ABB BALDOR RELIANCE

Customer information packet

EM3218TA

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

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Specifications

Enclosure	OPSB
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	CURUSEEV
	NEMA PREMIUM
	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	14.000 A @ 208.0 V
	6.600 A @ 460.0 V
	13.200 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	Standard
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	36H827
Base	
Status	PRD/A
Elec. spec.	36WGS536
Layout	36LYH827
Eff. date	03-30-2026
CD Diagram	CD0007
Poles	04
Leads	12#16
Proprietary	False
Created date	11-12-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.17 IN
Power Factor	80
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	Automatic Thermal Overload

Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP2601L									
CAT.NO.	EM3218TA								
SPEC.	36H827S536G1								
HP	5								
VOLTS	230/460								
AMP	13.2/6.6								
RPM	1750								
FRAME	184T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	80						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	OPSB	**SN**							

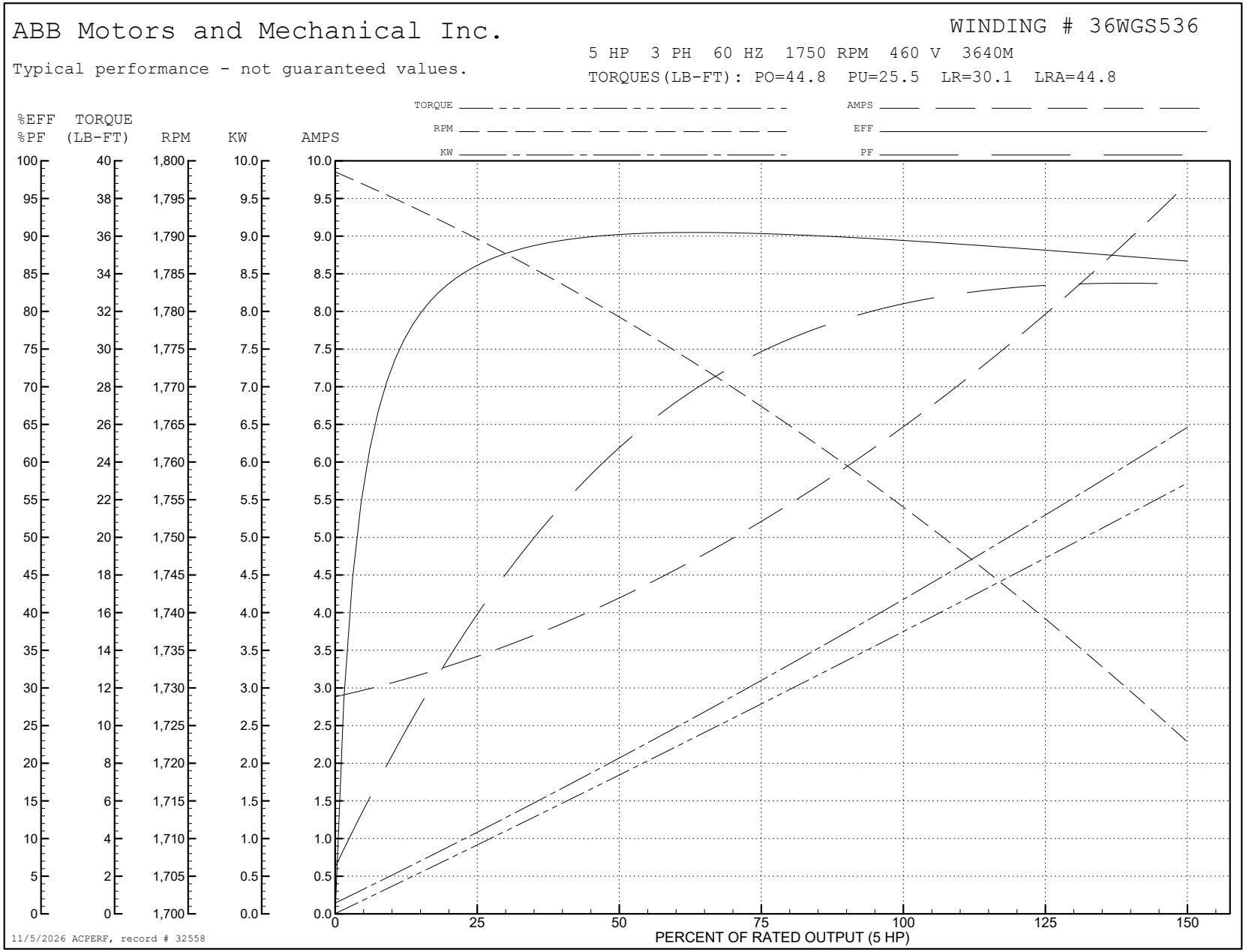
AC Induction Motor Performance Data
Record # 32558
Typical performance - not guaranteed values

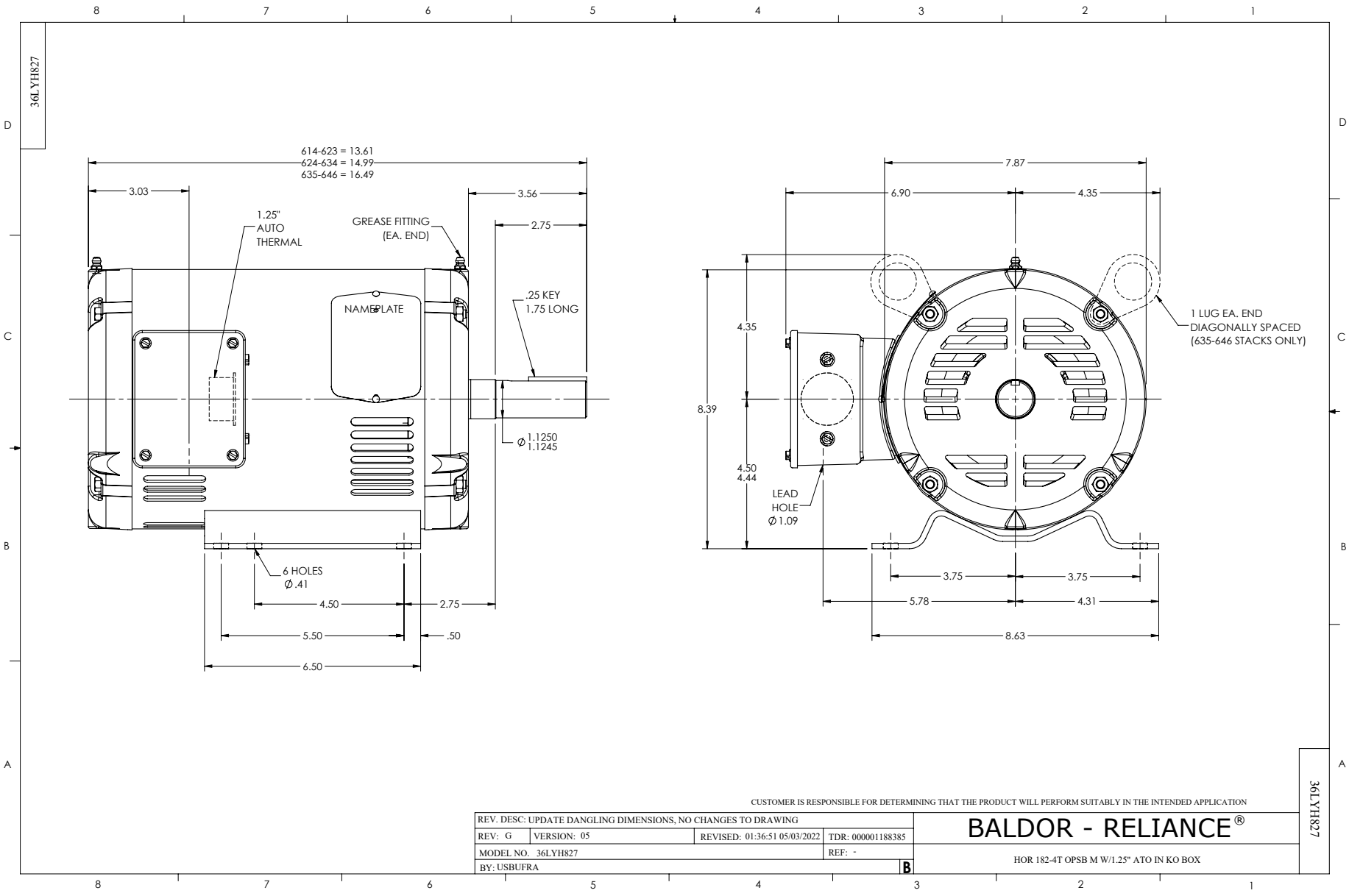
Winding: 36WGS536-R005	**Type:** 3640M	**Enclosure:** OPSB

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			13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	44.8 A
Service Factor (S.F.)			1.15	**No-load Current**	2.97 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.62 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.372 LB-FT2

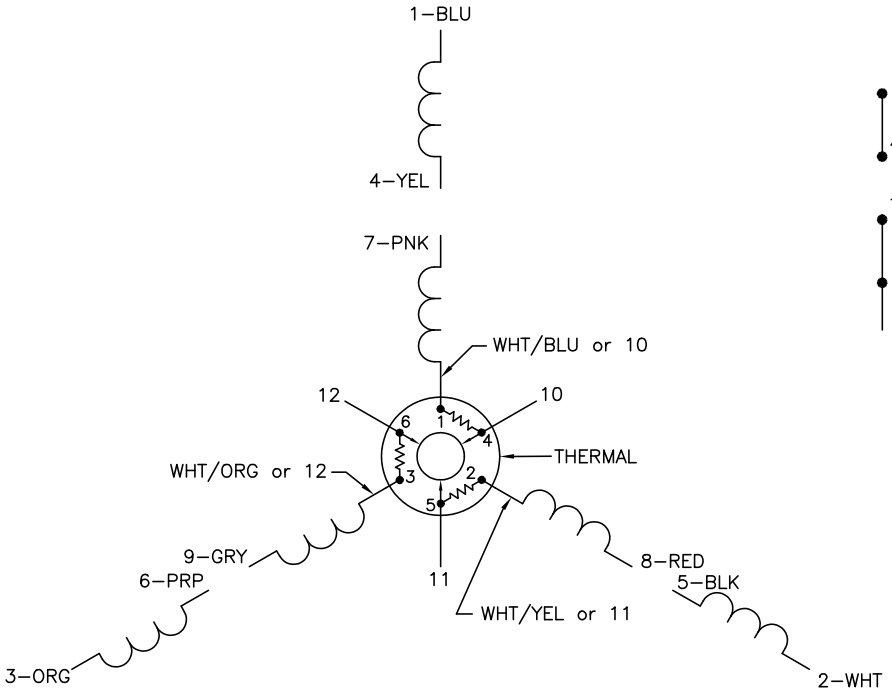
Load Characteristics 460 V, 60 Hz, 5 HP

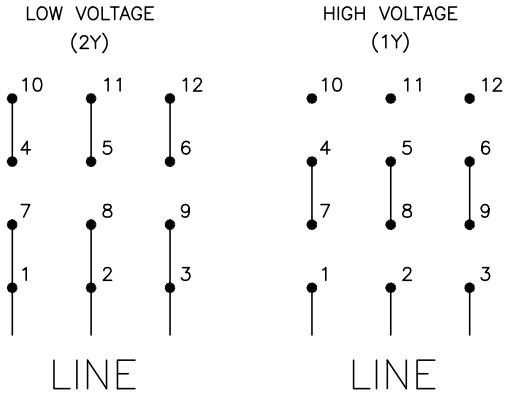
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	63	75	80	83	84	82
Efficiency	85.4	89.8	90.2	89.6	88.5	86.5	88.9
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	3.32	4.13	5.25	6.57	8.03	9.65	7.45


ABB Motors and Mechanical Inc.
WINDING # 36WGS536
Typical performance - not guaranteed values.
5 HP 3 PH 60 HZ 1750 RPM 460 V 3640M
TORQUES(LB-FT): PO=44.8 PU=25.5 LR=30.1 LRA=44.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/5/2026 ACPERF, record # 32558


36LYH827
614-623 = 13.61
624-634 = 14.99
635-646 = 16.49
3.03
3.56
2.75
1.25" AUTO THERMAL
GREASE FITTING (EA. END)
NAMEPLATE
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
6 HOLES Ø .41
4.50
2.75
5.50
.50
6.50
7.87
6.90
4.35
4.35
8.39
4.50 4.44
LEAD HOLE Ø 1.09
1 LUG EA. END DIAGONALLY SPACED (635-646 STACKS ONLY)
3.75
3.75
5.78
4.31
8.63
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: G VERSION: 05 REVISED: 01:36:51 05/03/2022 TDR: 000001188385
MODEL NO. 36LYH827 REF: -
BY: USBUFRA B
BALDOR - RELIANCE®
HOR 182-4T OPSB M W/1.25" ATO IN KO BOX
36LYH827

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