ABB BALDOR RELIANCE

Customer information packet

EM3211TA

3HP, 1755RPM, 3PH, 60HZ, 182T, 3632M, 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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	CURUS
	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	8.900 A @ 208.0 V
	8.800 A @ 230.0 V
	4.400 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
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	36B101
Base	
Status	PRD/A
Elec. spec.	36WGS576
Layout	36LYB101
Eff. date	10-14-2024
CD Diagram	CD0007
Poles	04
Leads	12#16
Proprietary	False
Created date	09-17-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
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	12 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	75
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	1760 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

	NP2601L									
CAT.NO.	EM3211TA									
SPEC.	36B101S576G1									
HP	3									
VOLTS	230/460									
AMP	8.8/4.4									
RPM	1760									
FRAME	182T		**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F			
NEMA-NOM-EFF	89.5	**PF**	75							
RATING	40C AMB-CONT									
CC	010A									
DE	6206		**ODE**	6205						
ENCL	OPSB	**SN**								

AC Induction Motor Performance Data
Record # 41081
Typical performance - not guaranteed values

Winding: 36WGS576-R001	**Type:** 3631M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.13 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.8/4.4	**Breakdown Torque**	32.8 LB-FT
R.P.M.			1760	**Pull-up Torque**	21.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	23.6 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	29.6 A
Service Factor (S.F.)			1.15	**No-load Current**	2.3 A
NEMA Nom. Eff.	89.5	**Power Factor**	75	**Line-line Res. @ 25ºC**	3.9718 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps				**Temp. Rise @ S.F. Load**	30°C

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	56	68	75	79	82	77
Efficiency	82.3	87.9	89	88.7	87.7	86.3	88.1
Speed	1786.7	1774.4	1761.1	1746.7	1731.5	1713.8	1738
Line amperes	2.5	2.93	3.54	4.25	5.08	5.99	4.75

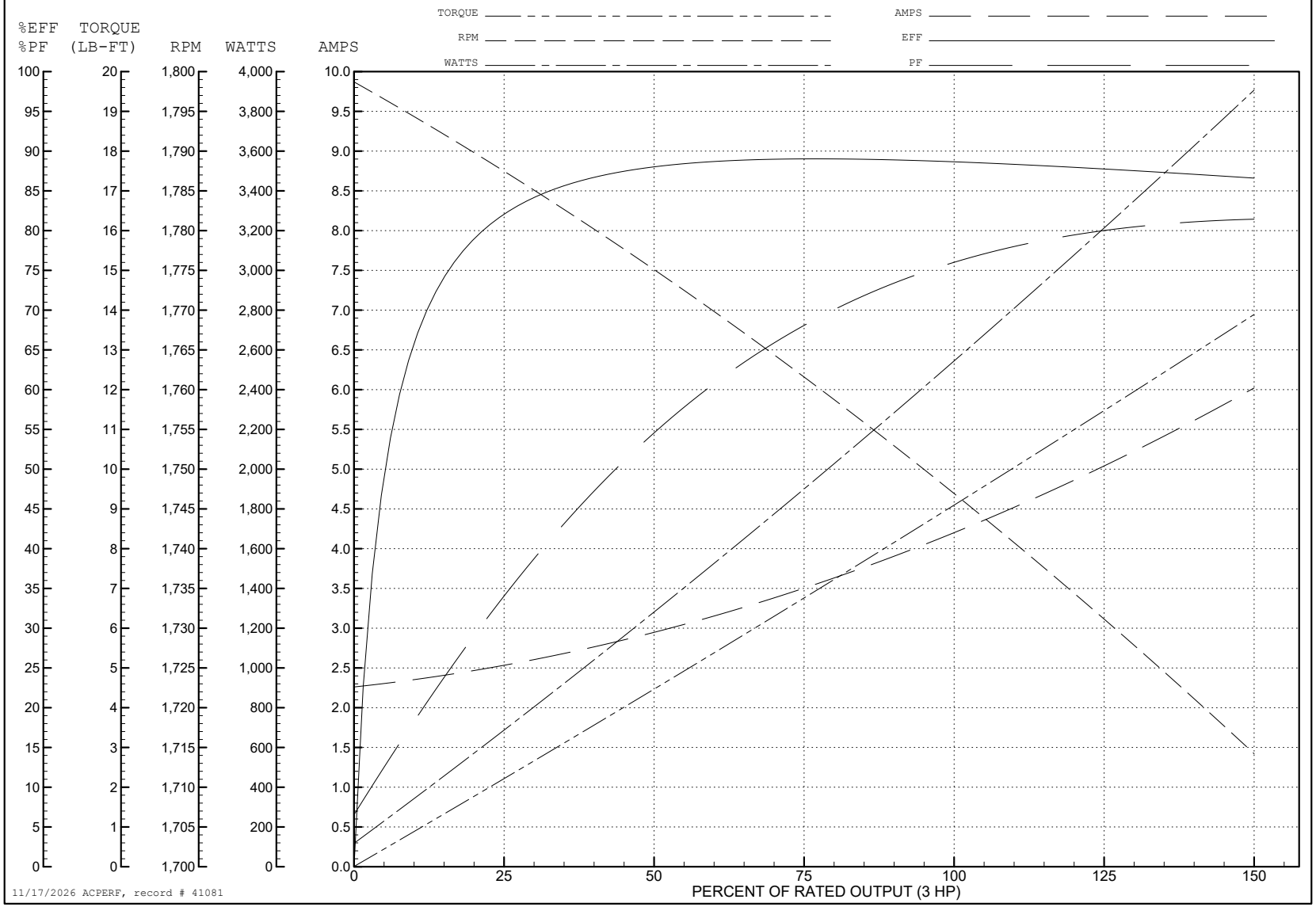
ABB Motors and Mechanical Inc.

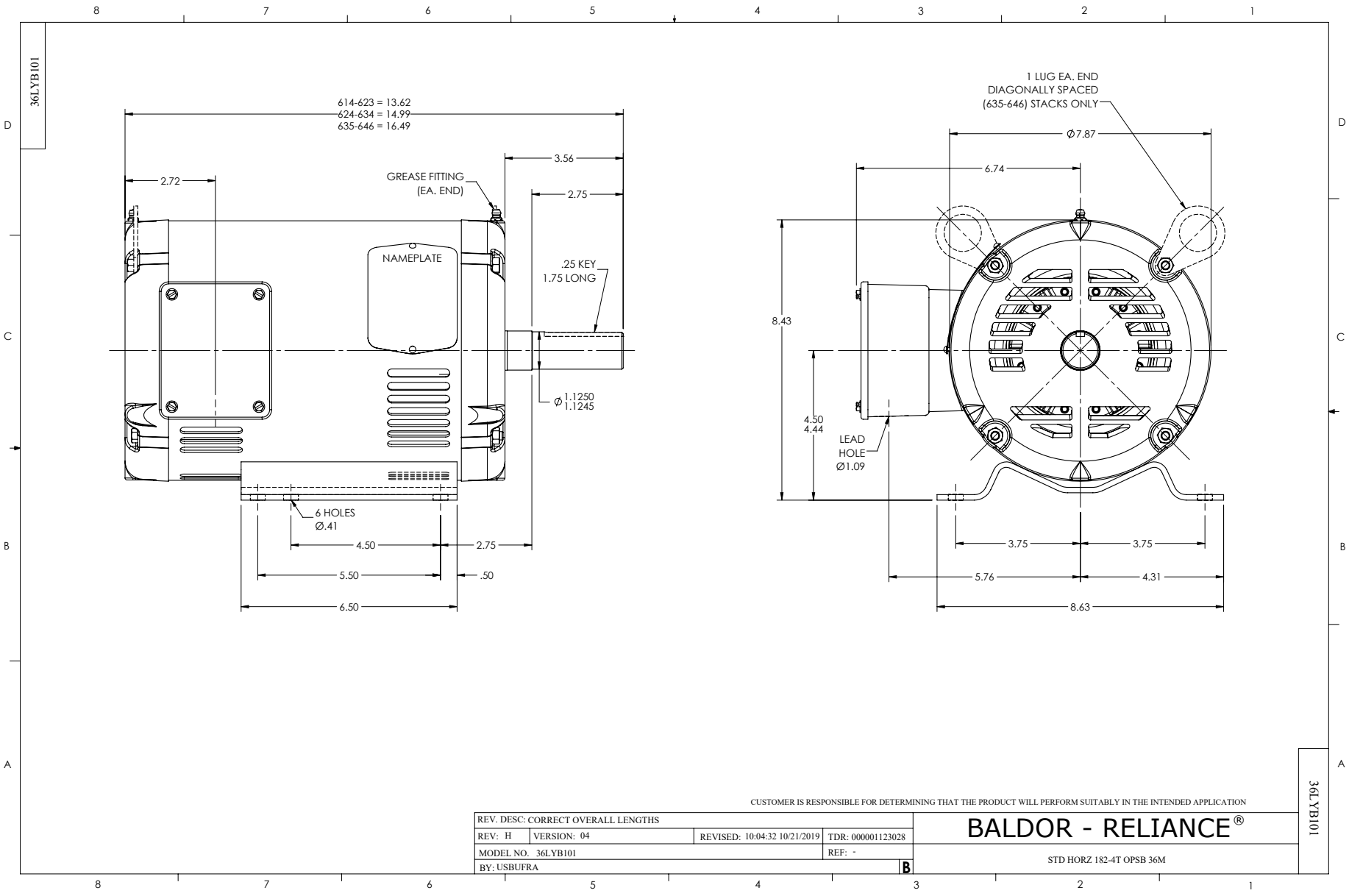
WINDING # 36WGS576

3 HP 3 PH 60 HZ 1760 RPM 460 V 3631M

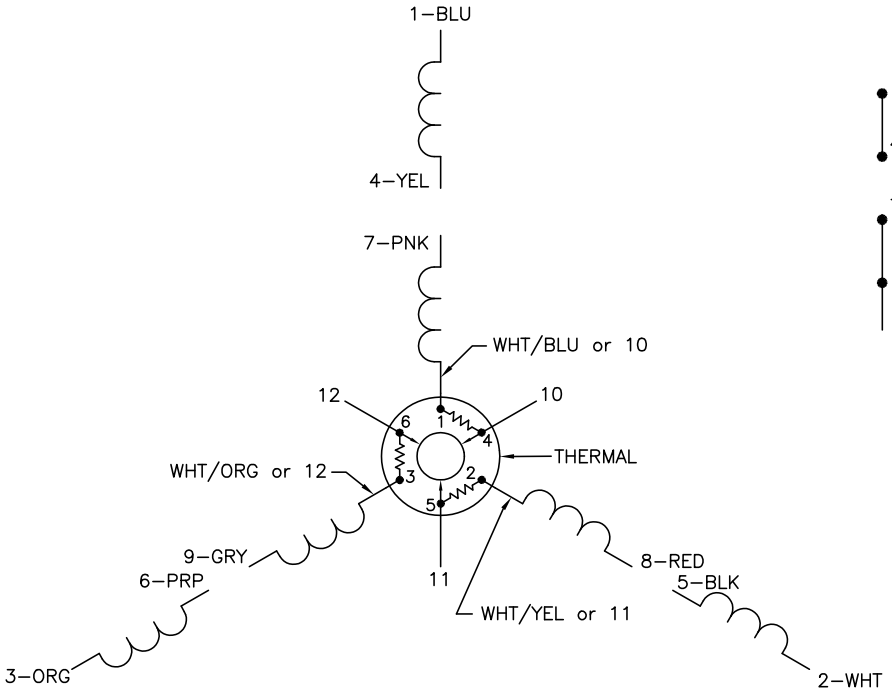
Typical performance - not guaranteed values.

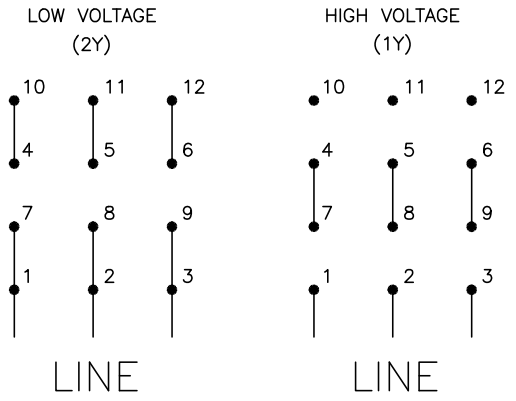
TORQUES(LB-FT): PO=32.8 PU=21.4 LR=23.6 LRA=29.6




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

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007