ABB BALDOR RELIANCE

Customer information packet

EHFM2535T

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

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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	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	36.000 A @ 460.0 V
	72.000 A @ 230.0 V
	76.000 A @ 208.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	40J100
Base	
Status	PRD/A
Elec. spec.	40WGX339
Layout	40LYJ100
Eff. date	09-15-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	05-26-2016

Inverter Code	Inverter Ready
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	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 Extension Location	Pulley End
Shaft Ground Indicator	No 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

NP2094E06B03											
CAT.NO.	EHFM2535T										
SPEC.	40J100X339G1										
HP	30										
VOLTS	230/460										
AMPS	74/37										
RPM	1775										
FRAME	286T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F				
NEMA-NOM-EFF	94.1	**PF**	80								
RATING	40C AMB-CONT										
CC	010A			**USABLE AT 208V**			N/A				
DE	6311		**ODE**	6309							
AUTO		**MANUAL**			**NONE**						
ENCL	OPSB	**SN**									
BLANK											

AC Induction Motor Performance Data
Record # 56978
Typical performance - not guaranteed values

Winding: 40WGX339-R001	**Type:** 4060M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			72/36	**Breakdown Torque**	280 LB-FT
R.P.M.			1775	**Pull-up Torque**	130 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	161 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	252 A
Service Factor (S.F.)			1.15	**No-load Current**	15.4 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.22043 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	29°C
S.F. Amps				**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

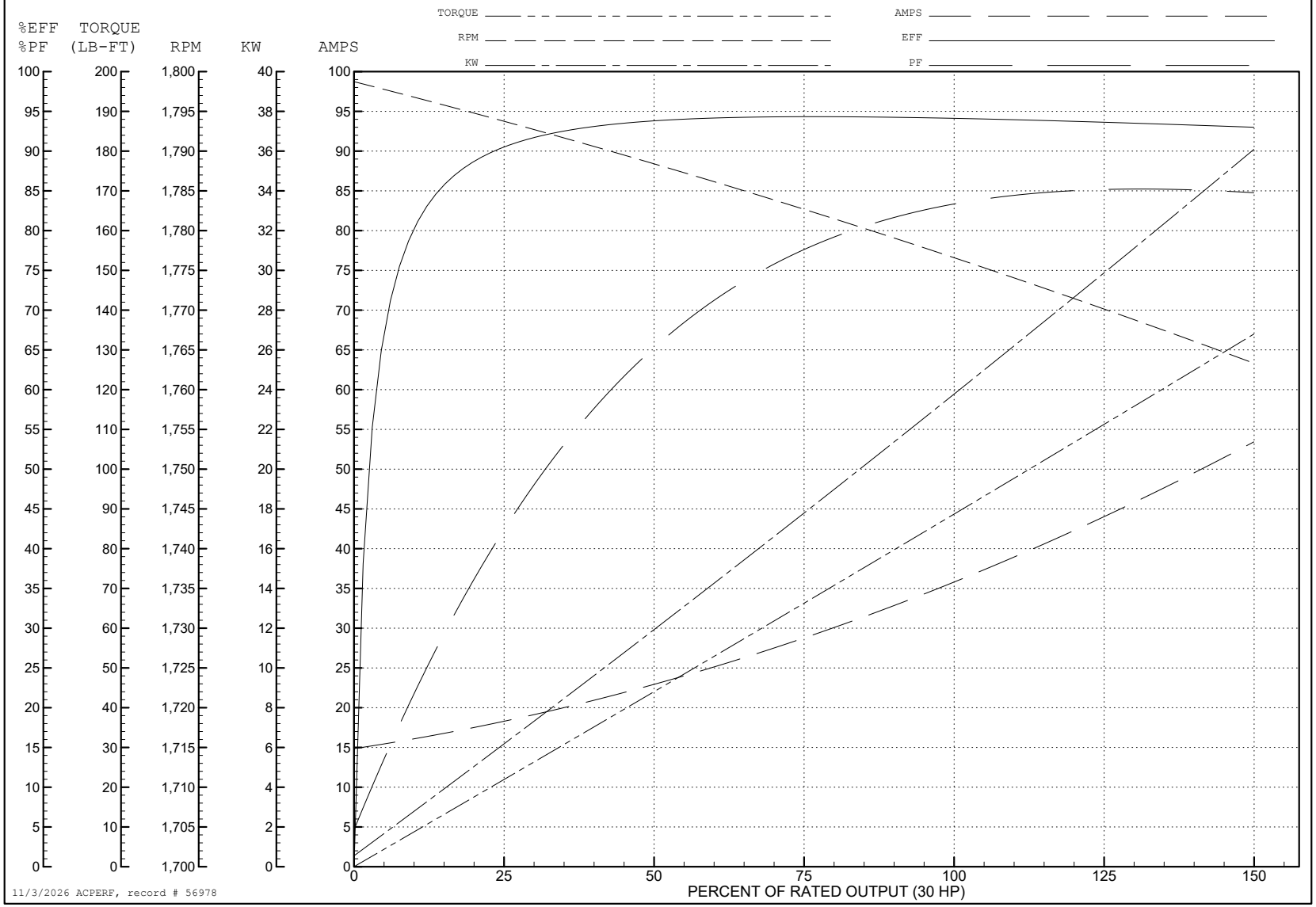
ABB Motors and Mechanical Inc.

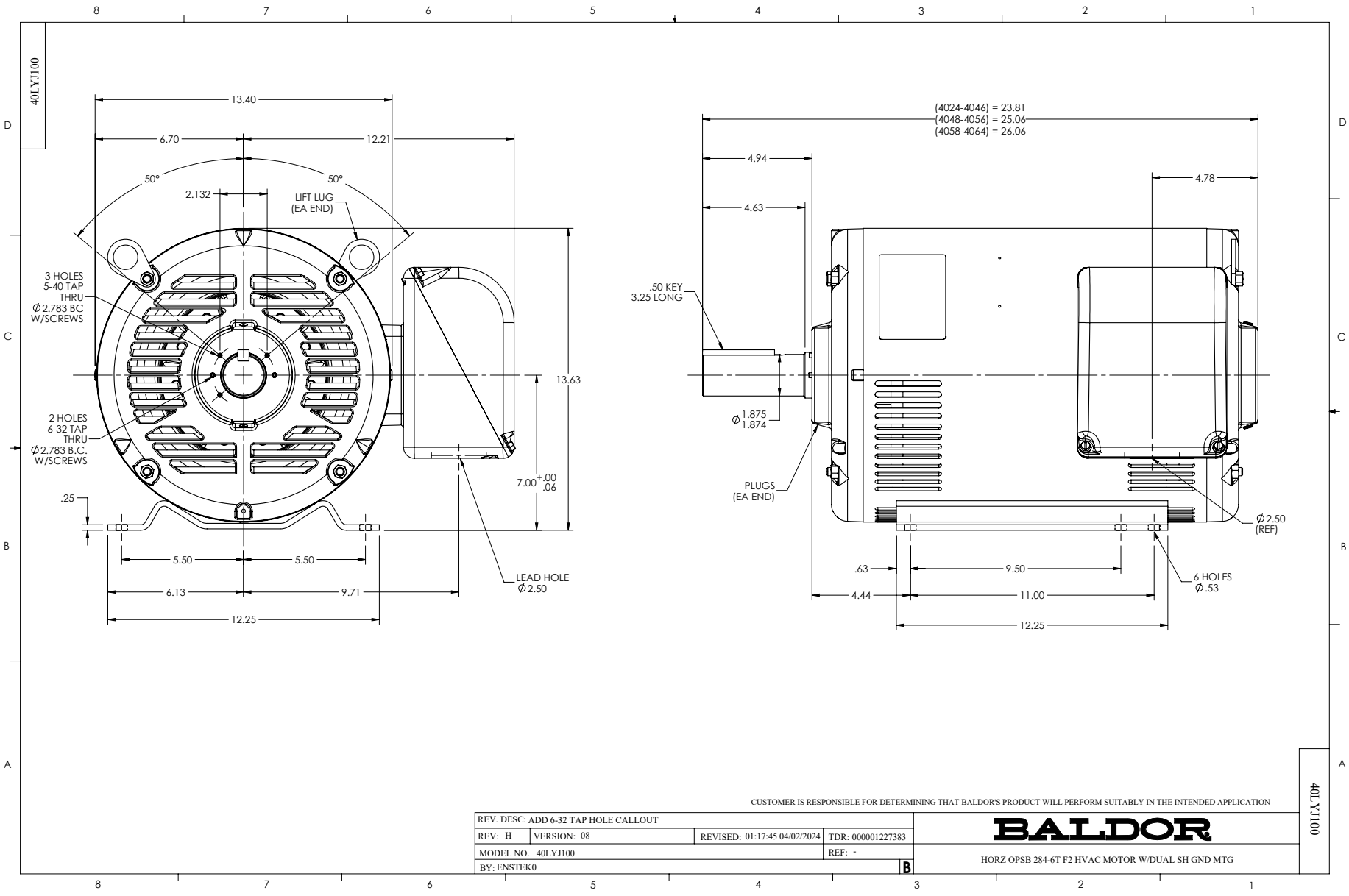
WINDING # 40WGX339

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

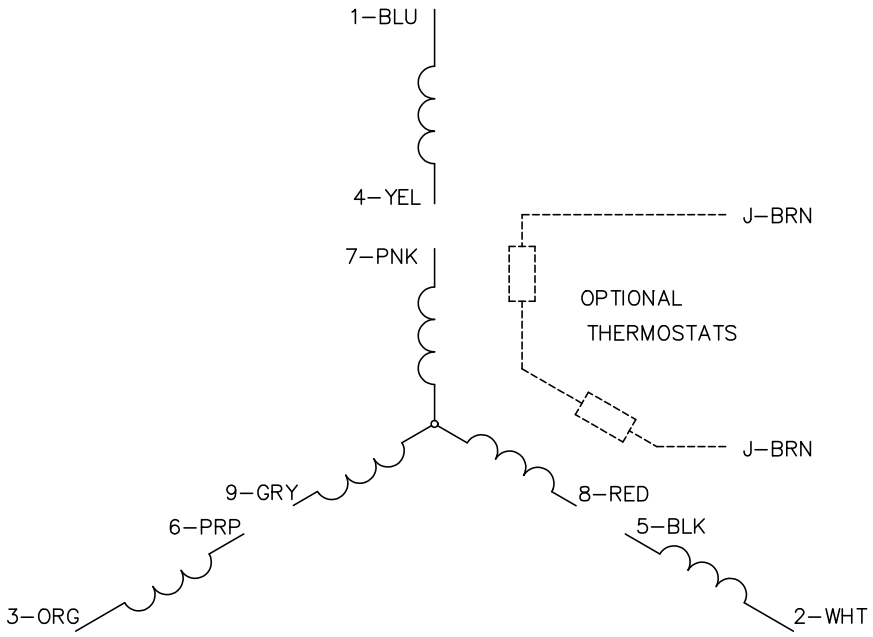
Typical performance - not guaranteed values.

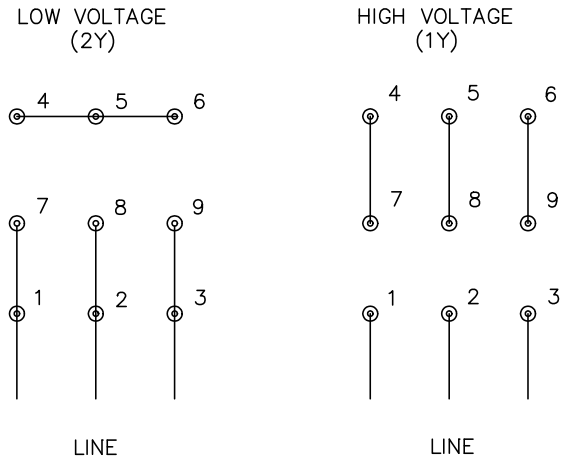
TORQUES(LB-FT): PO=280 PU=130 LR=161 LRA=252




40LYJ100
13.40
6.70
12.21
50°
50°
2.132
LIFT LUG
(EA END)
3 HOLES
5-40 TAP
THRU
Ø2.783 BC
W/SCREWS
2 HOLES
6-32 TAP
THRU
Ø2.783 B.C.
W/SCREWS
13.63
7.00 +.00 -.06
.25
5.50
5.50
6.13
9.71
12.25
LEAD HOLE
Ø2.50
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-4064) = 26.06
4.94
4.63
4.78
.50 KEY
3.25 LONG
Ø1.875
1.874
PLUGS
(EA END)
Ø2.50
(REF)
.63
9.50
4.44
11.00
12.25
6 HOLES
Ø.53
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: H
VERSION: 08
REVISED: 01:17:45 04/02/2024
TDR: 000001227383
MODEL NO. 40LYJ100
REF: -
BY: ENSTEK0
B
BALDOR
HORZ OPSB 284-6T F2 HVAC MOTOR W/DUAL SH GND MTG
40LYJ100

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