ABB BALDOR RELIANCE

Customer information packet

VECP83660T-4

3HP, 3450RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 6:18:01 PM

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	3.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	X
Type	AC
Mech. spec.	06G105
Base	
Status	PRD/A
Elec. spec.	06WGW822
Layout	06LYG105
Eff. date	08-15-2022
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	05-17-2010

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
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	2
Overall Length	16.69 IN
Power Factor	94
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	Shaft Slinger
Speed	3450 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

NP4328								
CAT.NO.	VECP83660T-4							
SPEC.	06G105W822G2							
HP	3 TE			**IP**	56			
VOLTS	460							
AMPS	3.4							
R.P.M.	3450							
FRAME	182TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES.**	B		**CLASS**	F
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA NOM. EFF.	88.5	**P.F.**	94					
GUAR. MIN. EFF.	86.5	**CC**	010A					
T. CODE	T3C	**TEMP=**	160					

NP3186							
SPEC.	06G105W822G2						
ABMA DE BRG	30BC02XP30X						
ABMA ODE BRG	30BC02X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	121	**ROTOR BARS**	28	**STATOR BARS**	36		
MAX. R.P.M.	5400	**MAX. KVAR**	N/A				
INV.TYPE	PWM						
T=	160						
CHP	60	**TO**	90				
CT	6	**TO**	60				
VT	3	**TO**	60				
HTR-VOLTS	N/A	**HTR-AMPS**	N/A				
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			N/A		

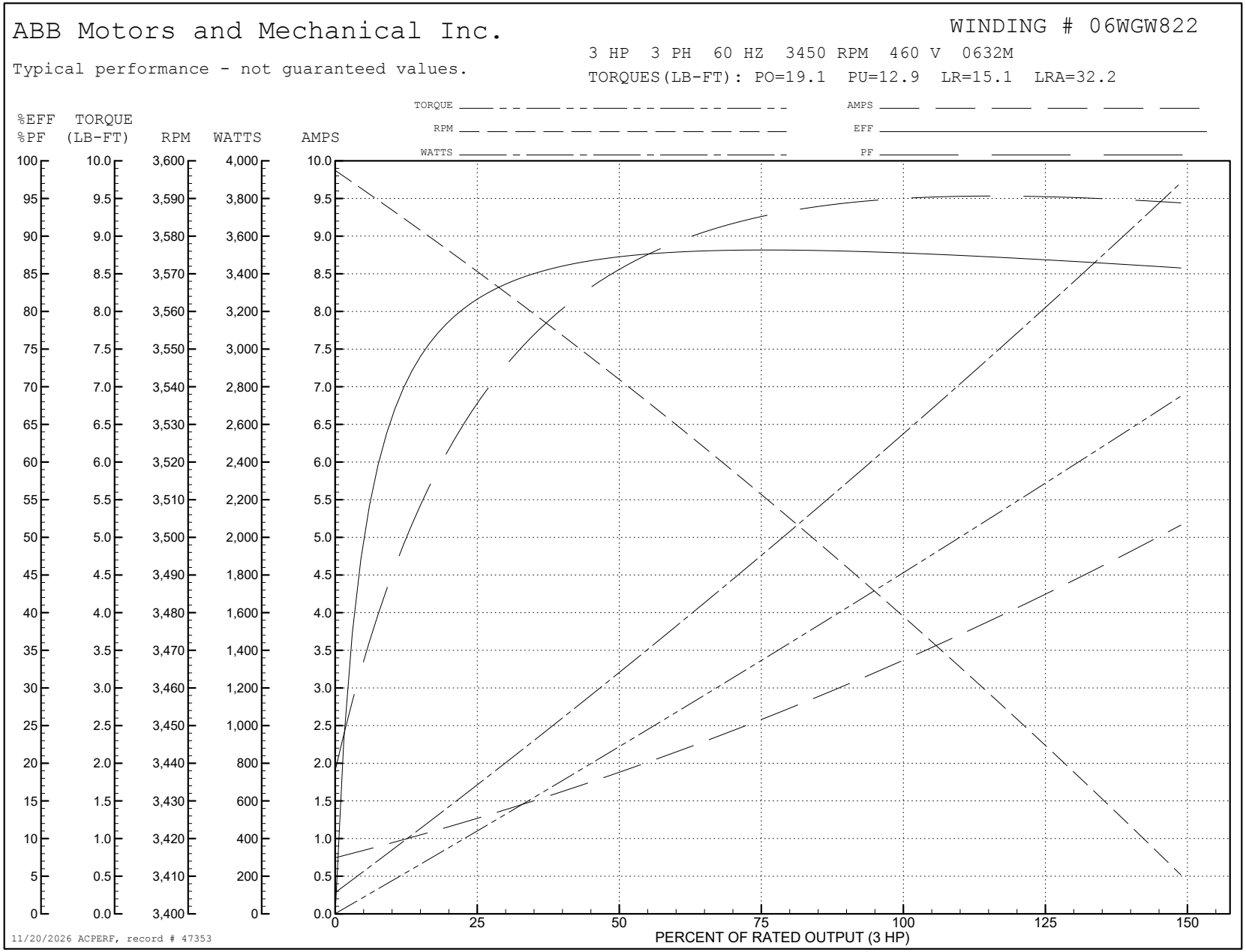
AC Induction Motor Performance Data
Record # 47353
Typical performance - not guaranteed values

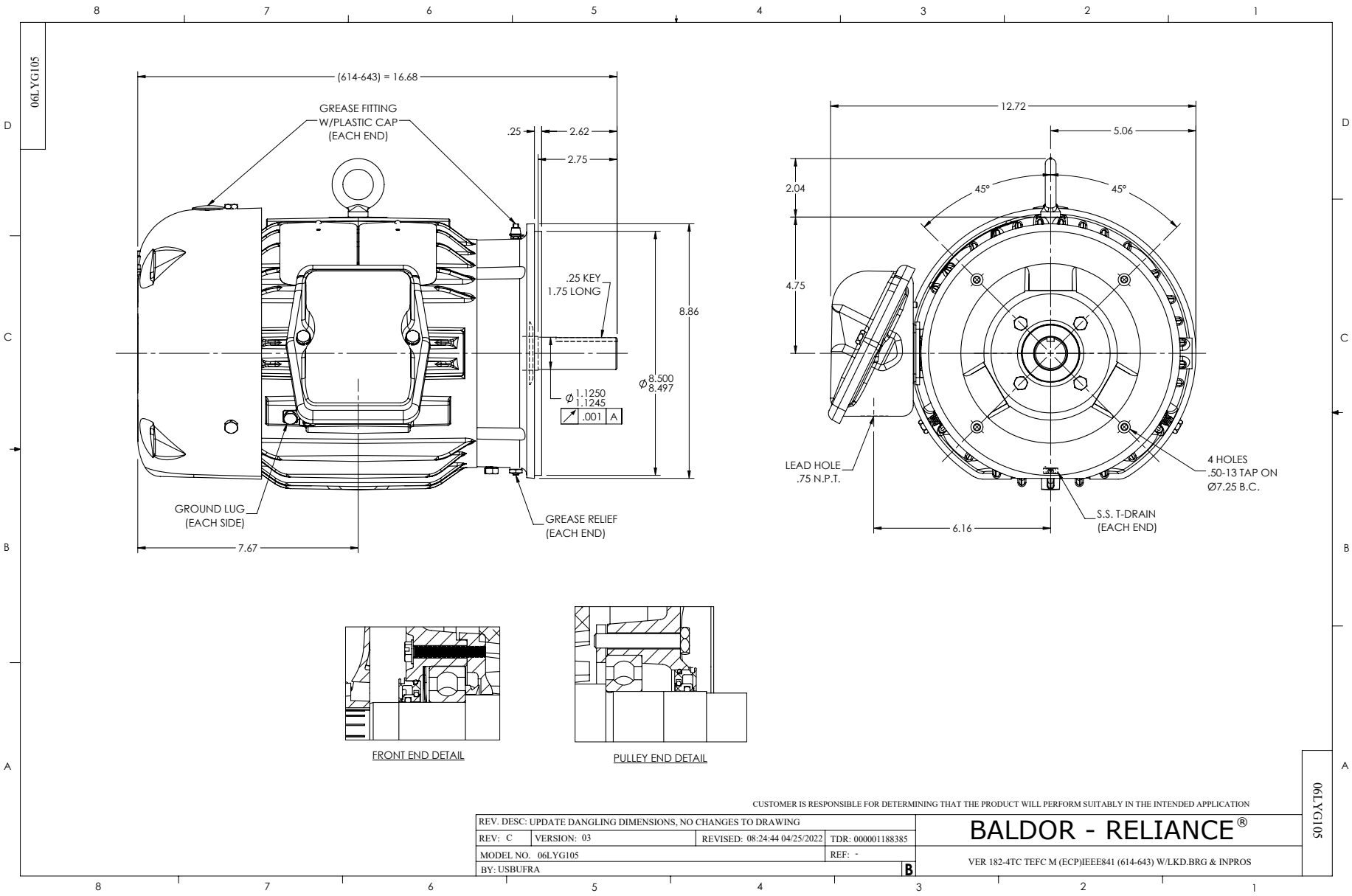
Winding: 06WGW822-R012	**Type:** 0632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.52 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			3.4	**Breakdown Torque**	19.1 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.2 A
Service Factor (S.F.)			1.15	**No-load Current**	0.8 A
NEMA Nom. Eff.	88.5	**Power Factor**	94	**Line-line Res. @ 25ºC**	4.03 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C
				Locked-rotor Power Factor	42.1
				Rotor inertia	0.144 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

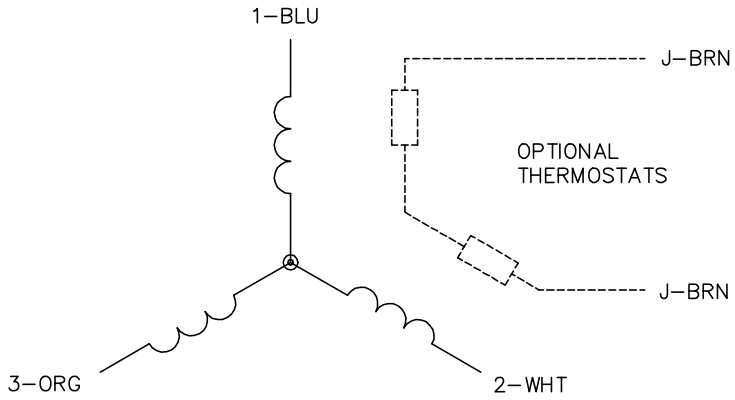
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	86	92	94	95	95	95
Efficiency	82	87.8	88.8	88.4	87.4	85.9	87.8
Speed	3569	3542	3512	3480	3447	3409	3460
Line amperes	1.18	1.85	2.58	3.4	4.25	5.13	3.91

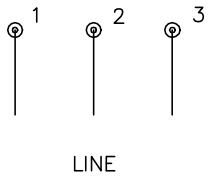

ABB Motors and Mechanical Inc.
WINDING # 06WGW822
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 3450 RPM 460 V 0632M
TORQUES(LB-FT): PO=19.1 PU=12.9 LR=15.1 LRA=32.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/20/2026 ACPERF, record # 47353


06LYG105
(614-643) = 16.68
GREASE FITTING
W/PLASTIC CAP
(EACH END)
.25
2.62
2.75
.25 KEY
1.75 LONG
8.86
Ø 8.500
8.497
Ø 1.1250
1.1245
.001 A
GROUND LUG
(EACH SIDE)
GREASE RELIEF
(EACH END)
7.67
12.72
5.06
2.04
45°
45°
4.75
LEAD HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
S.S. T-DRAIN
(EACH END)
6.16
FRONT END DETAIL
PULLEY END DETAIL
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: C
VERSION: 03
REVISED: 08:24:44 04/25/2022
TDR: 000001188385
MODEL NO. 06LYG105
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
VER 182-4TC TEFC M (ECP)IEEE841 (614-643) W/LKD.BRG & INPROS
06LYG105

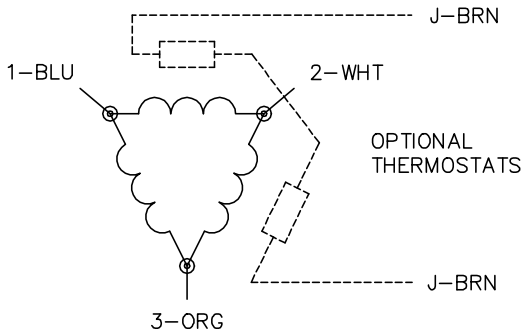
CD0006

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

SH 1 of 1