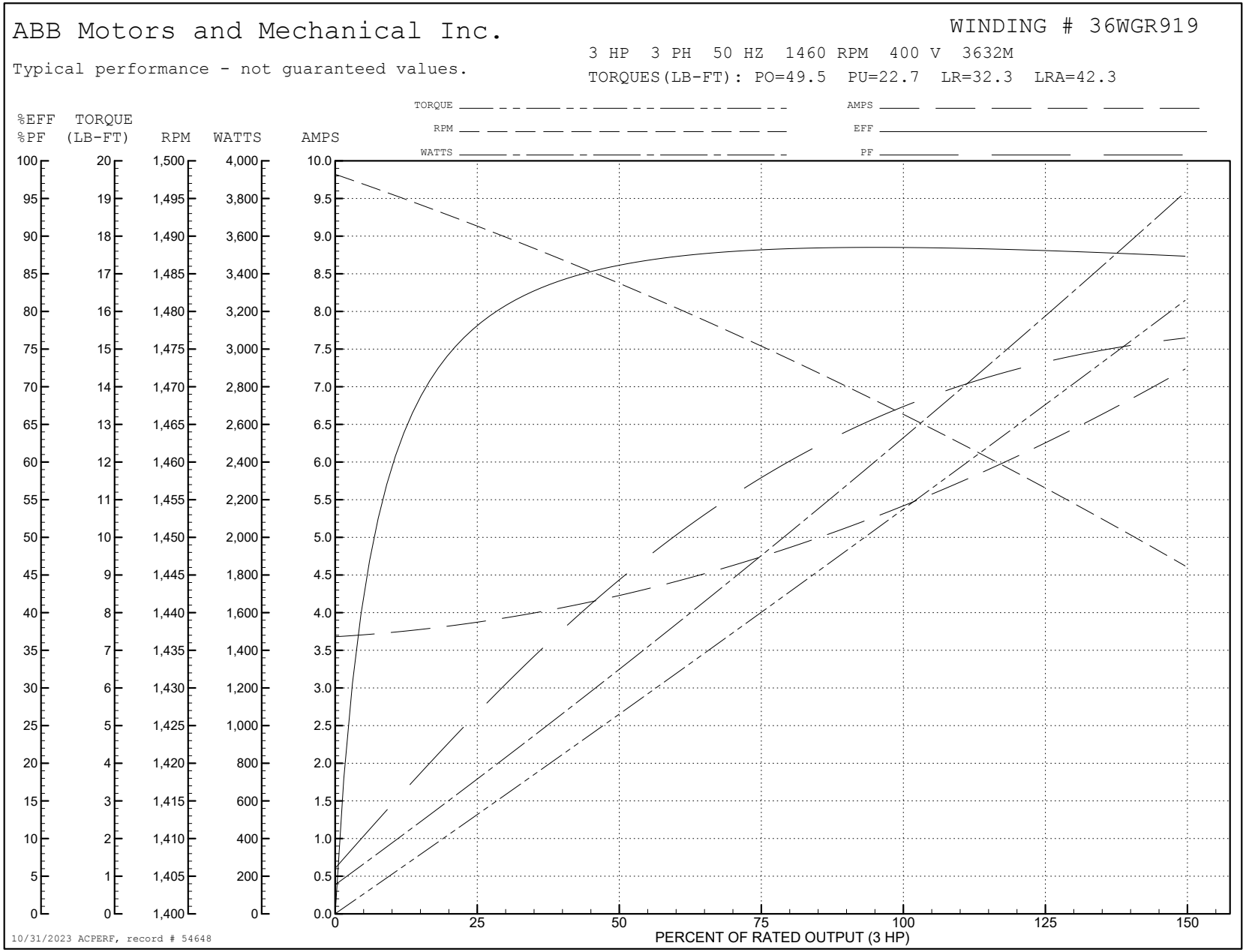


ABB Motors and Mechanical Inc.
WINDING # 36WGR919
Typical performance - not guaranteed values.
3 HP 3 PH 50 HZ 1460 RPM 400 V 3632M
TORQUES(LB-FT): PO=49.5 PU=22.7 LR=32.3 LRA=42.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
1,500 1,495 1,490 1,485 1,480 1,475 1,470 1,465 1,460 1,455 1,450 1,445 1,440 1,435 1,430 1,425 1,420 1,415 1,410 1,405 1,400
4,000 3,800 3,600 3,400 3,200 3,000 2,800 2,600 2,400 2,200 2,000 1,800 1,600 1,400 1,200 1,000 800 600 400 200 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (3 HP)
10/31/2023 ACPERF, record # 54648

AC Induction Motor Performance Data
Record # 64311
Typical performance - not guaranteed values

Winding: 36WGR919-R002	**Type:** 3632M	**Enclosure:** TEFC

Nameplate Data				**230 V, 50 Hz: Low Voltage Connection**	
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**	3	**Locked-rotor Torque**	31.94 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	72.83 A
Service Factor (S.F.)			1.15	**No-load Current**	6.32 A
NEMA Nom. Eff.	86.7	**Power Factor**	72	**Line-line Res. @ 25ºC**	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-FT2

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

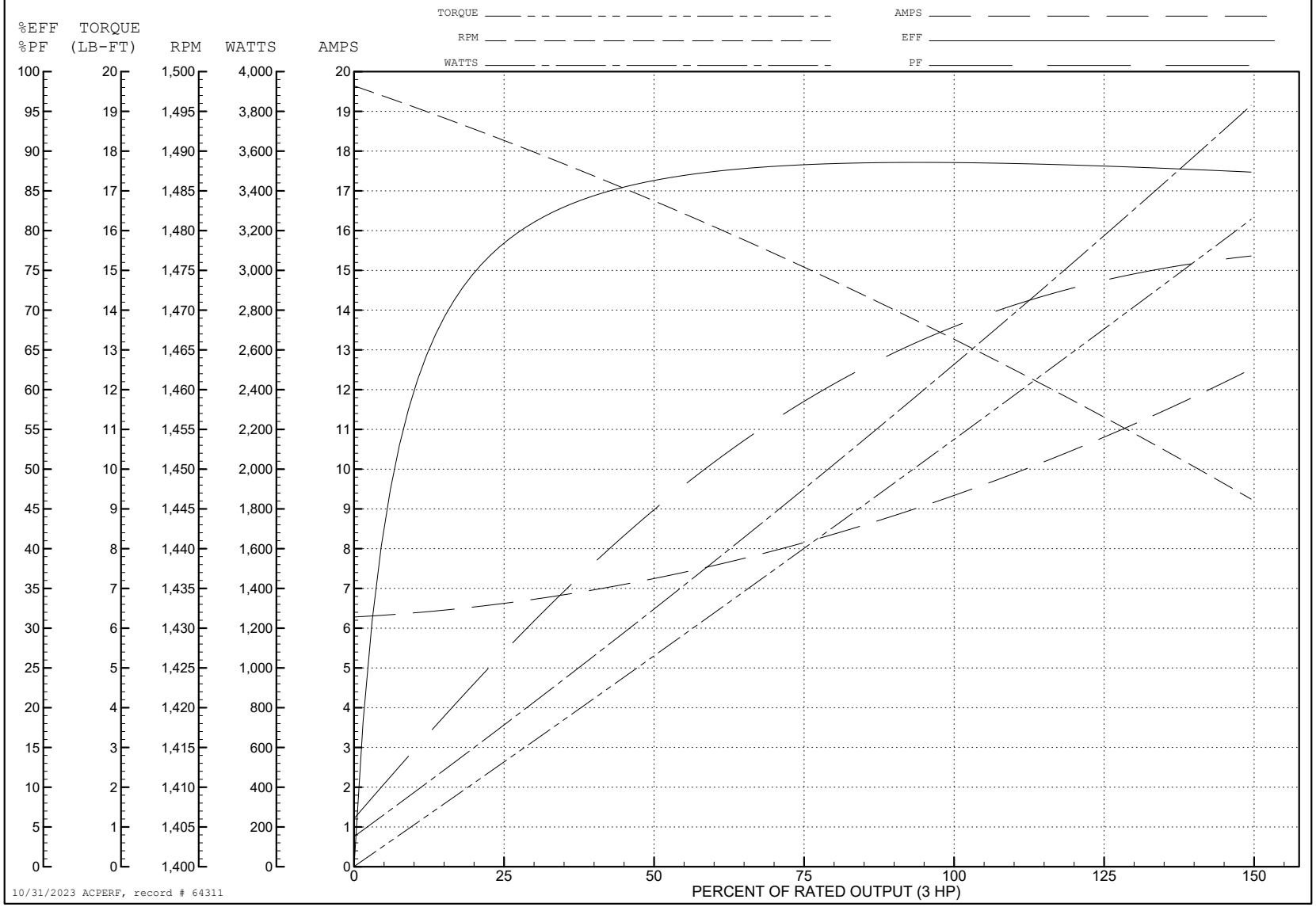
ABB Motors and Mechanical Inc.

WINDING # 36WGR919

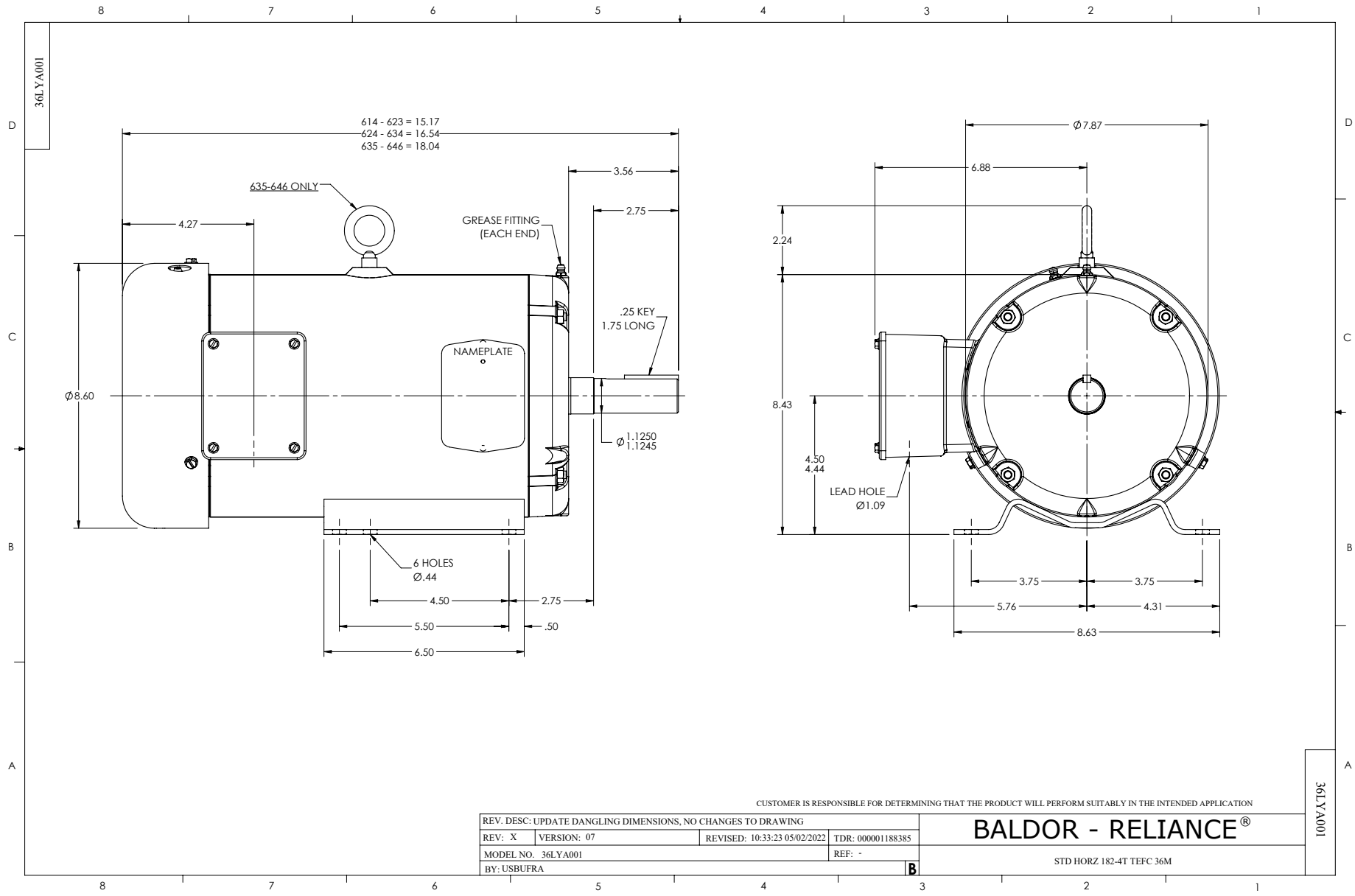
Typical performance - not guaranteed values.

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

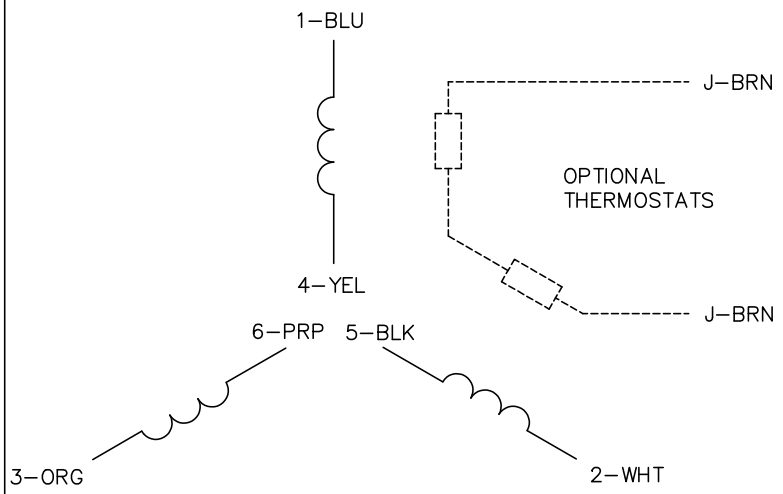
TORQUES(LB-FT): PO=49.04 PU=22.45 LR=31.94 LRA=72.83

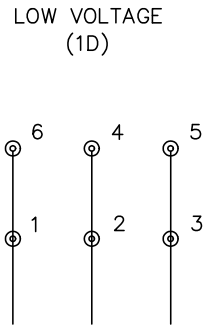


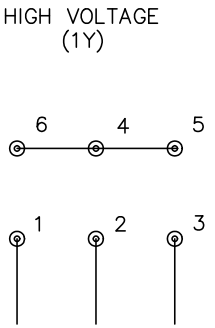
10/31/2023 ACPERF, record # 64311


36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646 ONLY
3.56
2.75
4.27
GREASE FITTING
(EACH END)
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
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: UPDATE DANGLING DIMENSIONS, NO CHANGES TO DRAWING
REV: X
VERSION: 07
REVISED: 10:33:23 05/02/2022
TDR: 000001188385
MODEL NO. 36LYA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

CD0022







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			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022