

ABB BALDOR RELIANCE III

Customer information packet

L3613T

1.5HP, 1140RPM, 1PH, 60HZ, 184T, 3634LC, TEFC

Class - None

Division - Not Applicable

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	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	16.400 A @ 115.0 V 8.200 A @ 230.0 V 8.600 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.0 %
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	8.2 a

Part Detail

Revision	AZ
Type	AC
Mech. spec.	36E004
Base	
Status	PRD/A
Elec. spec.	36WGW839
Layout	36LYE004
Eff. date	07-17-2025
CD Diagram	CD0055
Poles	06
Leads	6#16
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard 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	3634LC
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.56 IN
Power Factor	81
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	1140 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

NP1256L									
CAT.NO.	L3613T								
SPEC.	36E04W839								
HP	1.5								
VOLTS	115/230								
AMP	16.4/8.2								
RPM	1140								
FRAME	184T		HZ	60			PH	1	
SER.F.	1.15	CODE	J	DES	L	CLASS		F	
NEMA-NOM-EFF	73	PF	81						
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA034452	SA 36E04W839	1.000 ea
RA030480	RA 36E04W839	1.000 ea
OC3060C09SP	CAPACITOR 60 MFD 240 VAC	1.000 ea
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
36GS3000	GASKET, CAPACITOR COVER LEXIDE	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A01SP	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
36CB3800SP	CAPACITOR COVER, CAST	1.000 ea
HA7010A01	CAPACITOR RETENTION CLAMP, 6.562 LONG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
HA3101A45	THRUBOLT- 1/4-20 X 11.126	4.000 ea
36FH4009A124	IEC FH W/GRSR,GRILL,NO DIMPLES,PRIMER	1.000 ea
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data

Record # 44641

Typical performance - not guaranteed values

Winding: 36GW839-R001			Type: 3634LC		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		6.8 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		16.4/8.2	Breakdown Torque		16 LB-FT	
R.P.M.		1140	Pull-up Torque		11 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		15 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		84 A	
Service Factor (S.F.)		1.15	No-load Current		4.1 A	
NEMA Nom. Eff.	73 Power Factor	81	Line-line Res. @ 25°C		0.403 Ω A Ph 1.01 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		76°C	
S.F. Amps			Temp. Rise @ S.F. Load		90°C	
			Rotor inertia		0.319 LB-FT2	

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	68	76	81	81	80	81
Efficiency	51.4	66.5	72.4	74.3	73.8	70.7	74
Speed	1188	1179	1168	1156	1140	1117	1146
Line amperes	4.6	5.5	6.5	8.2	10	12.5	9.2

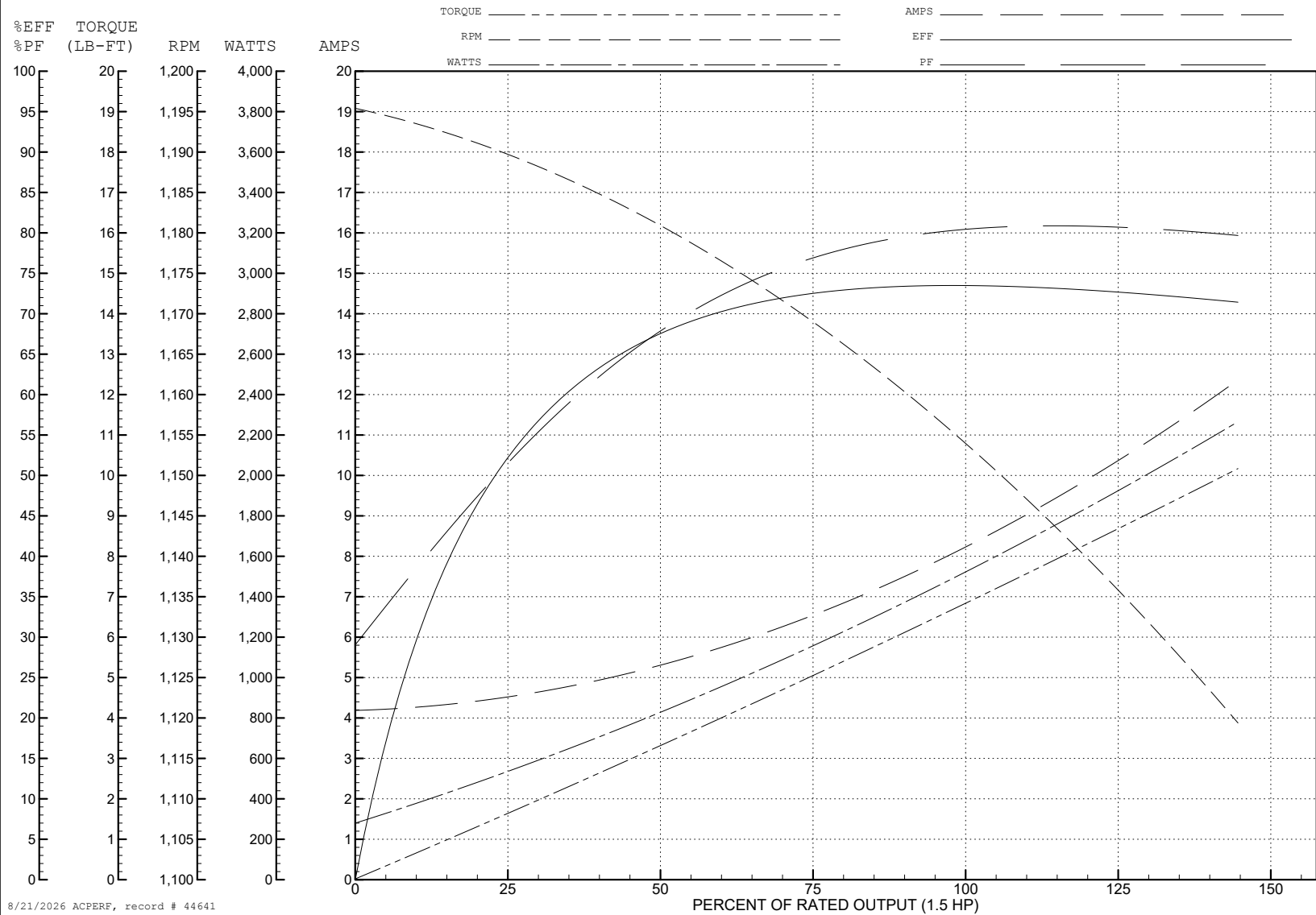
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WINDING # 36WG839

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1140 RPM 230 V 3634LC

TORQUES (LB-FT): PO=16 PU=11 LR=15 LRA=84



AC Induction Motor Performance Data

Record # 44642

Typical performance - not guaranteed values

Winding: 36GW839-R001			Type: 3634LC		Enclosure: TEFC		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		6.8 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		16.4/8.2	Breakdown Torque		16 LB-FT		
R.P.M.		1140	Pull-up Torque		11 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque		15 LB-FT		
NEMA Design Code		L	KVA Code		J	Starting Current	84 A
Service Factor (S.F.)		1.15	No-load Current		8.2 A		
NEMA Nom. Eff.		73	Power Factor		81	Line-line Res. @ 25°C	0.403 Ω A Ph 1.01 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		76°C
S.F. Amps					Temp. Rise @ S.F. Load		90°C
					Rotor inertia		0.319 LB-FT2

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	68	76	81	81	80	81
Efficiency	51.4	66.5	72.4	74.3	73.8	70.7	74
Speed	1188	1179	1168	1156	1140	1117	1146
Line amperes	9.2	10.9	13.3	16.2	19.9	24.9	18.4

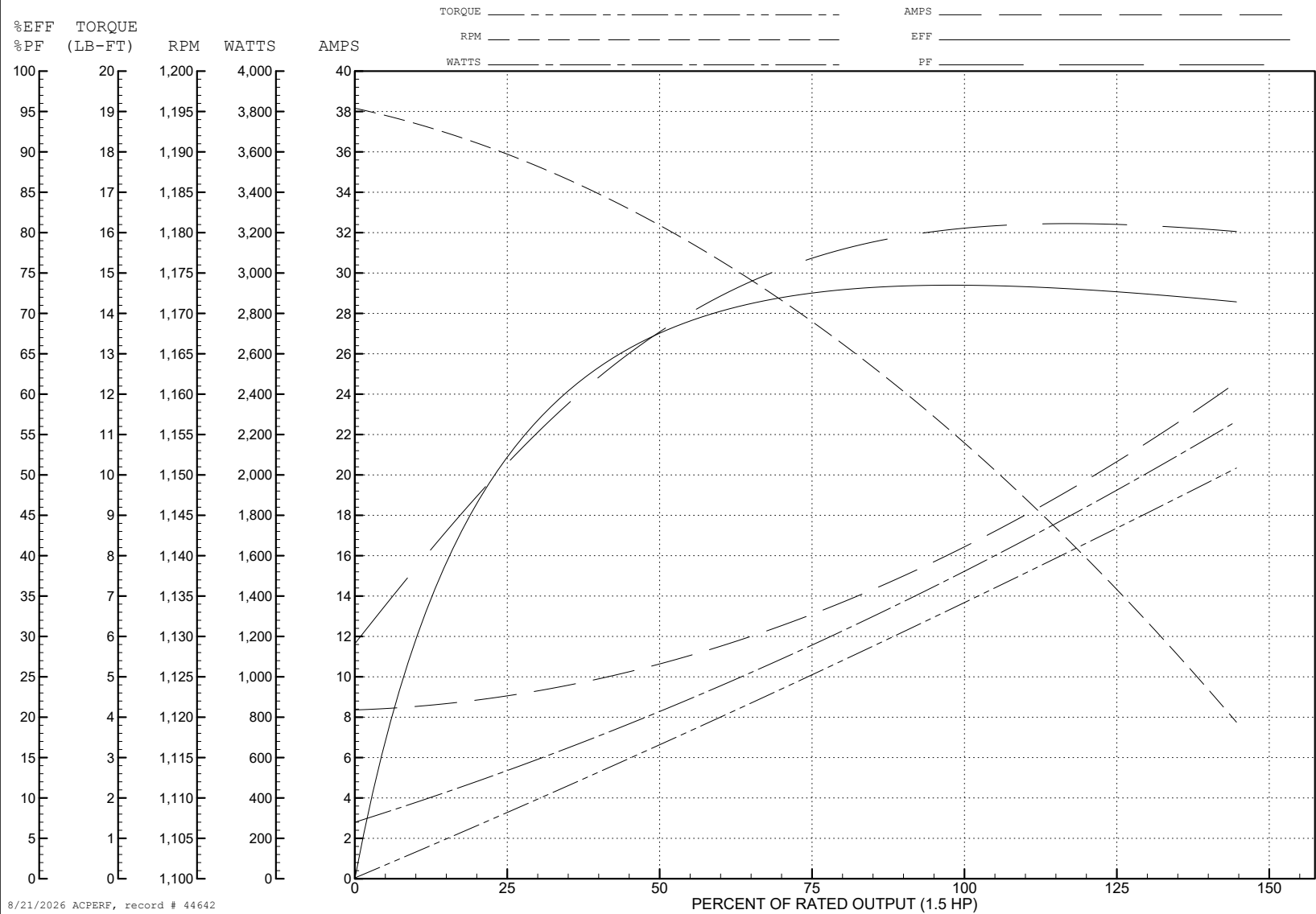
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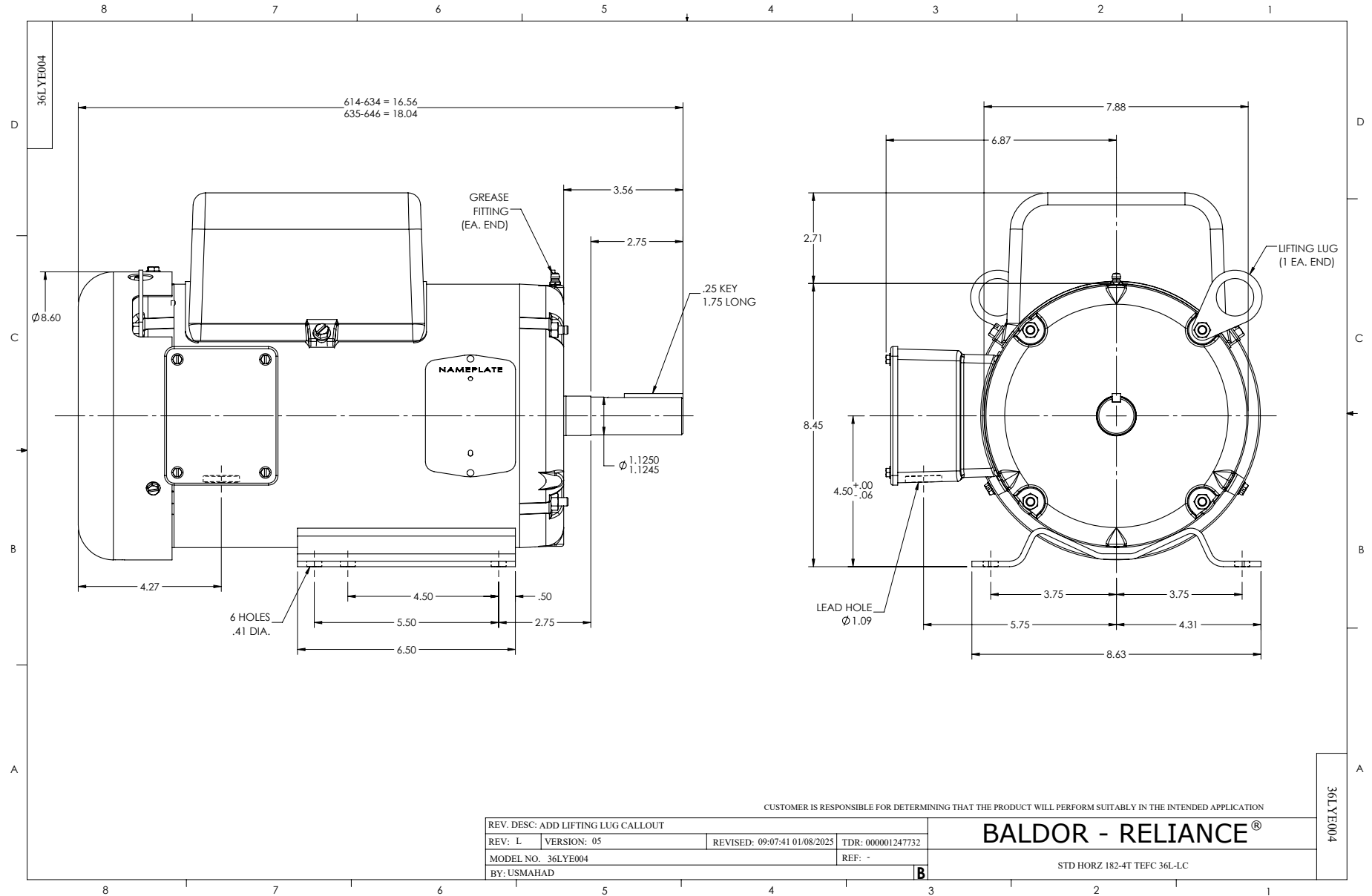
WINDING # 36WG839

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1140 RPM 115 V 3634LC

TORQUES (LB-FT): PO=16 PU=11 LR=15 LRA=84





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