ABB BALDOR RELIANCE

Customer information packet

EHFM3218T

5HP, 1750RPM, 3PH, 60HZ, 184T, 3636M, OPSB, F2
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/3/2026 6:13:05 AM

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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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
Current @ Voltage	14.000 A @ 208.0 V
	14.000 A @ 230.0 V
	7.000 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36L731
Base	
Status	PRD/A
Elec. spec.	36WGZ657
Layout	36LYL731
Eff. date	01-21-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-05-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	16.49 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 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

NP2094E06B03									
CAT.NO.	EHFM3218T								
SPEC.	36L731Z657G1								
HP	5								
VOLTS	230/460								
AMPS	14/7								
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	**USABLE AT 208V**			N/A				
DE	6206	**ODE**	6205						
AUTO	N	**MANUAL**	N	**NONE**	Y				
ENCL	OPSB	**SN**							
BLANK	SFA 15.0/7.5								

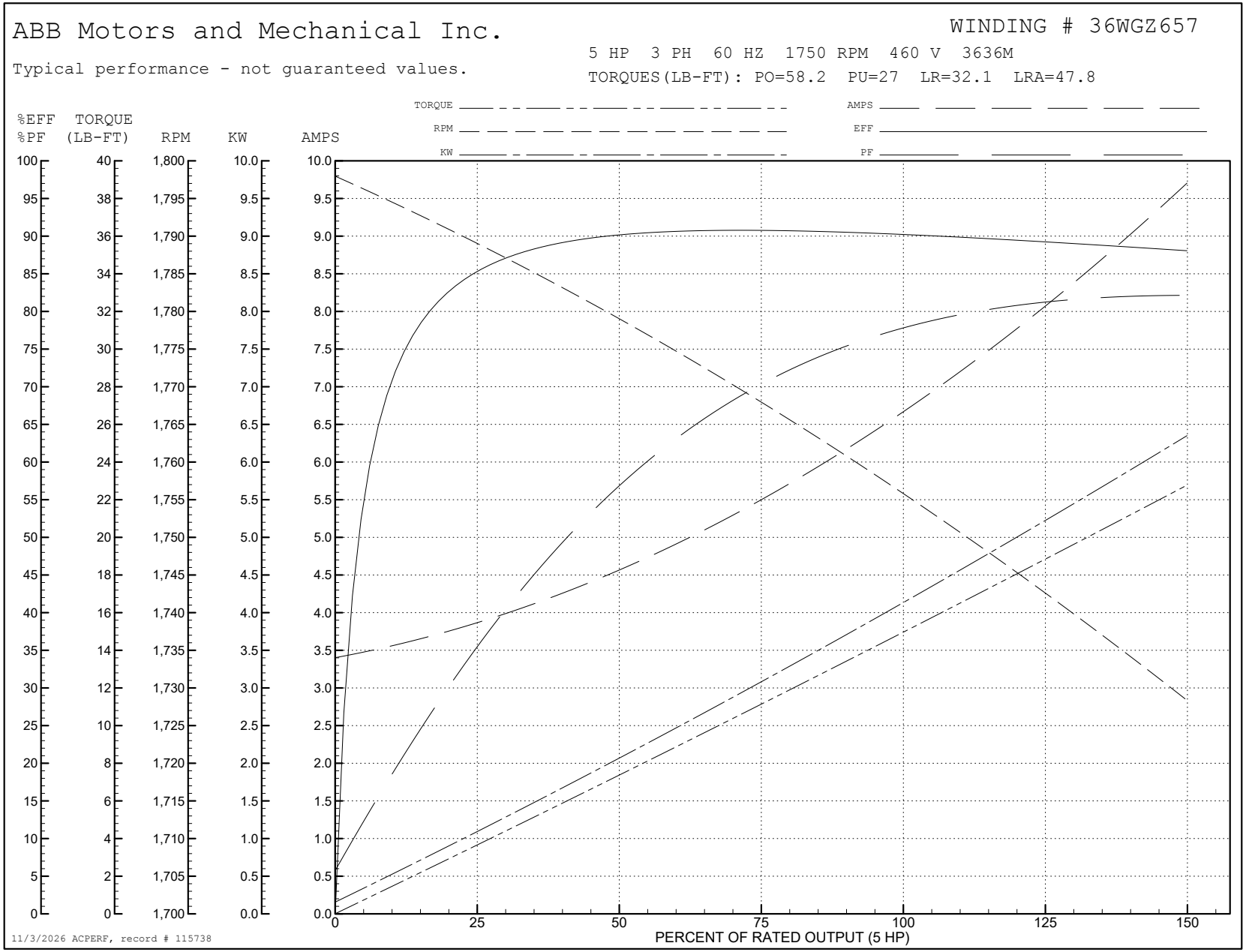
AC Induction Motor Performance Data
Record # 115738
Typical performance - not guaranteed values

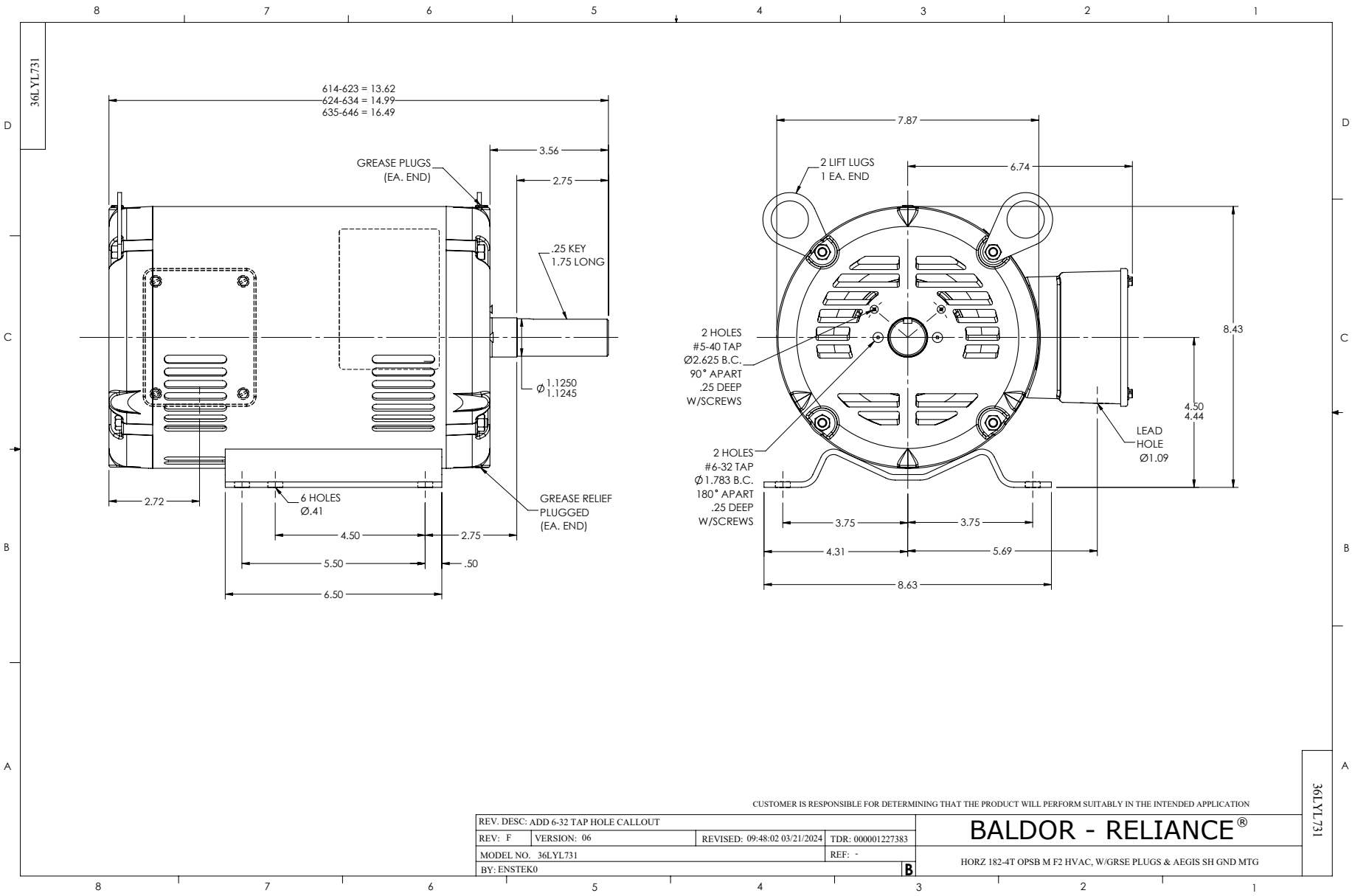
Winding: 36WGZ657-R001	**Type:** 3636M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	14.97 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			14/7	**Breakdown Torque**	58.2 LB-FT
R.P.M.			1750	**Pull-up Torque**	27 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.1 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	47.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.47 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	2.6406 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	42.5
				Rotor inertia	0.335 lb-ft²

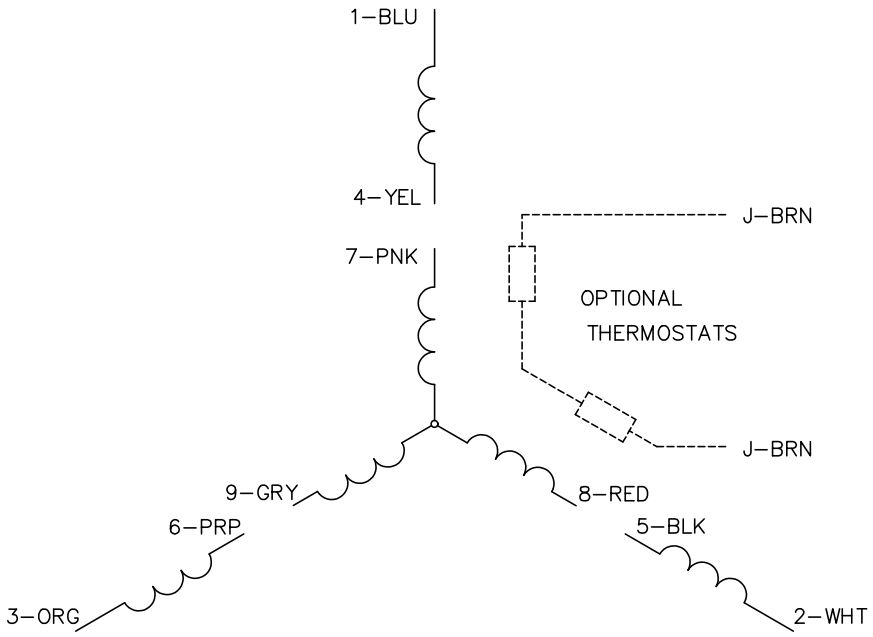
Load Characteristics 460 V, 60 Hz, 5 HP

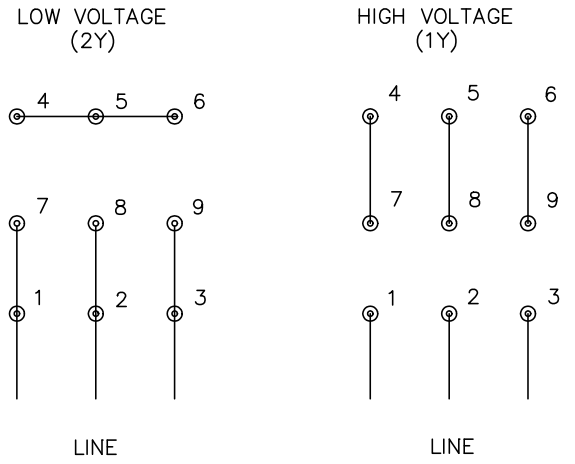
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	70	77	81	83	79
Efficiency	84.7	89.8	90.7	90.3	89.3	87.9	89.7
Speed	1789	1778.9	1767.9	1755.9	1742.6	1728.3	1748
Line amperes	3.79	4.51	5.52	6.73	8.12	9.65	7.56


ABB Motors and Mechanical Inc.
WINDING # 36WGZ657
5 HP 3 PH 60 HZ 1750 RPM 460 V 3636M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=58.2 PU=27 LR=32.1 LRA=47.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/3/2026 ACPERF, record # 115738


36LYL731
614-623 = 13.62
624-634 = 14.99
635-646 = 16.49
GREASE PLUGS (EA. END)
3.56
2.75
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
2.72
6 HOLES Ø.41
4.50
2.75
5.50
.50
6.50
GREASE RELIEF PLUGGED (EA. END)
7.87
2 LIFT LUGS 1 EA. END
6.74
8.43
2 HOLES #5-40 TAP Ø2.625 B.C. 90° APART .25 DEEP W/SCREWS
4.50 4.44
LEAD HOLE Ø1.09
2 HOLES #6-32 TAP Ø1.783 B.C. 180° APART .25 DEEP W/SCREWS
3.75
3.75
4.31
5.69
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: F
VERSION: 06
REVISED: 09:48:02 03/21/2024
TDR: 000001227383
MODEL NO. 36LYL731
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HORZ 182-4T OPSB M F2 HVAC, W/GRSE PLUGS & AEGIS SH GND MTG
36LYL731

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