BALDOR • RELIANCE

Customer information packet

EFM2535T-G

30HP, 1775RPM, 3PH, 60HZ, 286T, 4060M, OPSB, F2

1/18/2025 9:44:31 PM

Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 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 EEV
	NEMA PREMIUM
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	76.000 A @ 208.0 V
	72.000 A @ 230.0 V
	36.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	H

Part detail

Revision	D
Type	AC
Mech. spec.	40E304
Base	
Status	PRD/A
Elec. spec.	40WGX339
Layout	40LYE304
Eff. date	09-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	03-30-2023

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
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	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP3554LUA												
CAT.NO.	EFM2535T-G			**P/N**						**ENCL**	OPSB	
SPEC.	40E304X339G1	**CC**	010A		**FRAME**	286T		**SER.NO.**				
HP	30		**CLASS**	H	**HZ**	60						
RPM	1775		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	H		**ODE BRG**	6309	**DE BRG**	6311		
AMPS	74/37											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.1			**GREASE**	POLYREX EM			
PF	80	**SER.F.**	1.15			**CT30-60(2:1) VT3-60(20:1)**						
USABLE AT	50HZ 30HP 190/380V 86/43A				SF1.0							
HTR-VOLTS	**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**								

AC Induction Motor Performance Data
Record # 57330
Typical performance - not guaranteed values

Winding: 40WGX339-R002	**Type:** 4060M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			30
Volts			230/460
Full Load Amps			72/36
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.1	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	88.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	280 LB-FT
Pull-up Torque	130 LB-FT
Locked-rotor Torque	161 LB-FT
Starting Current	252 A
No-load Current	15.4 A
Line-line Res. @ 25ºC	0.22043 Ω
Temp. Rise @ Rated Load	29°C
Temp. Rise @ S.F. Load	35°C
Locked-rotor Power Factor	31.4

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	67	77	82	85	85	84
Efficiency	90.5	93.8	94.4	94.3	93.9	93.2	94.1
Speed	1793.6	1788.1	1782.5	1776.9	1770.4	1763.1	1773
Line amperes	17.7	22.5	29	36.3	44.3	53	41.1

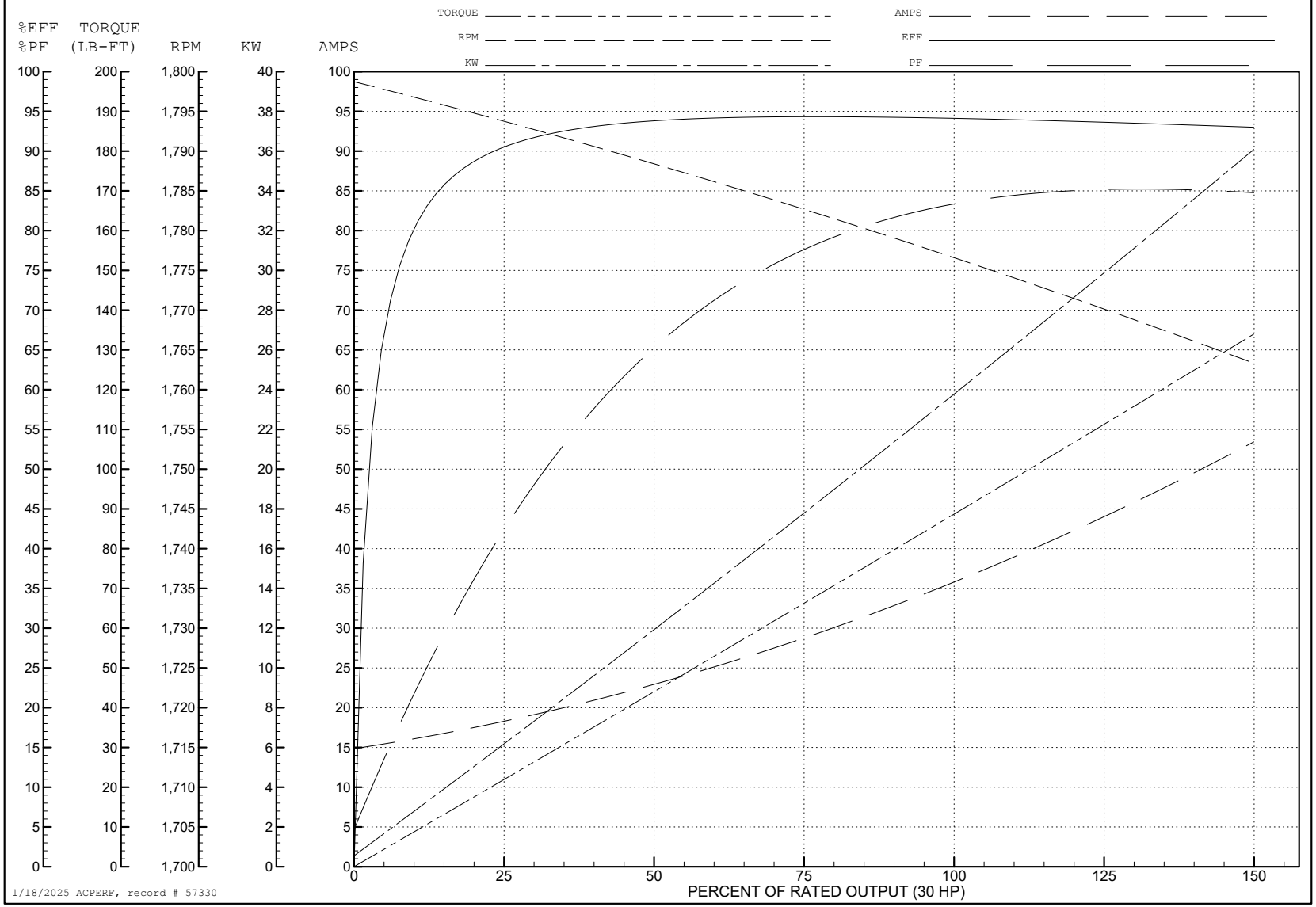
ABB Motors and Mechanical Inc.

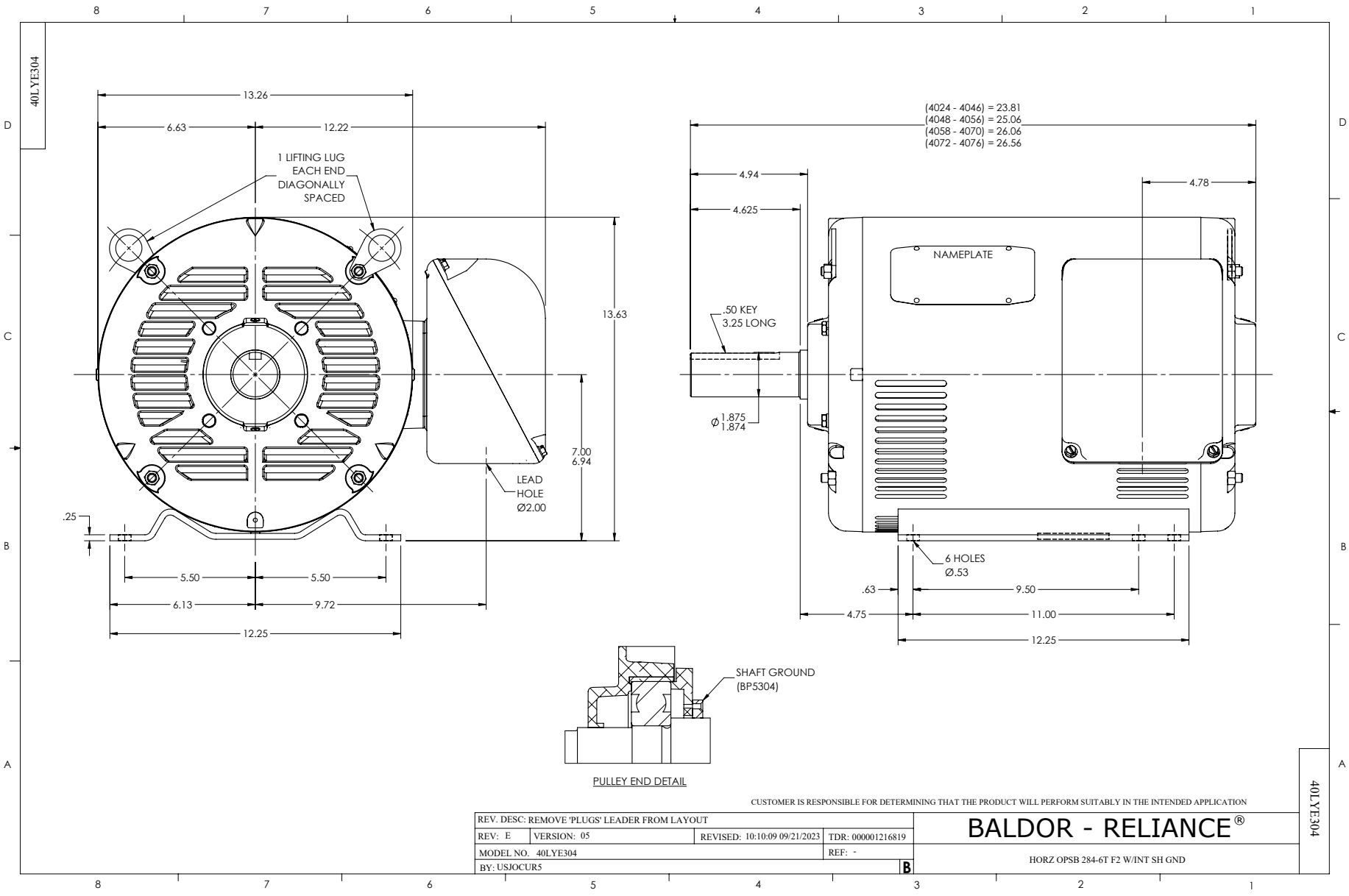
WINDING # 40WGX339

30 HP 3 PH 60 HZ 1775 RPM 460 V 4060M

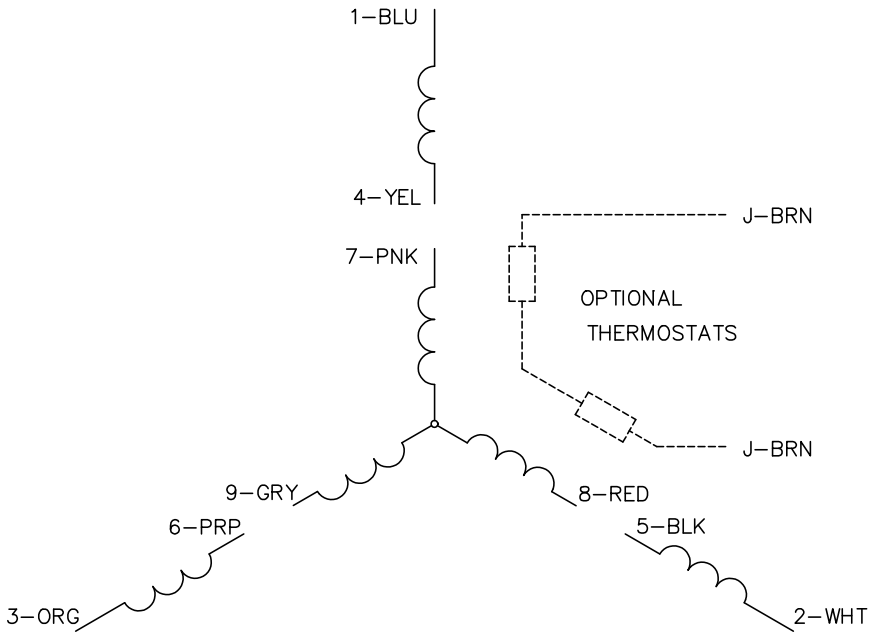
Typical performance - not guaranteed values.

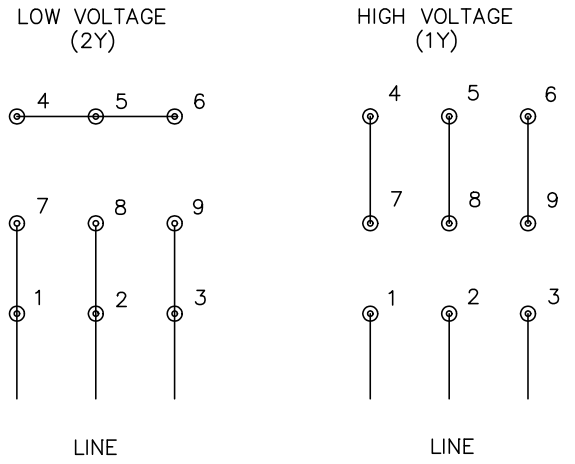
TORQUES(LB-FT): PO=280 PU=130 LR=161 LRA=252




40LYE304
13.26
6.63
12.22
1 LIFTING LUG
EACH END
DIAGONALLY
SPACED
13.63
7.00
6.94
LEAD
HOLE
Ø2.00
.25
5.50
5.50
6.13
9.72
12.25
(4024 - 4046) = 23.81
(4048 - 4056) = 25.06
(4058 - 4070) = 26.06
(4072 - 4076) = 26.56
4.94
4.625
4.78
NAMEPLATE
.50 KEY
3.25 LONG
Ø 1.875
1.874
6 HOLES
Ø.53
.63
9.50
4.75
11.00
12.25
SHAFT GROUND
(BP5304)
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE 'PLUGS' LEADER FROM LAYOUT
REV: E
VERSION: 05
REVISED: 10:10:09 09/21/2023
TDR: 000001216819
MODEL NO. 40LYE304
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 284-6T F2 W/INT SH GND
40LYE304

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