ABB BALDOR RELIANCE

Customer information packet

EHFM3157T

2HP, 1750RPM, 3PH, 60HZ, 145T, 3526M, OPSB, F2
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	145T
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	2.000 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	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	2.900 A @ 460.0 V
	5.800 A @ 208.0 V
	5.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	N
Type	AC
Mech. spec.	35VV803
Base	
Status	PRD/A
Elec. spec.	35WGM496
Layout	35LYVV803
Eff. date	01-14-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-26-2013

High Voltage Full Load Amps	2.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	11.62 IN
Power Factor	76
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	0.875 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

NP2094E06B03									
CAT.NO.	EHFM3157T								
SPEC.	35VV803M496G1								
HP	2								
VOLTS	230/460								
AMPS	5.8/2.9								
RPM	1750								
FRAME	145T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	76						
RATING	40C AMB-CONT								
CC	010A			**USABLE AT 208V**		N/A			
DE	6205	**ODE**	6203						
AUTO	N	**MANUAL**	N	**NONE**	Y				
ENCL	OPSB	**SN**							
BLANK	SFA 6.3/3.2								

AC Induction Motor Performance Data
Record # 33882
Typical performance - not guaranteed values

Winding: 35WGM496-R001	**Type:** 3528M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	6.02 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.8/2.9	**Breakdown Torque**	22.6 LB-FT
R.P.M.			1750	**Pull-up Torque**	11.27 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.4 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	21.65 A
Service Factor (S.F.)			1.15	**No-load Current**	1.63 A
NEMA Nom. Eff.	86.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	8.22 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	59.1
				Rotor inertia	0.154 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	56	69	76	81	84	79
Efficiency	77	84.7	86.8	86.6	85.8	84.3	86.1
Speed	1789	1779	1768	1756	1742	1727	1748
Line amperes	1.75	2.01	2.37	2.85	3.37	3.96	3.16

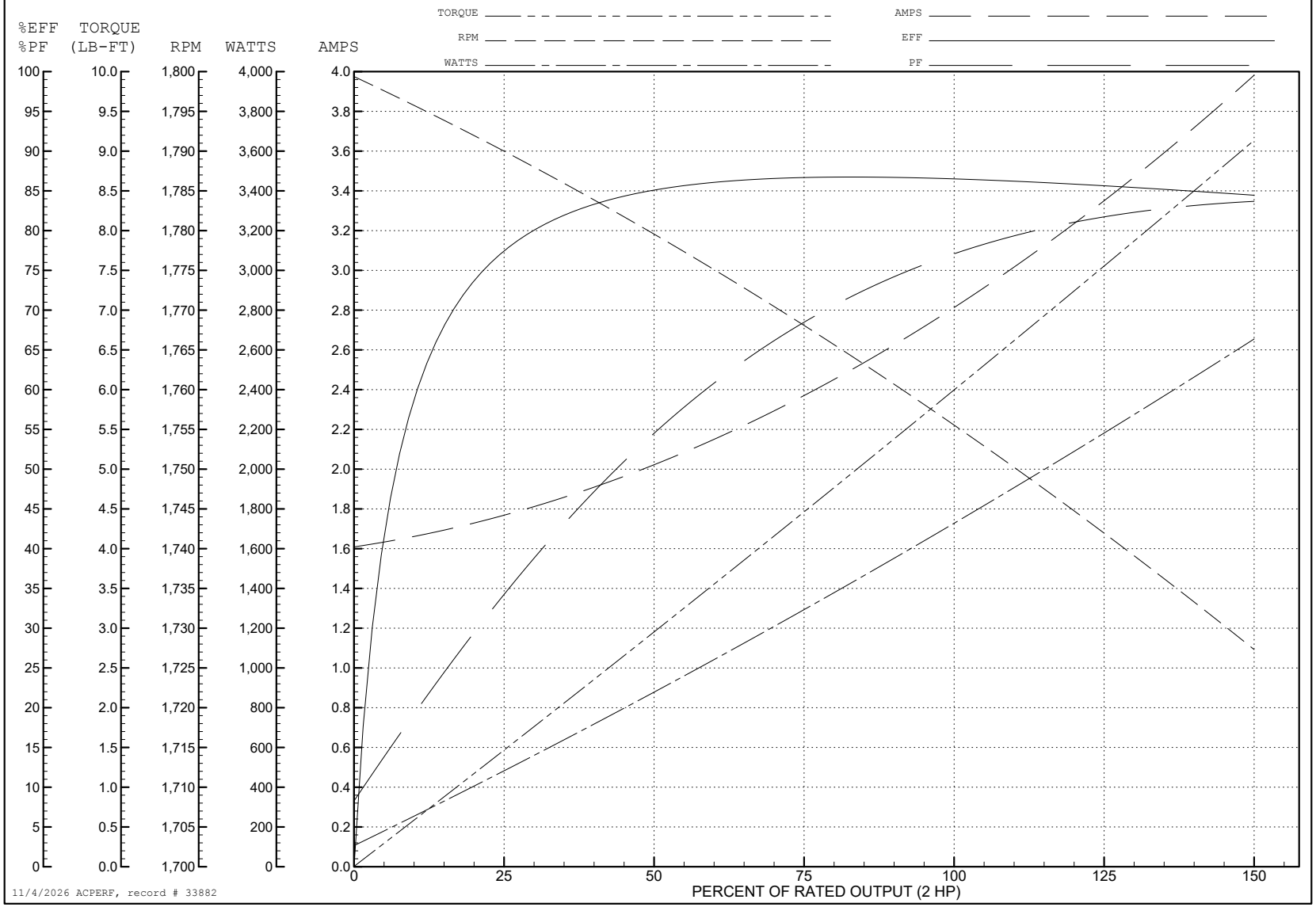
ABB Motors and Mechanical Inc.

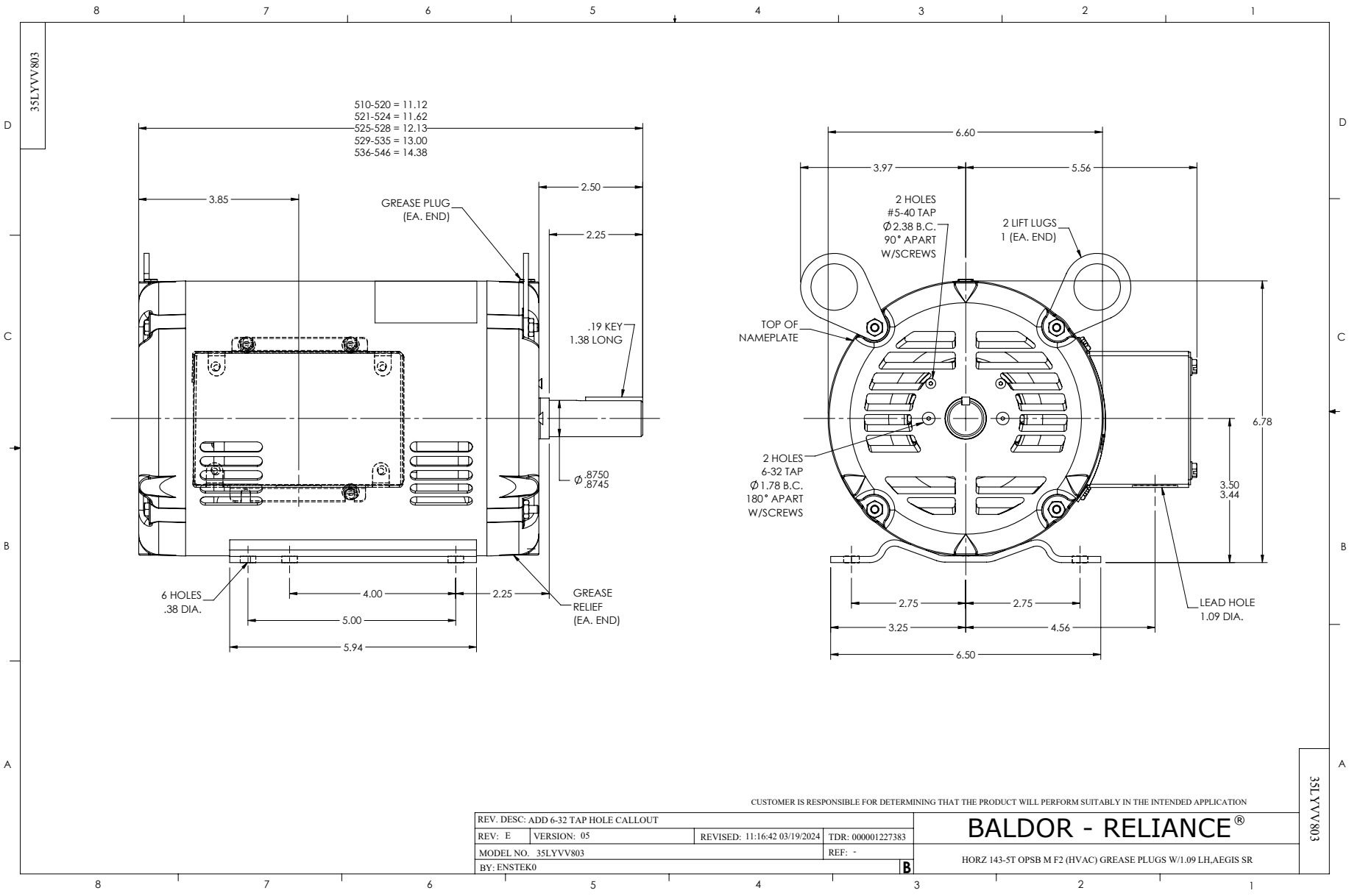
WINDING # 35WGM496

2 HP 3 PH 60 HZ 1750 RPM 460 V 3528M

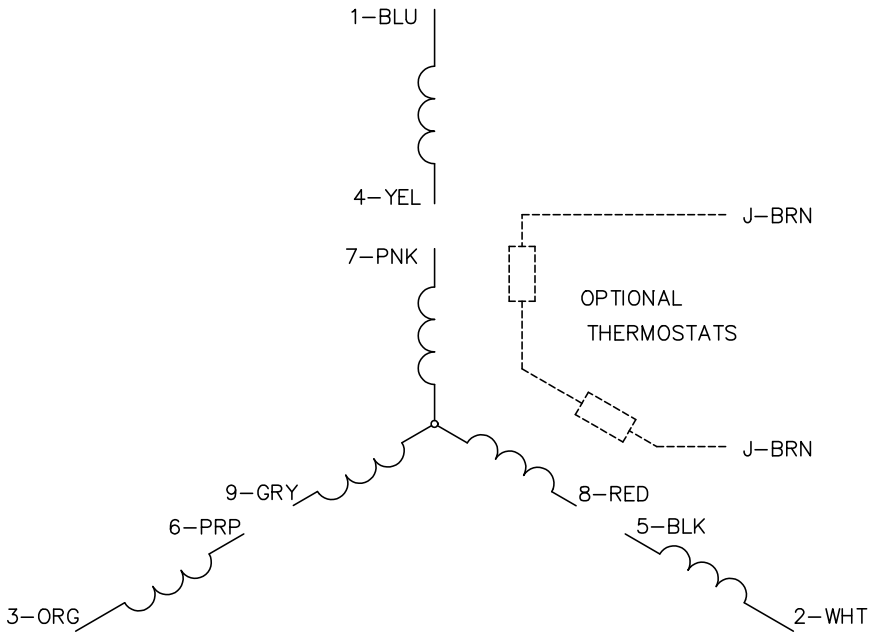
Typical performance - not guaranteed values.

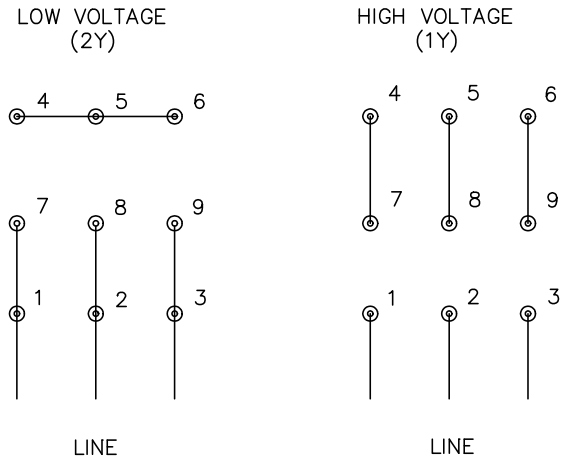
TORQUES(LB-FT): PO=22.6 PU=11.27 LR=15.4 LRA=21.65




35LYVV803
510-520 = 11.12
521-524 = 11.62
525-528 = 12.13
529-535 = 13.00
536-546 = 14.38
3.85
GREASE PLUG
(EA. END)
2.50
2.25
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
.38 DIA.
4.00
2.25
5.00
5.94
GREASE
RELIEF
(EA. END)
6.60
3.97
5.56
2 HOLES
#5-40 TAP
Ø2.38 B.C.
90° APART
W/SCREWS
2 LIFT LUGS
1 (EA. END)
TOP OF
NAMEPLATE
2 HOLES
6-32 TAP
Ø1.78 B.C.
180° APART
W/SCREWS
6.78
3.50
3.44
2.75
2.75
3.25
4.56
6.50
LEAD HOLE
1.09 DIA.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: E
VERSION: 05
REVISED: 11:16:42 03/19/2024
TDR: 000001227383
MODEL NO. 35LYVV803
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HORZ 143-5T OPSB M F2 (HVAC) GREASE PLUGS W/1.09 LH,AEGIS SR
35LYVV803

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