ABB BALDOR RELIANCE

Customer information packet

EM2536T

30HP, 1180RPM, 3PH, 60HZ, 326T, 4084M, OPSB, F1

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Specifications

Enclosure	OPSB
Frame	326T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	78.000 A @ 230.0 V
	82.000 A @ 208.0 V
	39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a

Part Detail

Revision	Z
Type	AC
Mech. spec.	40E212
Base	
Status	PRD/A
Elec. spec.	40WGX122
Layout	40LYE212
Eff. date	11-29-2023
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	06-03-2009

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.69 IN
Power Factor	77
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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

NP2138LUA												
CAT.NO.	EM2536T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	40E212X122	**CC**	010A	**FRAME**	326T	**S/N**						
HP	30		**CLASS**	F	**HZ**	60						
RPM	1180		**PH**	3	**DES**	A						
VOLT	230/460			**KVA-CODE**	H		**ODE BRG**	6309	**DE BRG**	6312		
AMP	78/39											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	93.6	**PF**	77	**SER.F.**	1.15							
	50Hz 30Hp 190/380V 88/44A					SF 1.0						
HTR-VOLTS		**HTR-AMPS**										

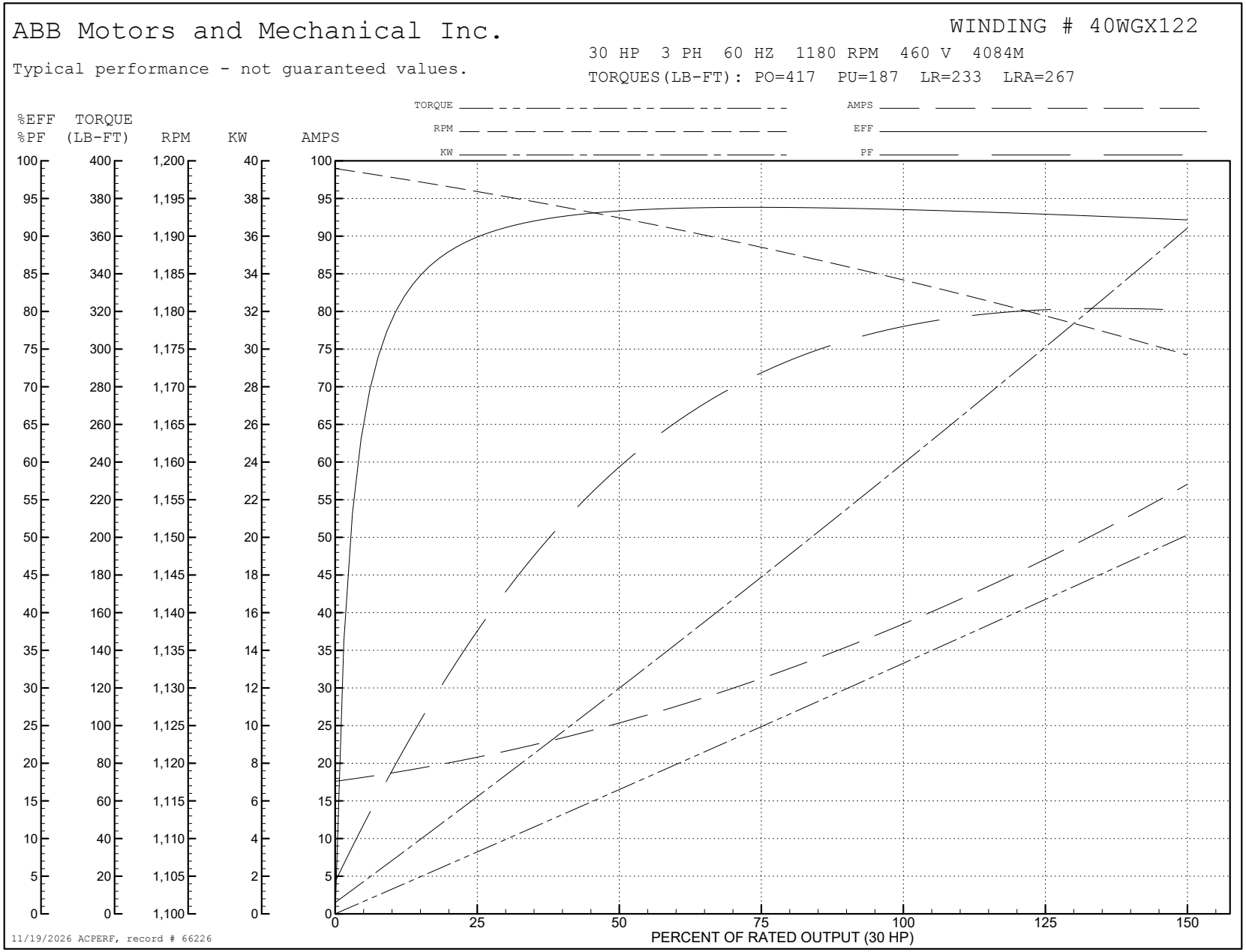
AC Induction Motor Performance Data
Record # 66226
Typical performance - not guaranteed values

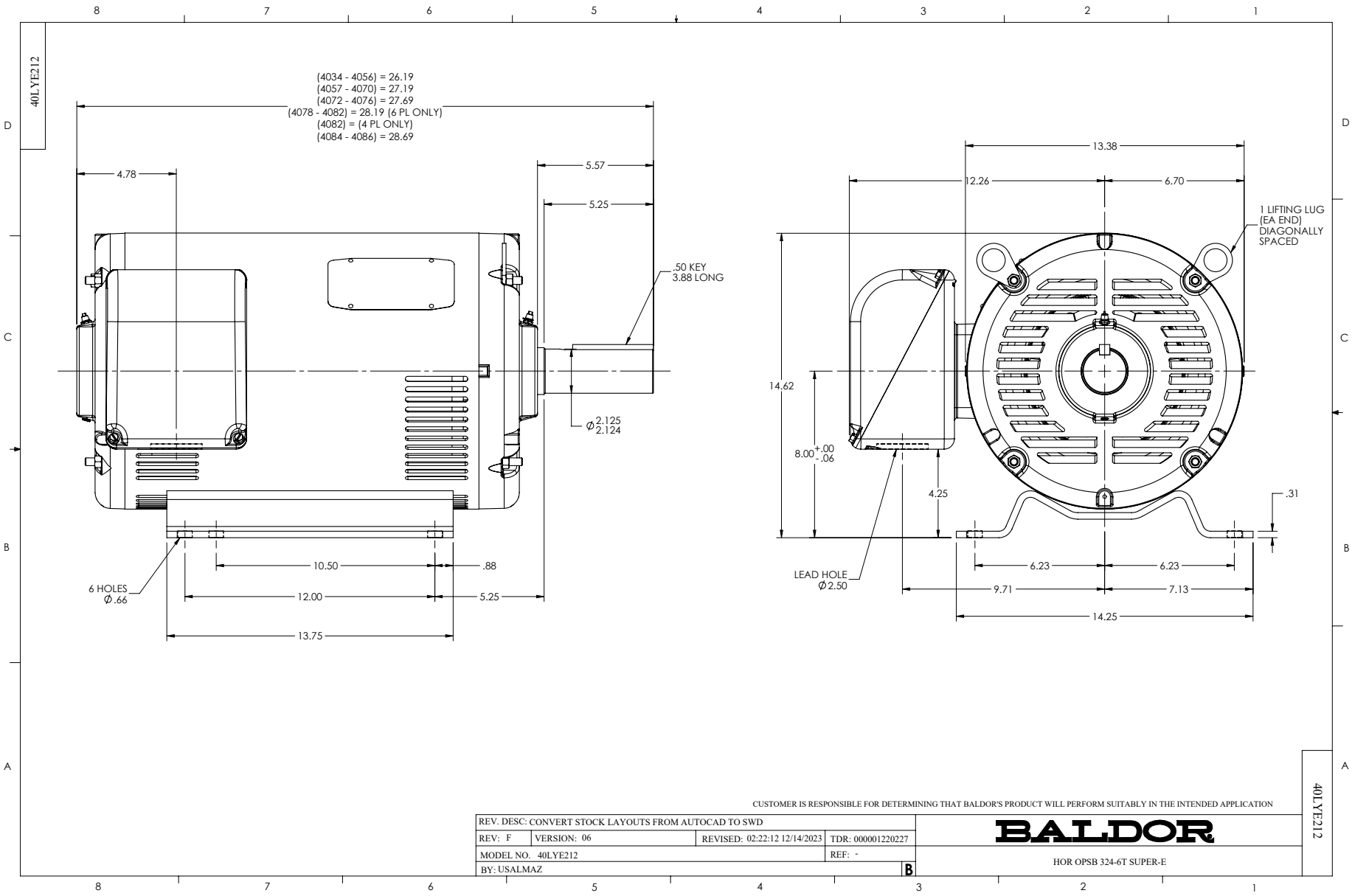
Winding: 40WGX122-R001	**Type:** 4084M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	133.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			78/39	**Breakdown Torque**	417 LB-FT
R.P.M.			1180	**Pull-up Torque**	187 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	233 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	267 A
Service Factor (S.F.)			1.15	**No-load Current**	18.1 A
NEMA Nom. Eff.	93.6	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.2452 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	28.6

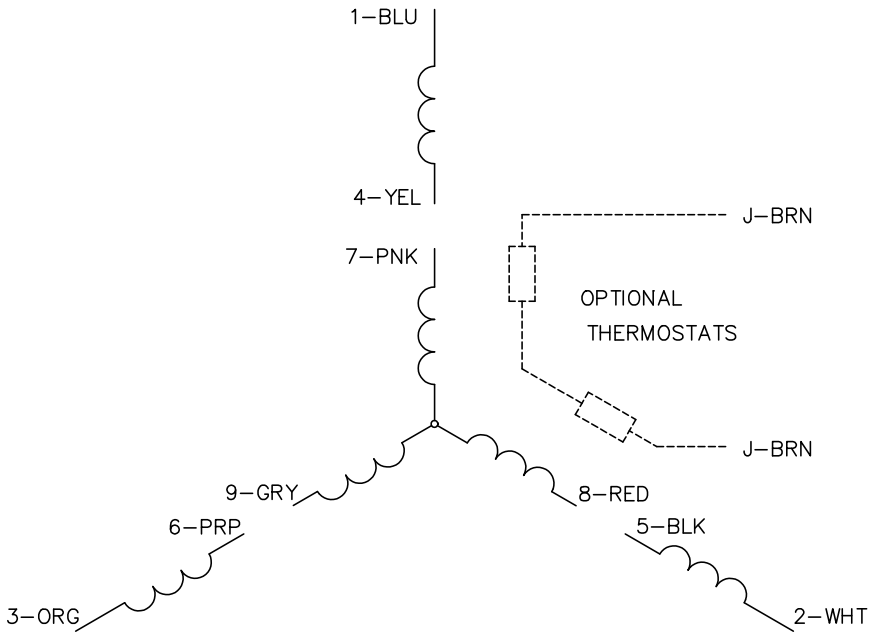
Load Characteristics 460 V, 60 Hz, 30 HP

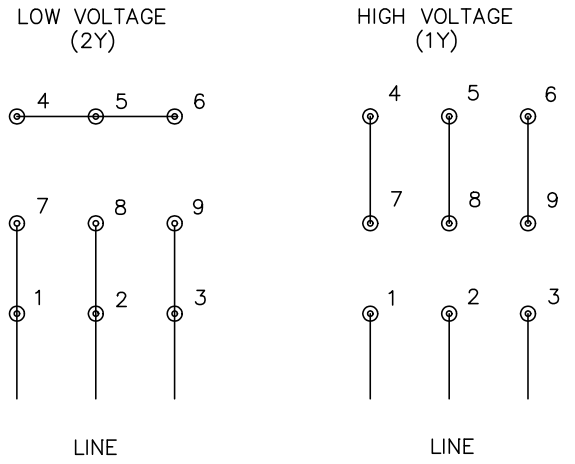
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	72	77	80	81	79
Efficiency	89.6	93.2	93.8	93.6	92.9	92.1	93.2
Speed	1196.1	1192.3	1188.4	1184.2	1179.4	1174.2	1181
Line amperes	20.2	25	31.5	39	47.4	56.7	44


ABB Motors and Mechanical Inc.
WINDING # 40WGX122
30 HP 3 PH 60 HZ 1180 RPM 460 V 4084M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=417 PU=187 LR=233 LRA=267
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/19/2026 ACPERF, record # 66226


40LYE212
(4034 - 4056) = 26.19
(4057 - 4070) = 27.19
(4072 - 4076) = 27.69
(4078 - 4082) = 28.19 (6 PL ONLY)
(4082) = (4 PL ONLY)
(4084 - 4086) = 28.69
4.78
5.57
5.25
.50 KEY
3.88 LONG
Ø2.125
2.124
6 HOLES
Ø.66
10.50
.88
12.00
5.25
13.75
13.38
12.26
6.70
1 LIFTING LUG
(EA END)
DIAGONALLY
SPACED
14.62
8.00 +.00 -.06
4.25
.31
LEAD HOLE
Ø2.50
6.23
6.23
9.71
7.13
14.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: F
VERSION: 06
REVISED: 02:22:12 12/14/2023
TDR: 000001220227
MODEL NO. 40LYE212
REF: -
BY: USALMAZ
B
BALDOR
HOR OPSB 324-6T SUPER-E
40LYE212

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