ABB BALDOR RELIANCE

Customer information packet

EM3212T-8

5HP, 3450RPM, 3PH, 60HZ, 182T, 3622M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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	13.800 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	13.8 a
Insulation Class	F

Part Detail

Revision	R
Type	AC
Mech. spec.	36B101
Base	
Status	PRD/A
Elec. spec.	36WGS553
Layout	36LYB101
Eff. date	10-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	08-01-2015

Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
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	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

NP3553L											
CAT.NO.	EM3212T-8										
SPEC	36B101S553G1										
HP	5										
VOLTS	200										
AMPS	13.8										
RPM	3450										
FRAME	182T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	K	**DES**	A	**CLASS**	F				
NEMA NOM. EFF	86.5	**PF**	91								
RATING	40C AMB-CONT										
CC	010A										
ENCL	OPSB	**SER**									
DE	6206		**ODE**	6205							
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

AC Induction Motor Performance Data
Record # 61408
Typical performance - not guaranteed values

Winding: 36WGS553-R001	**Type:** 3622M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.66 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			13.8	**Breakdown Torque**	30.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.4 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	116 A
Service Factor (S.F.)			1.15	**No-load Current**	4.28 A
NEMA Nom. Eff.	86.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.555 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	49.2
				Rotor inertia	0.103 LB-FT2

Load Characteristics 200 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	81	88	91	92	93	92
Efficiency	81.3	86.7	87.8	86.9	85.6	83.7	86.1
Speed	3567	3536	3505	3468	3428	3385	3444
Line amperes	5.48	7.79	10.6	13.7	17.2	20.8	15.8

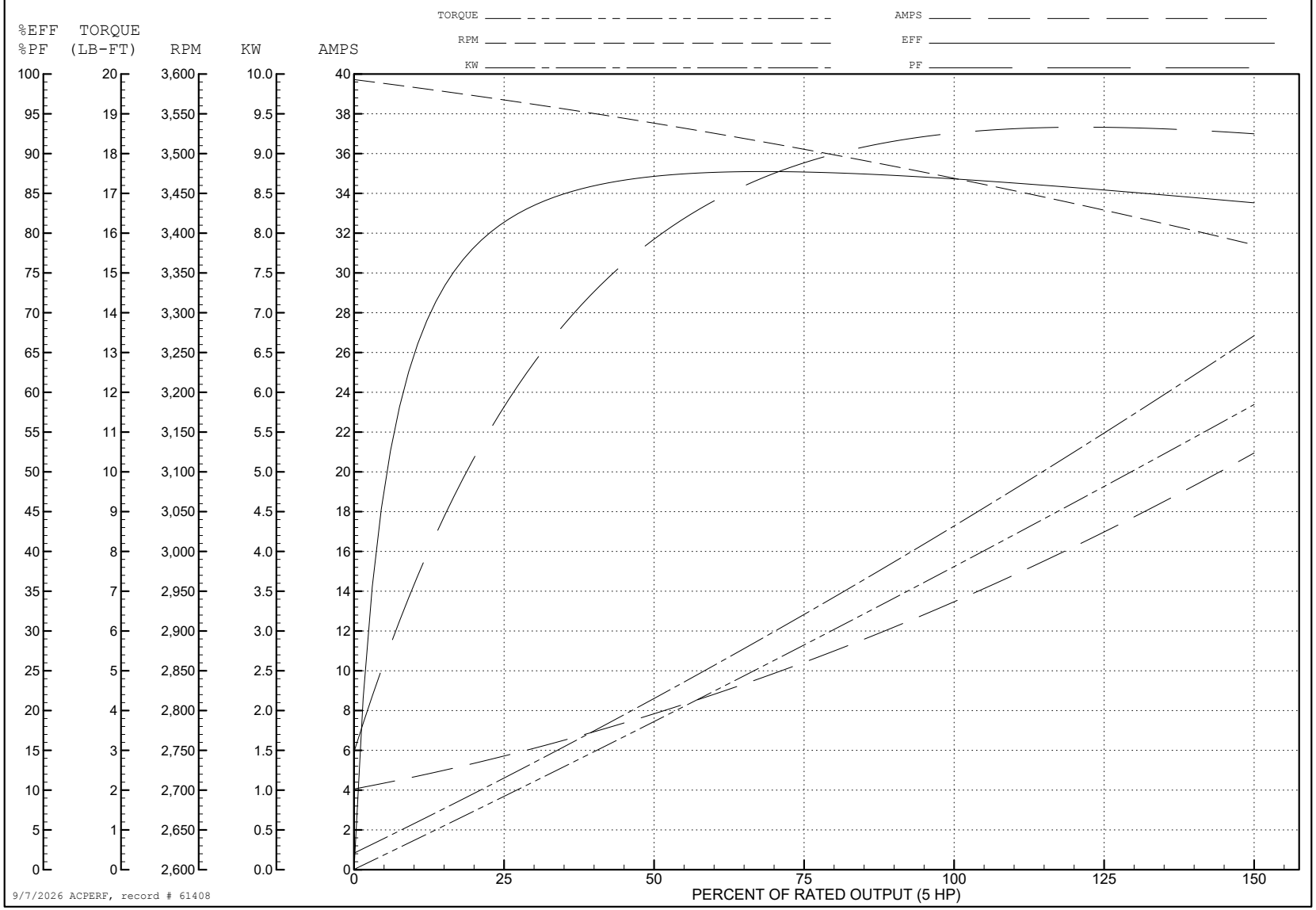
ABB Motors and Mechanical Inc.

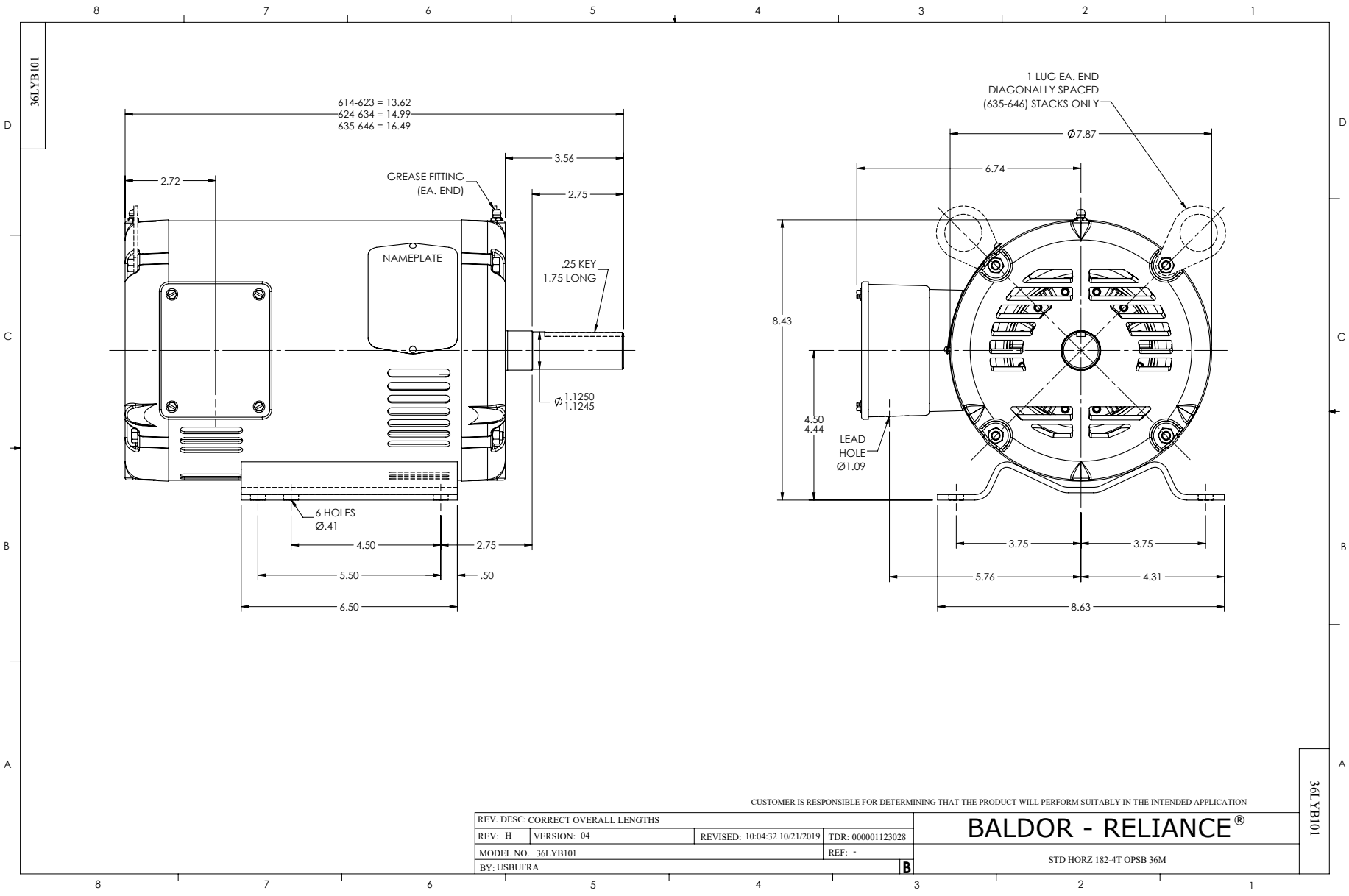
WINDING # 36WGS553

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 200 V 3622M

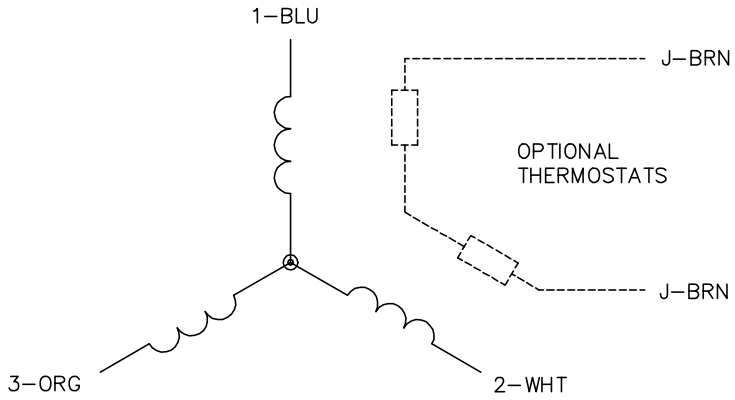
TORQUES(LB-FT): PO=30.5 PU=18 LR=22.4 LRA=116

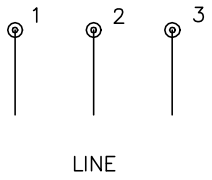



36LYB101
614-623 = 13.62
624-634 = 14.99
635-646 = 16.49
2.72
GREASE FITTING
(EA. END)
3.56
2.75
NAMEPLATE
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
6 HOLES
Ø.41
4.50
2.75
5.50
.50
6.50
1 LUG EA. END
DIAGONALLY SPACED
(635-646) STACKS ONLY
Ø7.87
6.74
8.43
4.50
4.44
LEAD
HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL LENGTHS
REV: H
VERSION: 04
REVISED: 10:04:32 10/21/2019
TDR: 000001123028
MODEL NO. 36LYB101
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T OPSB 36M
36LYB101

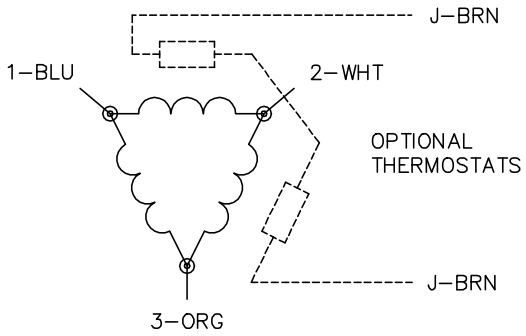
CD0006

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