BALDOR • RELIANCE

Customer information packet

EM3661T-BG

3HP, 1755RPM, 3PH, 60HZ, 182T, TEFC, F1
Class - None
Division - Not Applicable

2/16/2025 10:25:46 PM

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	8.600 A @ 208.0 V
	8.200 A @ 230.0 V
	4.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYK800
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-11-2019

High Voltage Full Load Amps	4.1 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.24 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA										
CAT.NO.	EM3661T-BG									
SPEC	06-0000-0088									
HP	3									
VOLTS	230/460									
AMPS	8.2/4.1									
RPM	1755									
FRAME	182T		**HZ**	60			**PH**	3		
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	H			
NEMA NOM. EFF	89.5	**PF**	77							
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 3HP 190/380V 9.6/4.8A									SF1.0

AC Induction Motor Performance Data
Record # 75468
Typical performance - not guaranteed values

Winding: 06WGX181-R017	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.08 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.2/4.1	**Breakdown Torque**	33.1 LB-FT
R.P.M.			1755	**Pull-up Torque**	18.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	20.4 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	29.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.14 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	3.93 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	41.4
				Rotor inertia	0.298 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	58	70	77	81	83	79
Efficiency	83.5	88.9	90	89.8	89.1	87.7	89.4
Speed	1790	1779	1769	1757	1744	1730	1749
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86	4.59

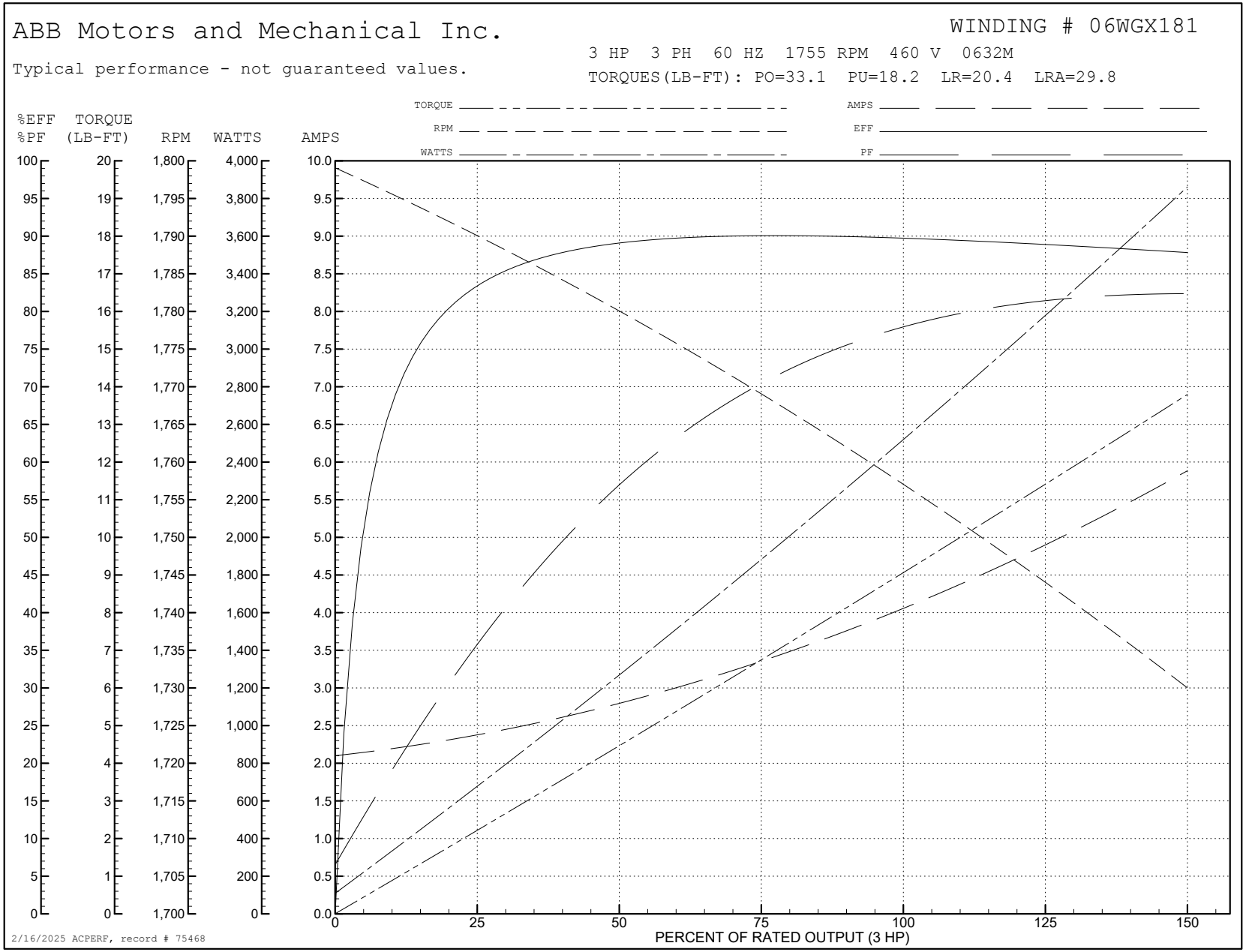
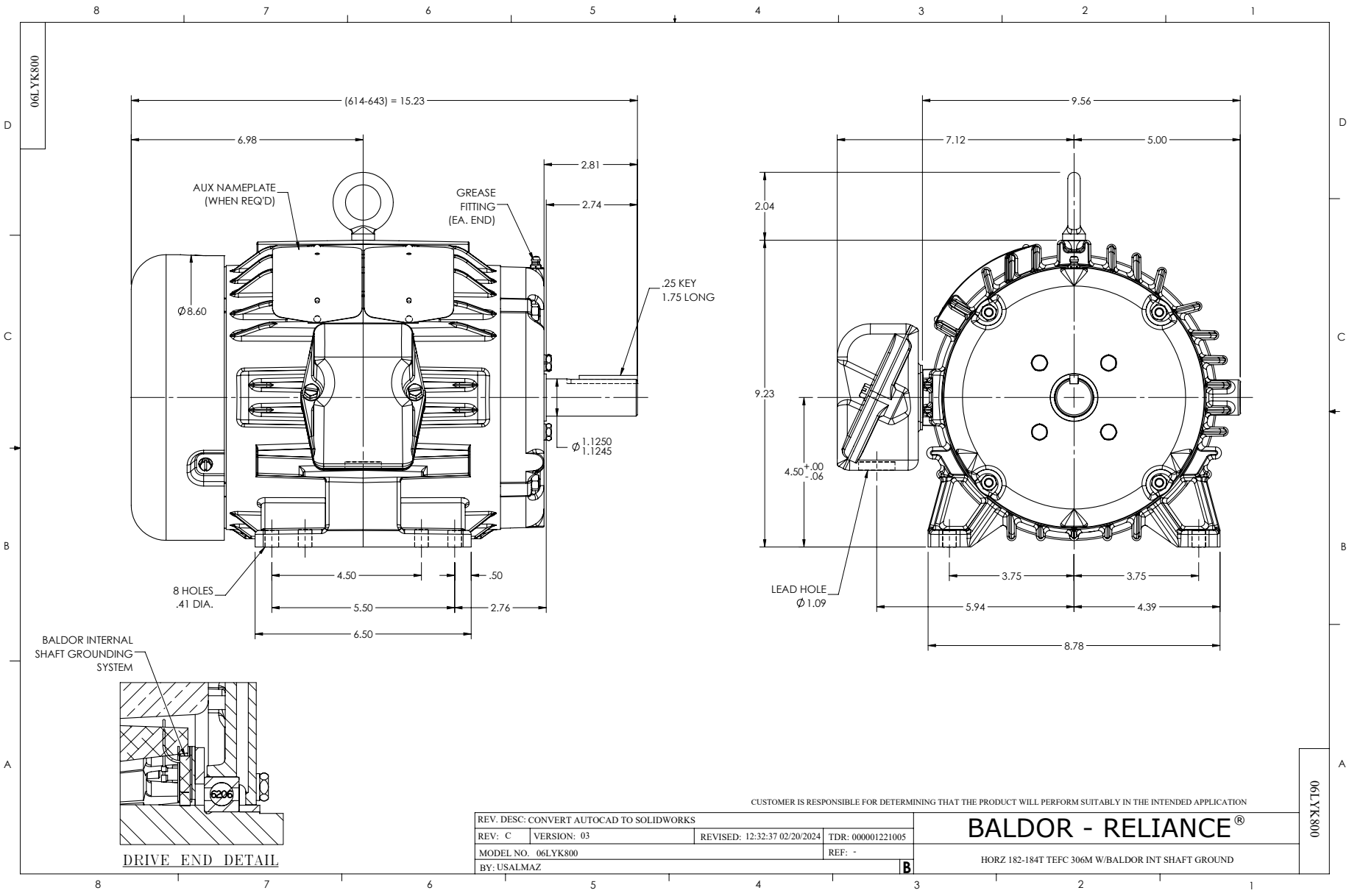
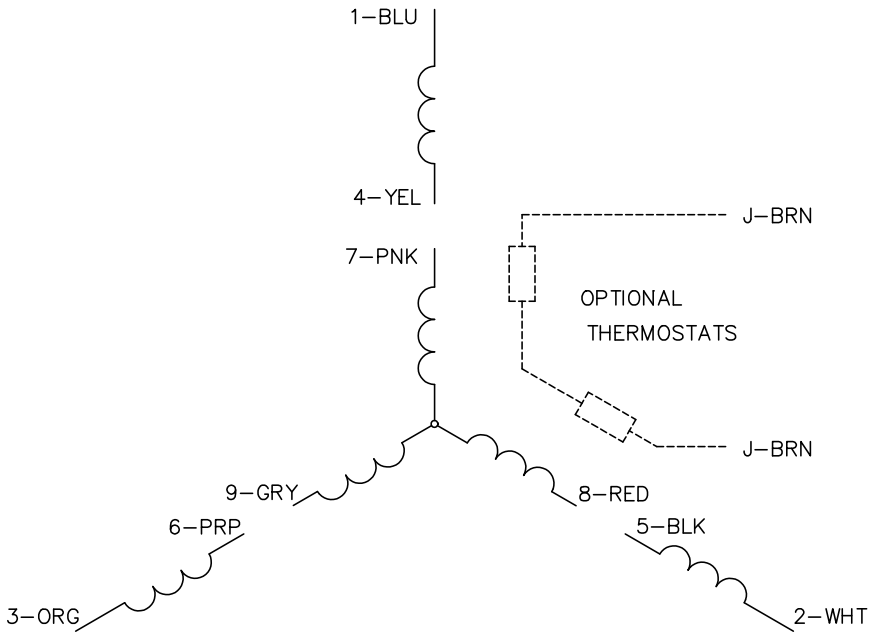
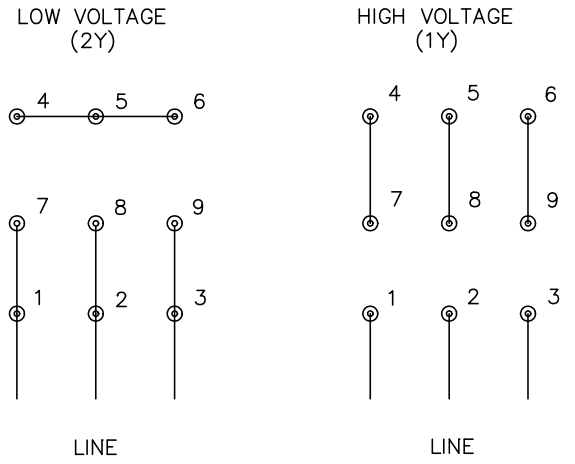


ABB Motors and Mechanical Inc.
WINDING # 06WGX181
3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
2/16/2025 ACPERF, record # 75468


06LYK800
(614-643) = 15.23
6.98
2.81
2.74
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EA. END)
.25 KEY 1.75 LONG
Ø8.60
Ø 1.1250 1.1245
8 HOLES .41 DIA.
4.50
.50
5.50
2.76
6.50
9.56
7.12
5.00
2.04
9.23
4.50 +.00 -.06
LEAD HOLE Ø 1.09
3.75
3.75
5.94
4.39
8.78
BALDOR INTERNAL SHAFT GROUNDING SYSTEM
6206
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SOLIDWORKS
REV: C
VERSION: 03
REVISED: 12:32:37 02/20/2024
TDR: 000001221005
MODEL NO. 06LYK800
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 182-184T TEFC 306M W/BALDOR INT SHAFT GROUND
06LYK800

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