ABB BALDOR RELIANCE

Customer information packet

EM3661T-5

32M 4P TEFC HOR 182T SUPER E
Class - None
Division - Not Applicable

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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	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
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	3.300 A @ 575.0 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	E
Type	AC
Mech. spec.	06C101
Base	
Status	PRD/A
Elec. spec.	06WGX319
Layout	06LYC101
Eff. date	08-05-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	12-14-2018

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
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 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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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.	EM3661T-5								
SPEC.	06C101X319G1								
HP	3								
VOLTS	575								
AMP	3.3								
RPM	1755								
FRAME	182T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	77						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	SFA 3.5								

Accessories

Part number	Description	Multiplier
36-1749	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 75292
Typical performance - not guaranteed values

Winding: 06WGX319-R001	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	9.17 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			3.3	**Breakdown Torque**	20.9 LB-FT
R.P.M.			1755	**Pull-up Torque**	11.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12.71 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	18.81 A
Service Factor (S.F.)			1.15	**No-load Current**	1.29 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	6.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	41.1
				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	54	74	81	84	85	84	85
Efficiency	86.9	89.6	89.6	88.1	86.2	83.1	87
Speed	1785	1769	1753	1734	1711	1684	1720
Line amperes	1.57	2.17	2.94	3.81	4.83	6.1	4.42

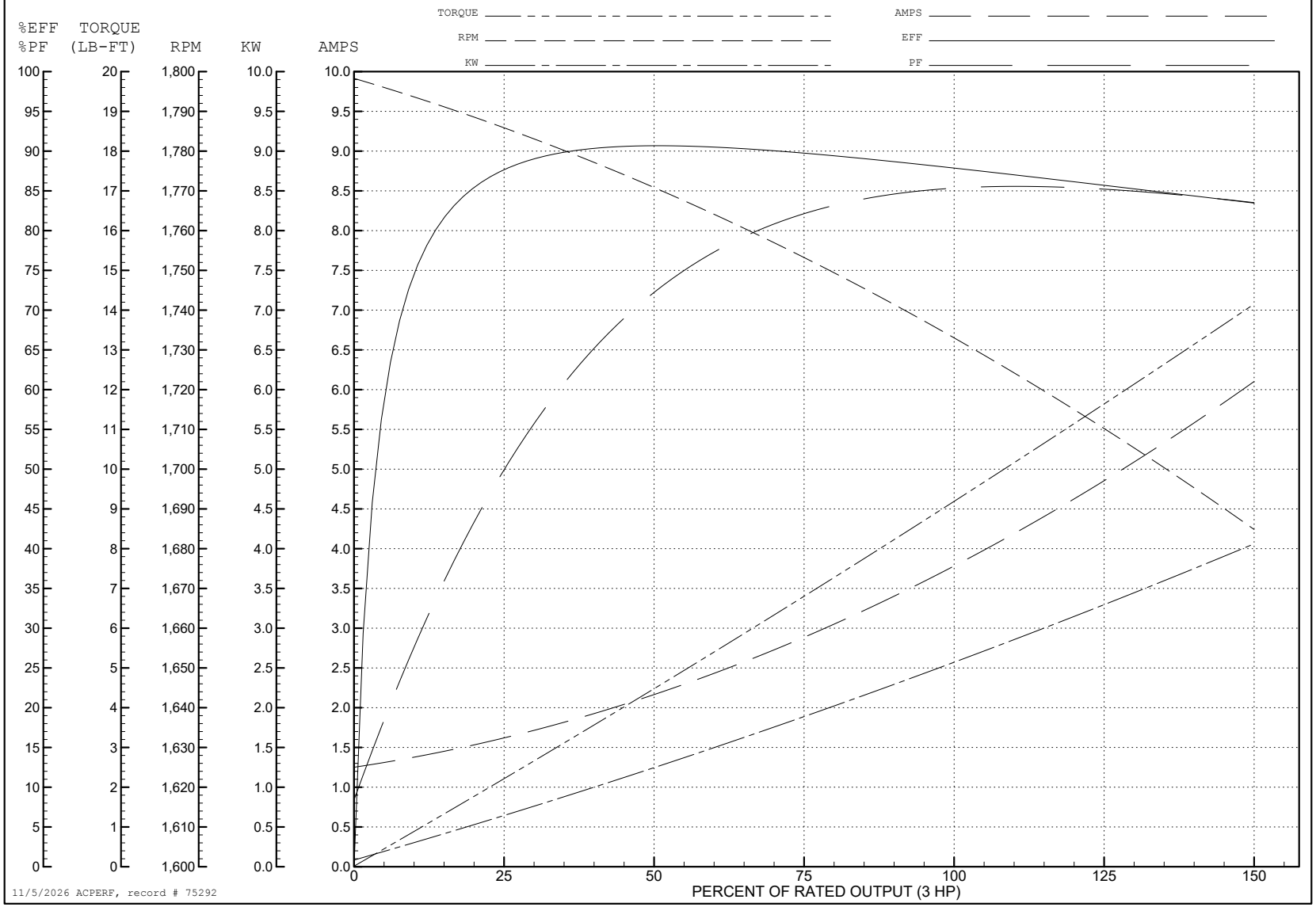
ABB Motors and Mechanical Inc.

WINDING # 06WGX319

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=20.9 PU=11.4 LR=12.71 LRA=18.81



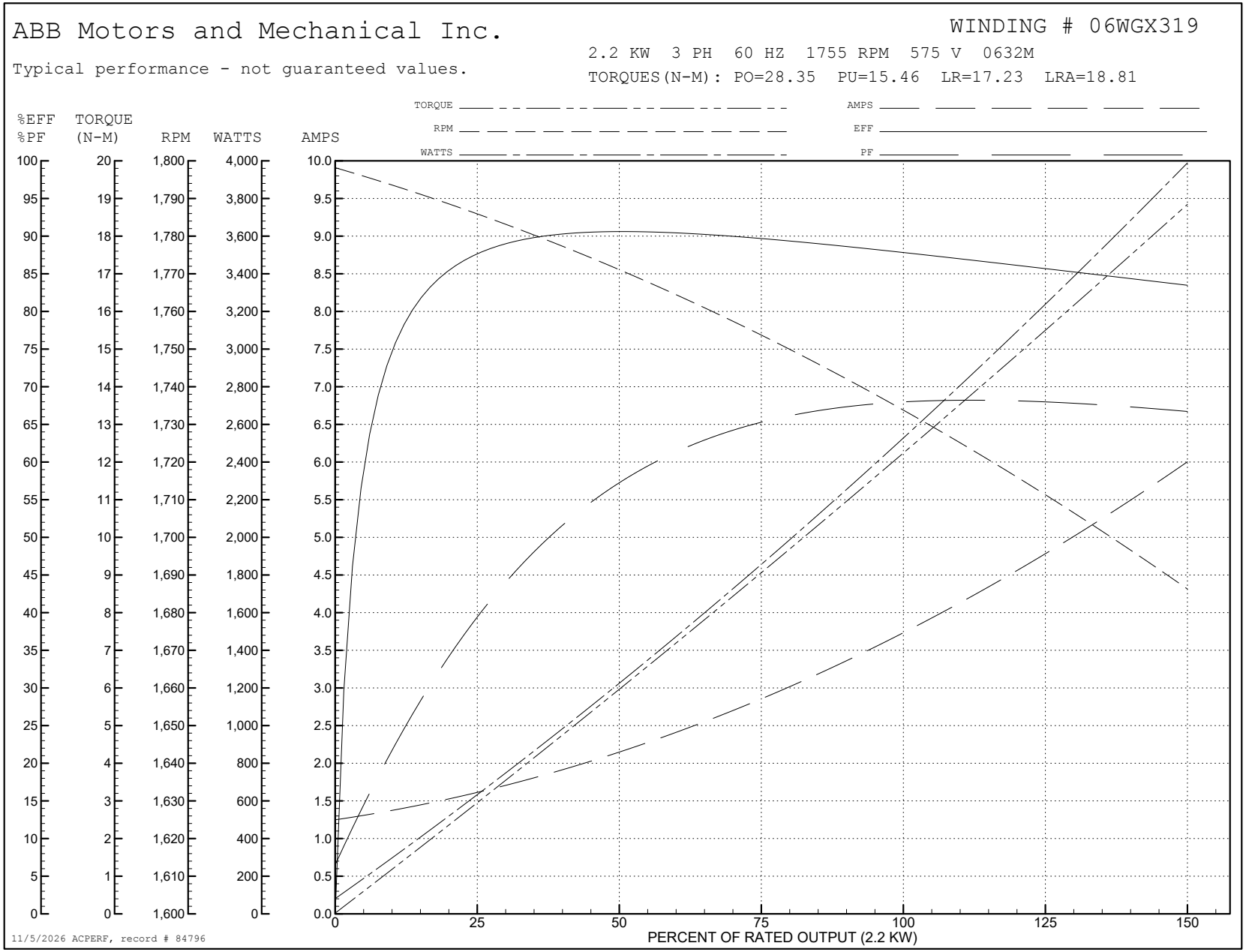
AC Induction Motor Performance Data
Record # 84796
Typical performance - not guaranteed values

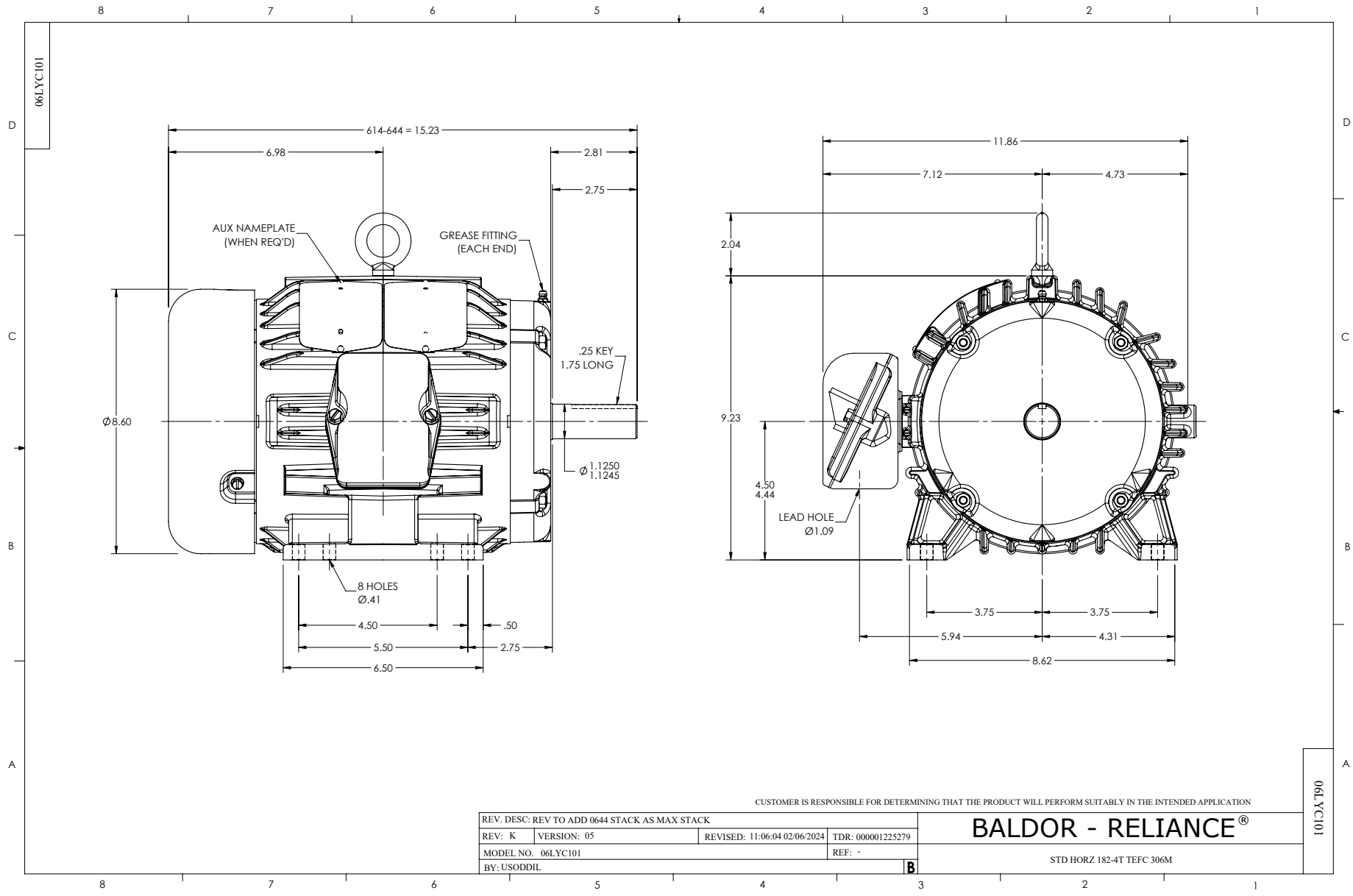
Winding: 06WGX319-R001	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (KW)			2.2	**Full Load Torque**	12.21 N-M
Volts			575	**Start Configuration**	direct on line
Full Load Amps			3.3	**Breakdown Torque**	28.35 N-M
R.P.M.			1755	**Pull-up Torque**	15.46 N-M
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.23 N-M
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	18.81 A
Service Factor (S.F.)			1.15	**No-load Current**	1.29 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	6.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.0126 kg-m²

Load Characteristics 575 V, 60 Hz, 2.2 KW

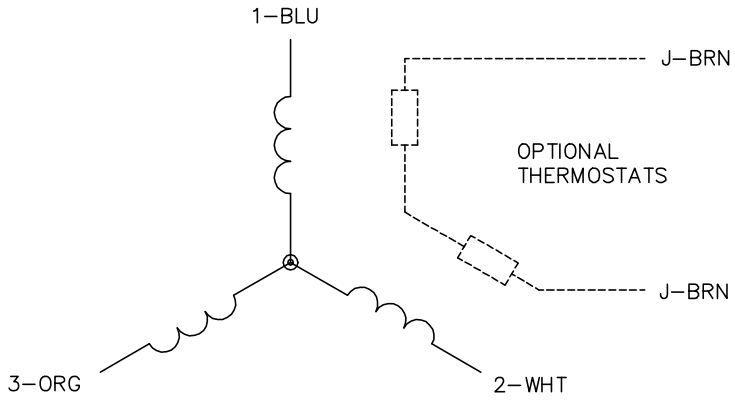
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	59	65	67	68	67	68
Efficiency	86.7	89.8	89.5	88.1	86.3	83.1	87
Speed	1785	1769	1753	1735	1713	1685	1722
Line amperes	1.56	2.16	2.91	3.76	4.75	6	4.35

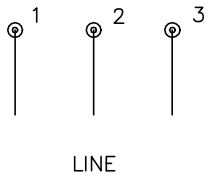

ABB Motors and Mechanical Inc.
WINDING # 06WGX319
Typical performance - not guaranteed values.
2.2 KW 3 PH 60 HZ 1755 RPM 575 V 0632M
TORQUES(N-M): PO=28.35 PU=15.46 LR=17.23 LRA=18.81
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (N-M)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2.2 KW)
11/5/2026 ACPERF, record # 84796


06LYC101
614-644 = 15.23
6.98
2.81
2.75
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EACH END)
.25 KEY
1.75 LONG
Ø8.60
Ø 1.1250
1.1245
8 HOLES
Ø.41
4.50
.50
5.50
2.75
6.50
11.86
7.12
4.73
2.04
9.23
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.94
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REV TO ADD 0644 STACK AS MAX STACK
REV: K
VERSION: 05
REVISED: 11:06:04 02/06/2024
TDR: 000001225279
MODEL NO. 06LYC101
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 306M
06LYC101

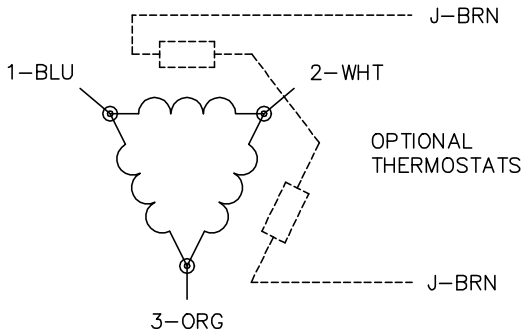
CD0006

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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