Customer information packet

EBM3248T

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	184T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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
Brake Torque	15.0 lb-ft
Current @ Voltage	13.600 A @ 208.0 V
	6.400 A @ 460.0 V
	12.800 A @ 230.0 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	Brake Mounting

Part Detail

Revision	F
Type	AC
Mech. spec.	36B021
Base	
Status	PRD/A
Elec. spec.	36WGY404
Layout	36LYB021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-12-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard 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	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.06 IN
Power Factor	81
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

NP1259L									
CAT.NO.	EBM3248T								
SPEC.	36B021Y404G2								
HP	5								
VOLTS	230/460								
AMP	12.8/6.4								
RPM	1750								
FRAME	184T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	81						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	OPEN	**SN**							

AC Induction Motor Performance Data
Record # 53376
Typical performance - not guaranteed values

Winding: 36WGY404-R037	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			12.8/6.4	**Breakdown Torque**	52 LB-FT
R.P.M.			1750	**Pull-up Torque**	30 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	48 A
Service Factor (S.F.)			1.15	**No-load Current**	3.2 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.5 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	46°C
				Locked-rotor Power Factor	52
				Rotor inertia	0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	61	73	81	84	86	83
Efficiency	85	89.8	90.5	90	88.8	87.3	89.3
Speed	1786	1773	1761	1747	1732	1715	1738
Line amperes	3.5	4.2	5.2	6.4	7.8	9.3	7.2

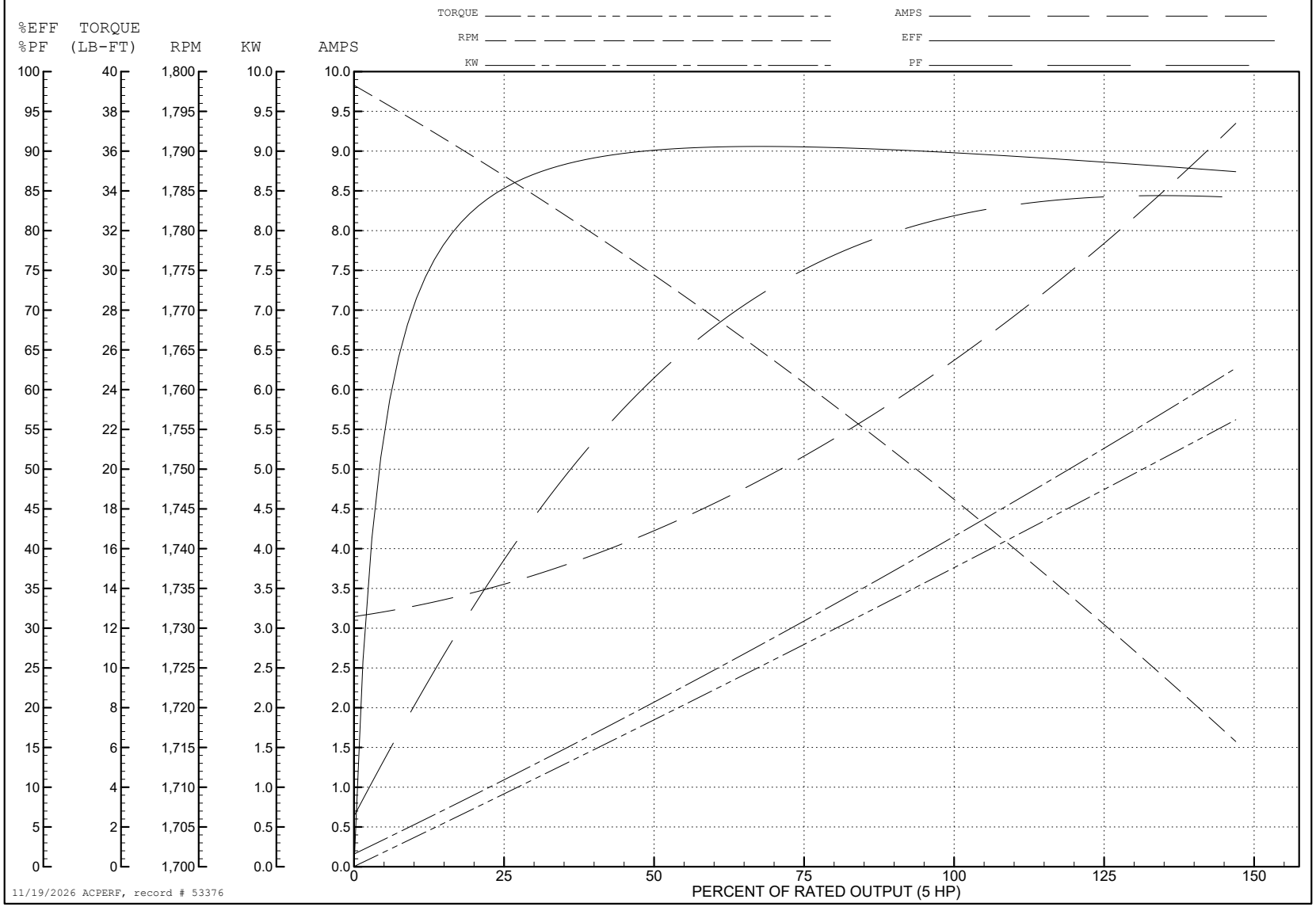
ABB Motors and Mechanical Inc.

WINDING # 36WGY404

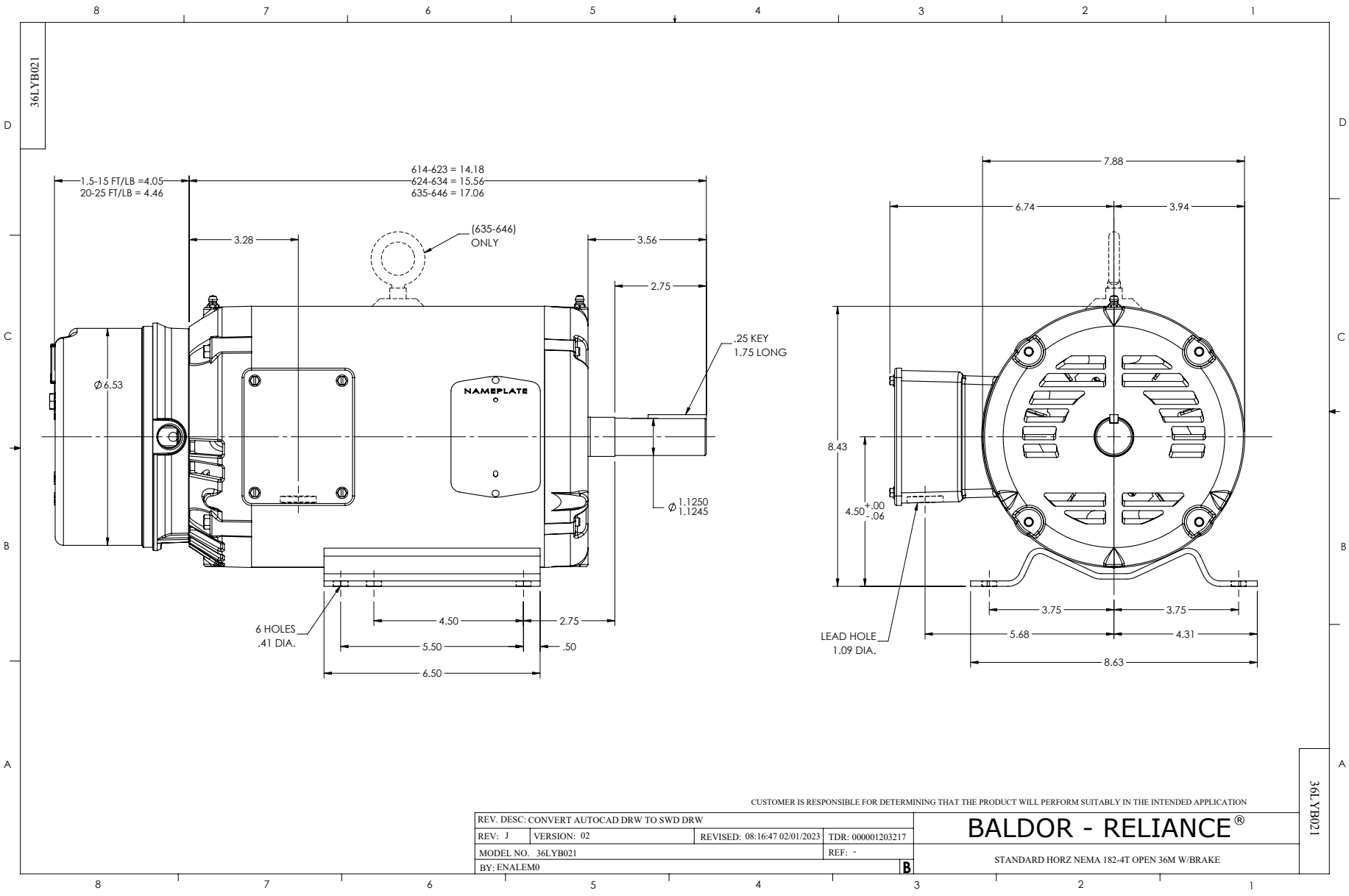
5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M

Typical performance - not guaranteed values.

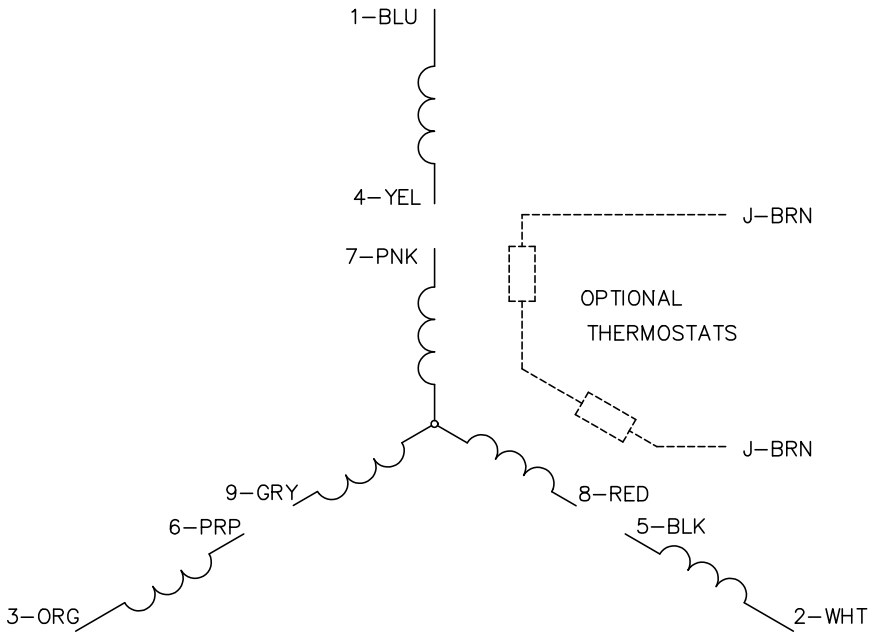
TORQUES(LB-FT): PO=52 PU=30 LR=32 LRA=48

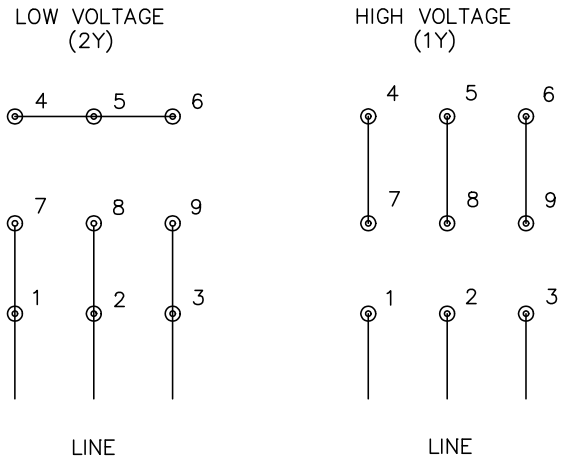


11/19/2026 ACPERF, record # 53376


36LYB021
1.5-15 FT/LB =4.05
20-25 FT/LB = 4.46
614-623 = 14.18
624-634 = 15.56
635-646 = 17.06
3.28
(635-646)
ONLY
3.56
2.75
.25 KEY
1.75 LONG
Ø 6.53
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.41 DIA.
4.50
2.75
5.50
.50
6.50
7.88
6.74
3.94
8.43
4.50 +.00 -.06
3.75
3.75
LEAD HOLE
1.09 DIA.
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: J
VERSION: 02
REVISED: 08:16:47 02/01/2023
TDR: 000001203217
MODEL NO. 36LYB021
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STANDARD HORZ NEMA 182-4T OPEN 36M W/BRAKE
36LYB021

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