ABB BALDOR RELIANCE

Customer information packet

M3218T

5HP, 1750RPM, 3PH, 60HZ, 184T, 3630M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	184T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	14.400 A @ 230.0 V
	15.600 A @ 208.0 V
	7.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	36B101
Base	
Status	NLA/A
Elec. spec.	36WGS034
Layout	36LYB101
Eff. date	10-12-2010
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-03-2008

High Voltage Full Load Amps	7.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	No Slinger
Speed	1750 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

NP1256L									
CAT.NO.	M3218T								
SPEC.	36B101S034H1								
HP	5								
VOLTS	208-230/460								
AMP	15.6-14.4/7.2								
RPM	1750								
FRAME	184T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	B		
NEMA-NOM-EFF	87.5	**PF**	74						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	OPSB	**SN**							

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 43516
Typical performance - not guaranteed values

Winding: 36WGS034-R001	**Type:** 3630M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.8 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			15.6-14.4/7.2	**Breakdown Torque**	53.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	29.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	48 A
Service Factor (S.F.)			1.15	**No-load Current**	4.21 A
NEMA Nom. Eff.	87.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	2.79 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	60°C
				Rotor inertia	0.279 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	66	74	78	82	76
Efficiency	76.4	85.4	87.5	87.8	87.2	85	87.4
Speed	1788	1778	1766	1754	1740	1721	1746
Line amperes	4.46	5.11	5.99	7.16	8.49	10.4	7.96

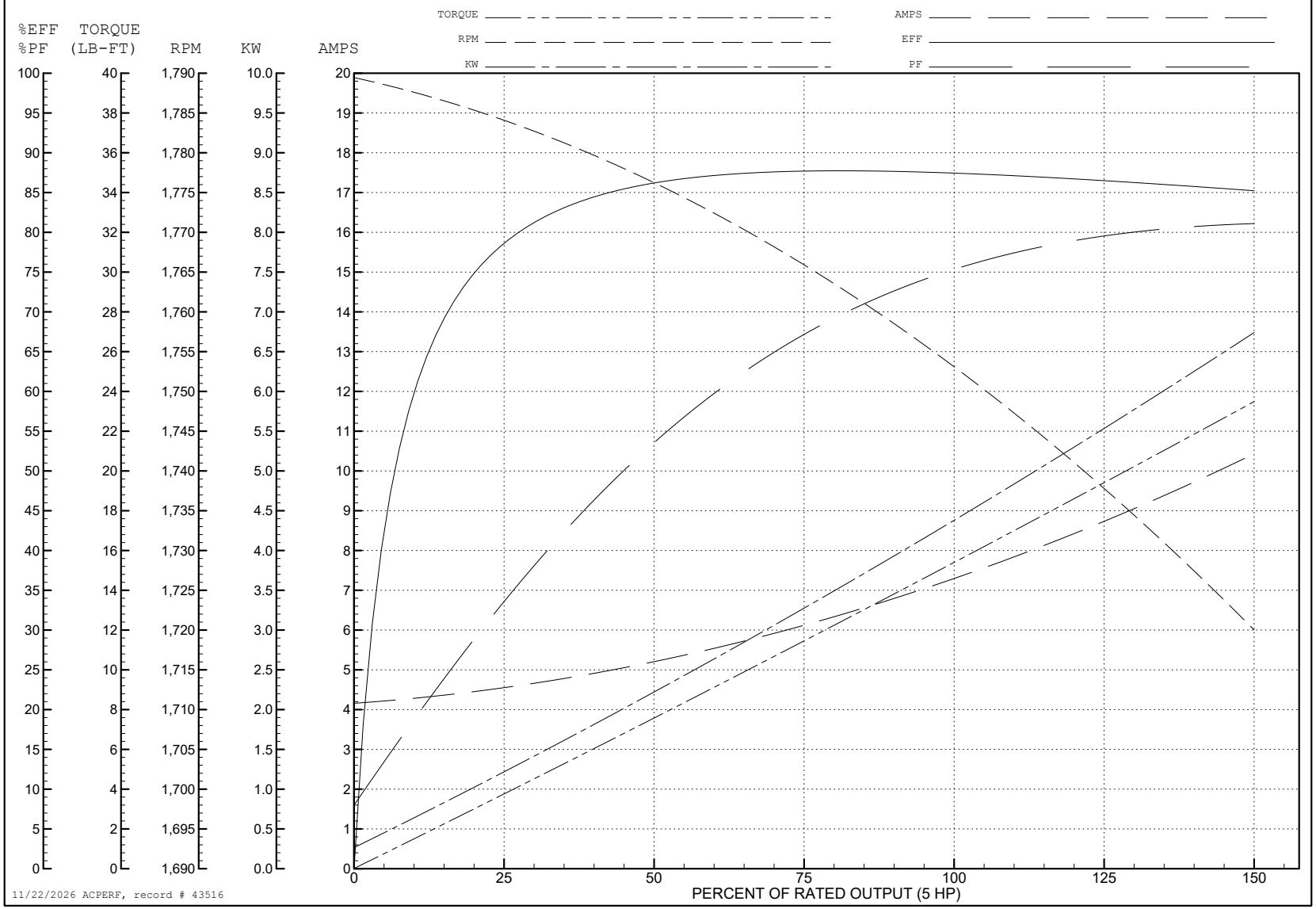
ABB Motors and Mechanical Inc.

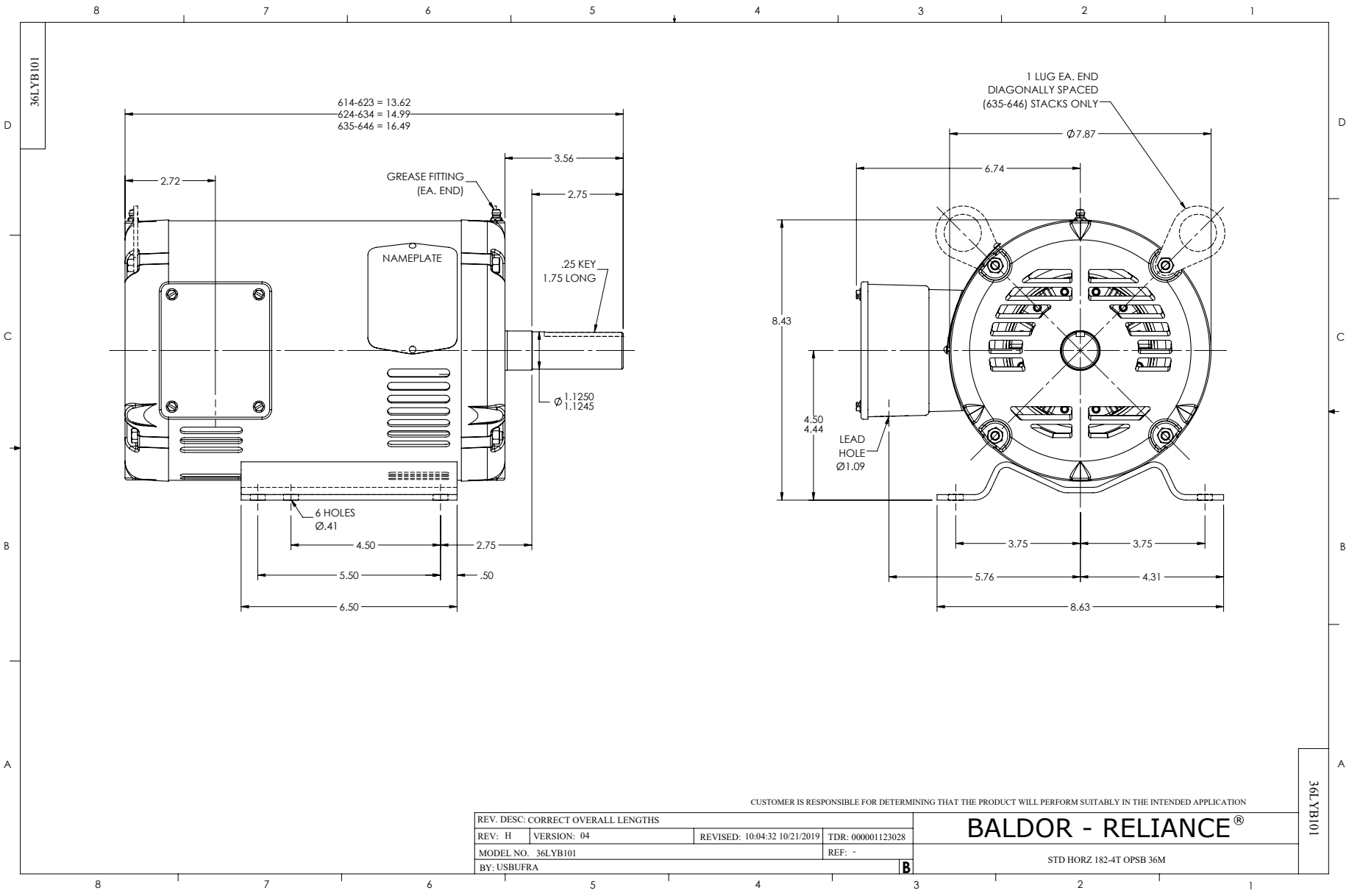
WINDING # 36WGS034

5 HP 3 PH 60 HZ 1750 RPM 460 V 3630M

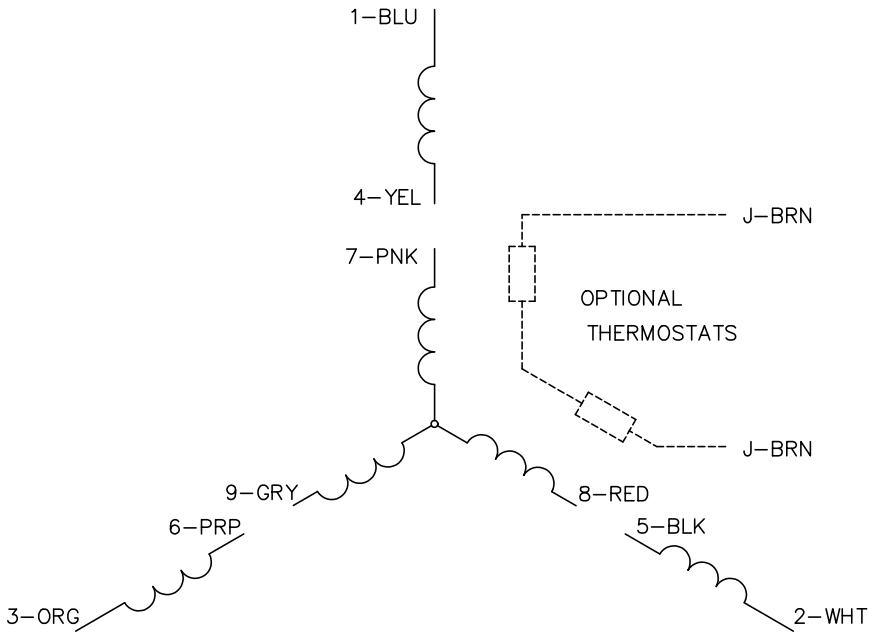
Typical performance - not guaranteed values.

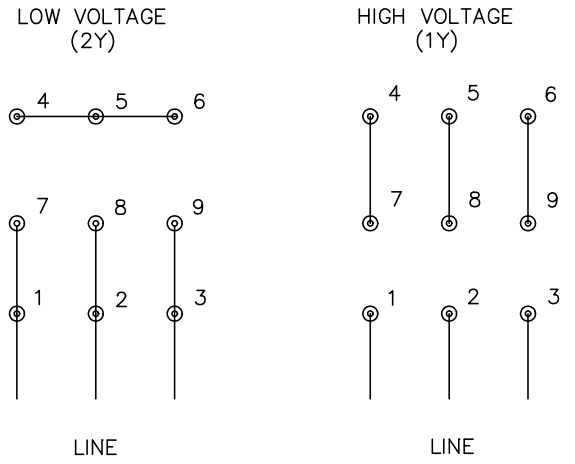
TORQUES(LB-FT): PO=53.8 PU=29.2 LR=34 LRA=48




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

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