ABB BALDOR RELIANCE

Customer information packet

EM2535T-12

30HP, 1775RPM, 3PH, 60HZ, 286T, 4060M, OPSB, F1

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11/19/2026 9:27:33 AM

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

Part Detail

Revision	L
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX349
Layout	40LYD101
Eff. date	06-27-2024
CD Diagram	CD0104
Poles	04
Leads	12#10
Proprietary	False
Created date	05-26-2016

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	12 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F1
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	Wye Start - Delta Run
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.	EM2535T-12			**P/N**						**ENCL**	OPSB	
SPEC.	40D101X349G1	**CC**	010A		**FRAME**	286T		**SER.NO.**				
HP	30		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	H		**ODE BRG**	6309	**DE BRG**	6311		
AMPS	72/36											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.1		**GREASE**	POLYREX EM				
PF	82	**SER.F.**	1.15		**CT30-60(2:1) VT3-60(20:1)**							
USABLE AT	50HZ 30HP 190/380V 86/43A			SF 1.0								
HTR-VOLTS	**HTR-AMPS**		**MAX. SPACE HEATER TEMP.**									

AC Induction Motor Performance Data
Record # 57331
Typical performance - not guaranteed values

Winding: 40WGX349-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**	278 LB-FT
R.P.M.			1775	**Pull-up Torque**	130 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	160 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	250 A
Service Factor (S.F.)			1.15	**No-load Current**	15.1 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.204 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	31.3
				Rotor inertia	4.77 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	85	86	84
Efficiency	90.4	93.9	94.4	94.4	93.5	93.1	93.9
Speed	1794	1788	1782	1777	1770	1763	1773
Line amperes	17.4	22.3	28.8	36.1	44.2	52.9	41

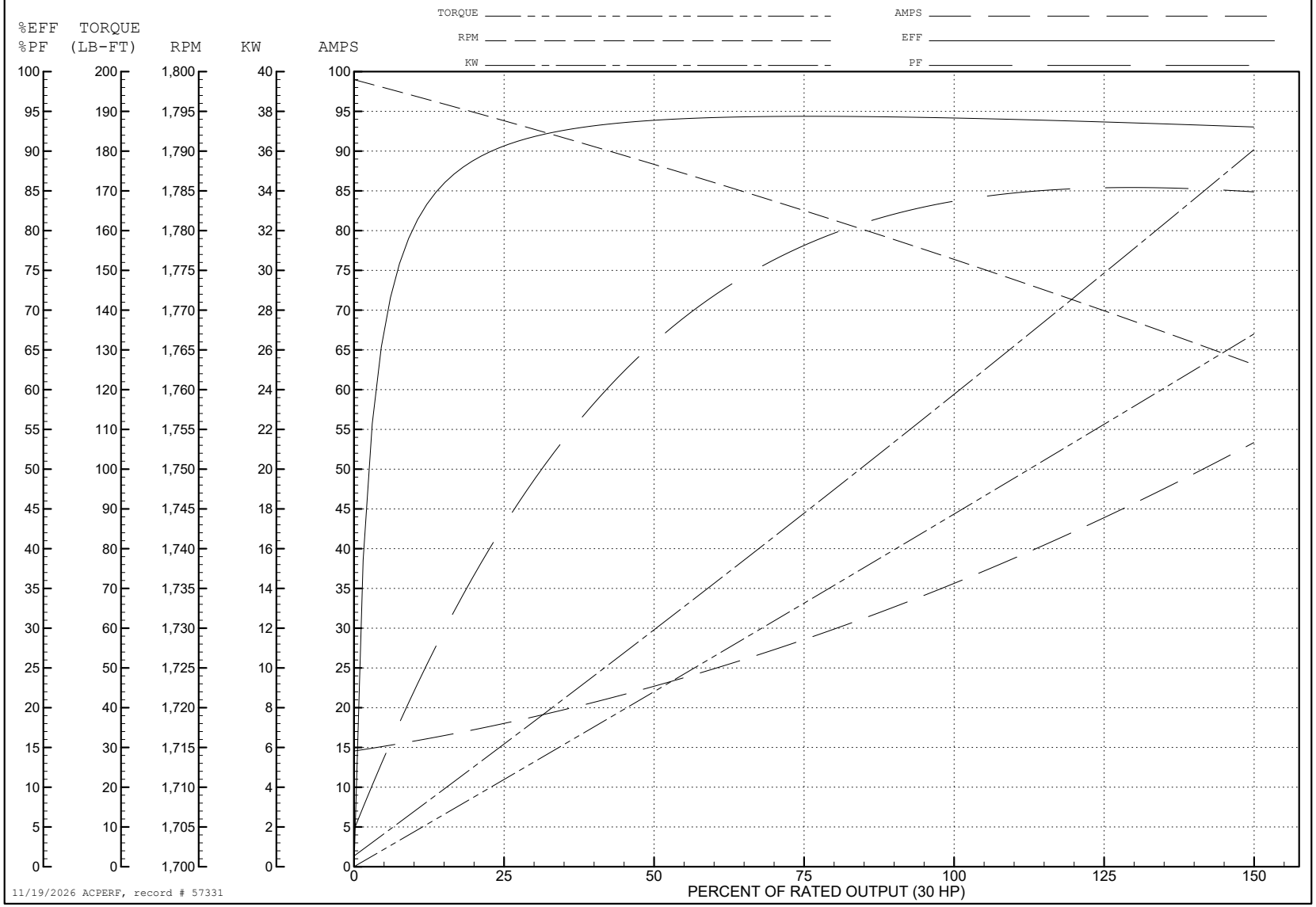
ABB Motors and Mechanical Inc.

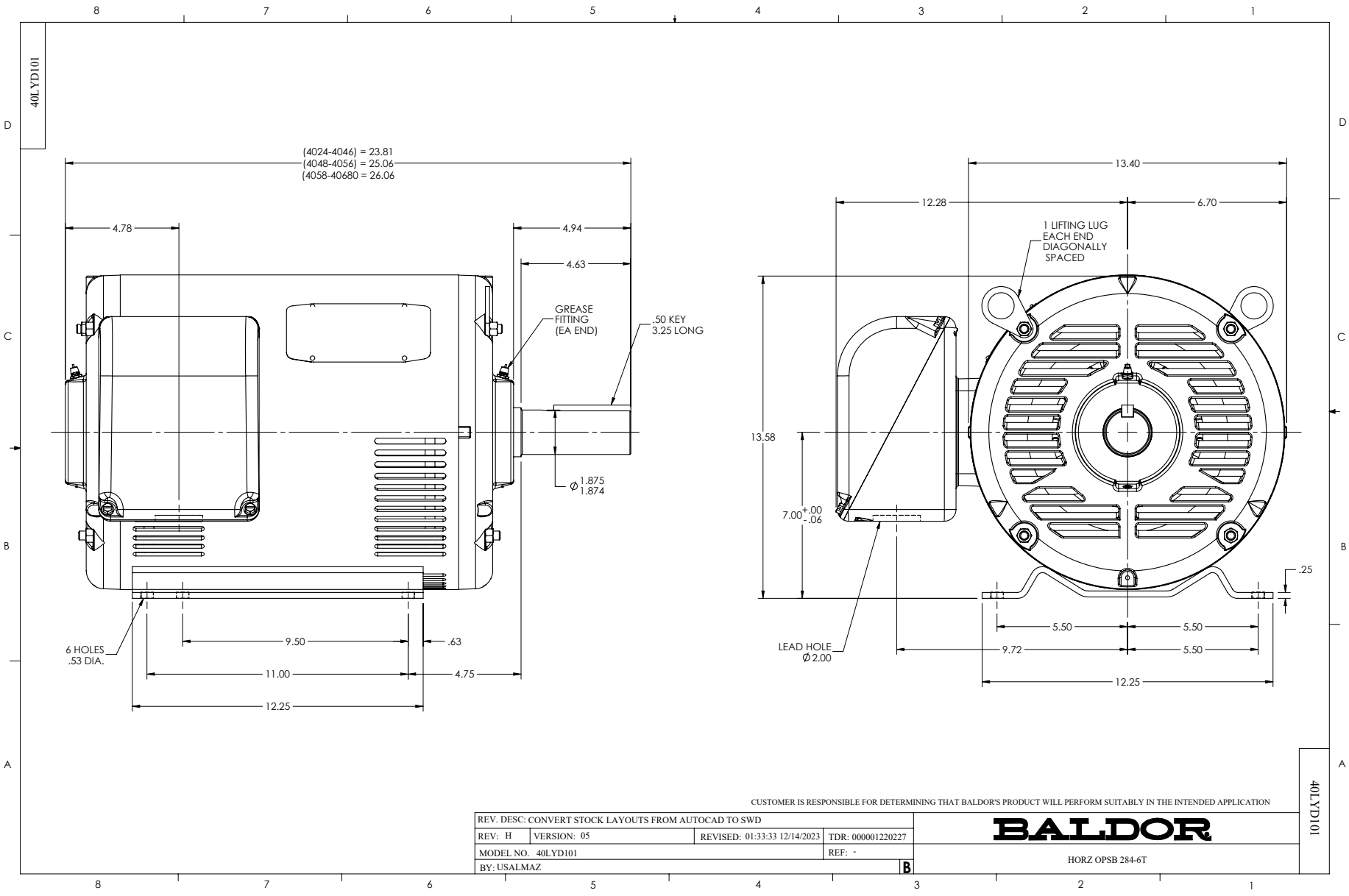
WINDING # 40WGX349

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

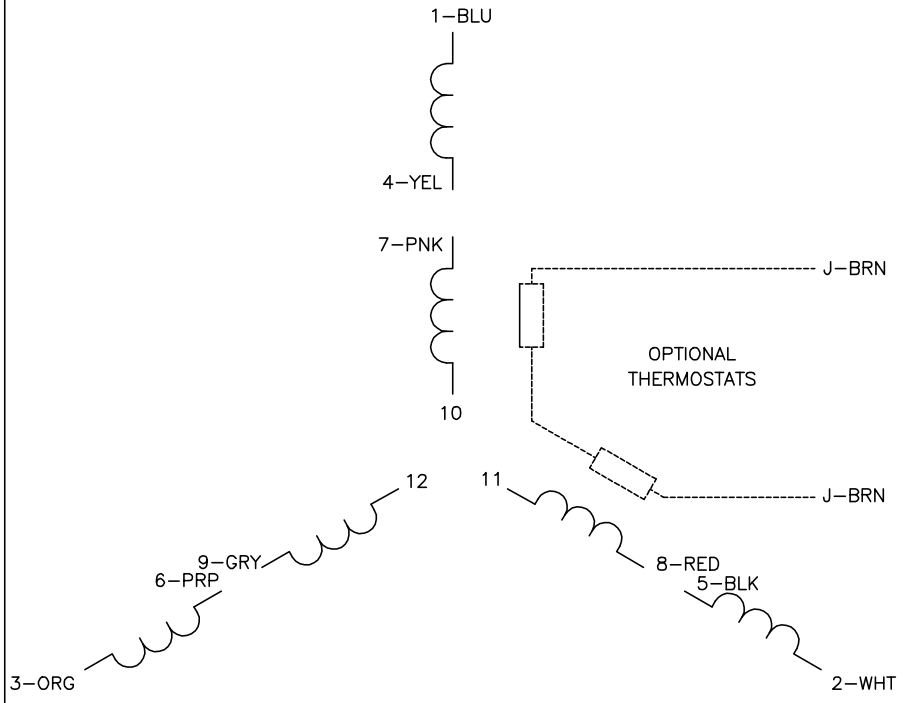
Typical performance - not guaranteed values.

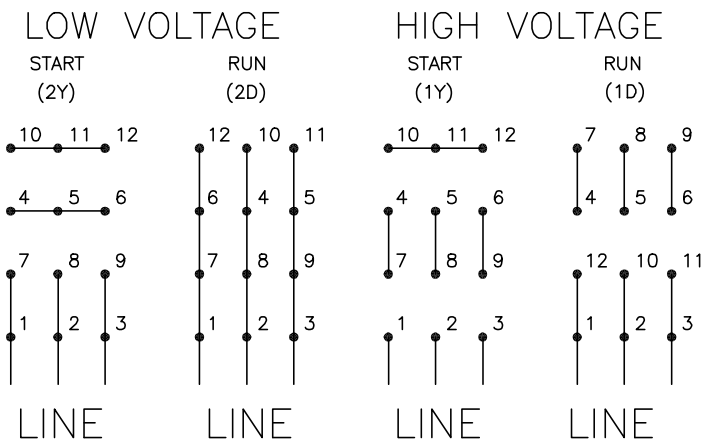
TORQUES(LB-FT): PO=278 PU=130 LR=160 LRA=250




40LYD101
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-40680 = 26.06
4.78
4.94
4.63
GREASE FITTING (EA END)
.50 KEY 3.25 LONG
Ø 1.875 1.874
6 HOLES .53 DIA.
9.50
.63
11.00
4.75
12.25
13.40
12.28
6.70
1 LIFTING LUG EACH END DIAGONALLY SPACED
13.58
7.00 +.00 -.06
.25
LEAD HOLE Ø 2.00
5.50
5.50
9.72
5.50
12.25
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: H
VERSION: 05
REVISED: 01:33:33 12/14/2023
TDR: 000001220227
MODEL NO. 40LYD101
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 284-6T
40LYD101

CD0104





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.

CD0104

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 12 LEADS, Y START/D RUN

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