ABB BALDOR RELIANCE

Customer information packet

EJMM2534T-5

30HP, 3530RPM, 3PH, 60HZ, 284JM, 4040M, OPSB, F

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/22/2026 7:59:15 AM

Specifications

Enclosure	OPSB
Frame	284JM
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	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	27.000 A @ 575.0 V
Design Code	B
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	27.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	W
Type	AC
Mech. spec.	40E211
Base	
Status	PRD/A
Elec. spec.	40WGW622
Layout	40LYE211
Eff. date	02-12-2024
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	06-16-2009

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4040M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.69 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3530 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

NP2138L													
CAT.NO.	EJMM2534T-5			**P/N**				**ENCLOSURE**	OPSB				
SPEC.	40E211W622	**CC**	010A		**FRAME**	284JM		**S/N**					
HP	30			**CLASS**	F		**HZ**	60					
RPM	3530			**PH**	3	**DES**	B						
VOLT	575						**KVA-CODE**	G	**ODE BRG**	6309	**DE BRG**	6312	
AMP	27												
RATING	40C AMB-CONT				**GREASE**	POLYREX EM							
NEMA-NOM-EFF	93.6	**PF**	89	**SER.F.**	1.15								
HTR-VOLTS		**HTR-AMPS**											

AC Induction Motor Performance Data
Record # 13381
Typical performance - not guaranteed values

Winding: 40WGW622-R001	**Type:** 4040M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	44.8 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			27	**Breakdown Torque**	175 LB-FT
R.P.M.			3530	**Pull-up Torque**	60.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	84.1 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	181 A
Service Factor (S.F.)			1.15	**No-load Current**	7.3 A
NEMA Nom. Eff.	93.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.354 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	32°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C
				Locked-rotor Power Factor	24
				Rotor inertia	1.72 LB-FT2

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	80	87	90	91	90	91
Efficiency	88.7	92.6	93.5	93.6	93.1	92.4	93.3
Speed	3584	3571	3555	3539	3518	3498	3526
Line amperes	11	15.8	21.5	27	34	41.5	31.2

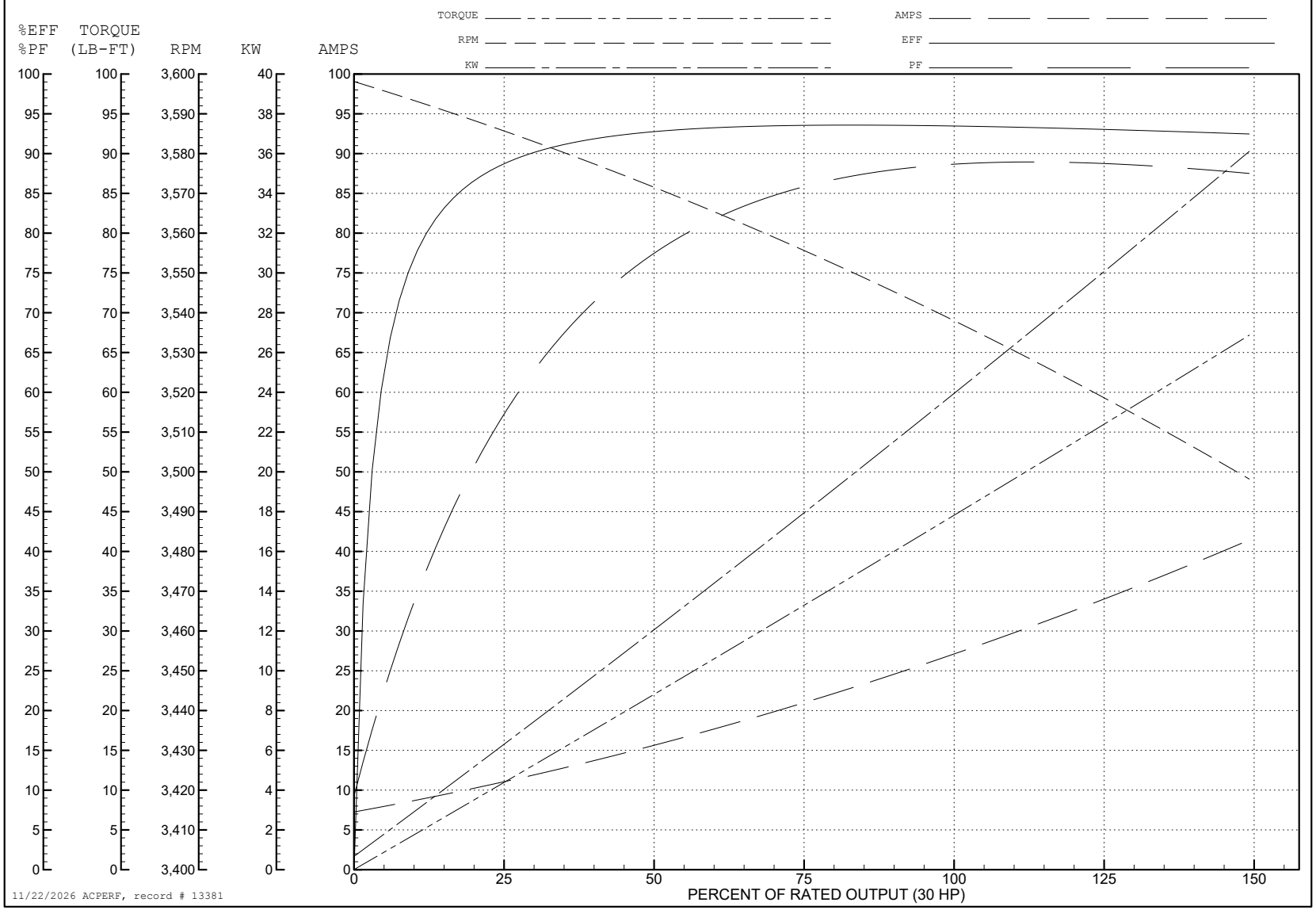
ABB Motors and Mechanical Inc.

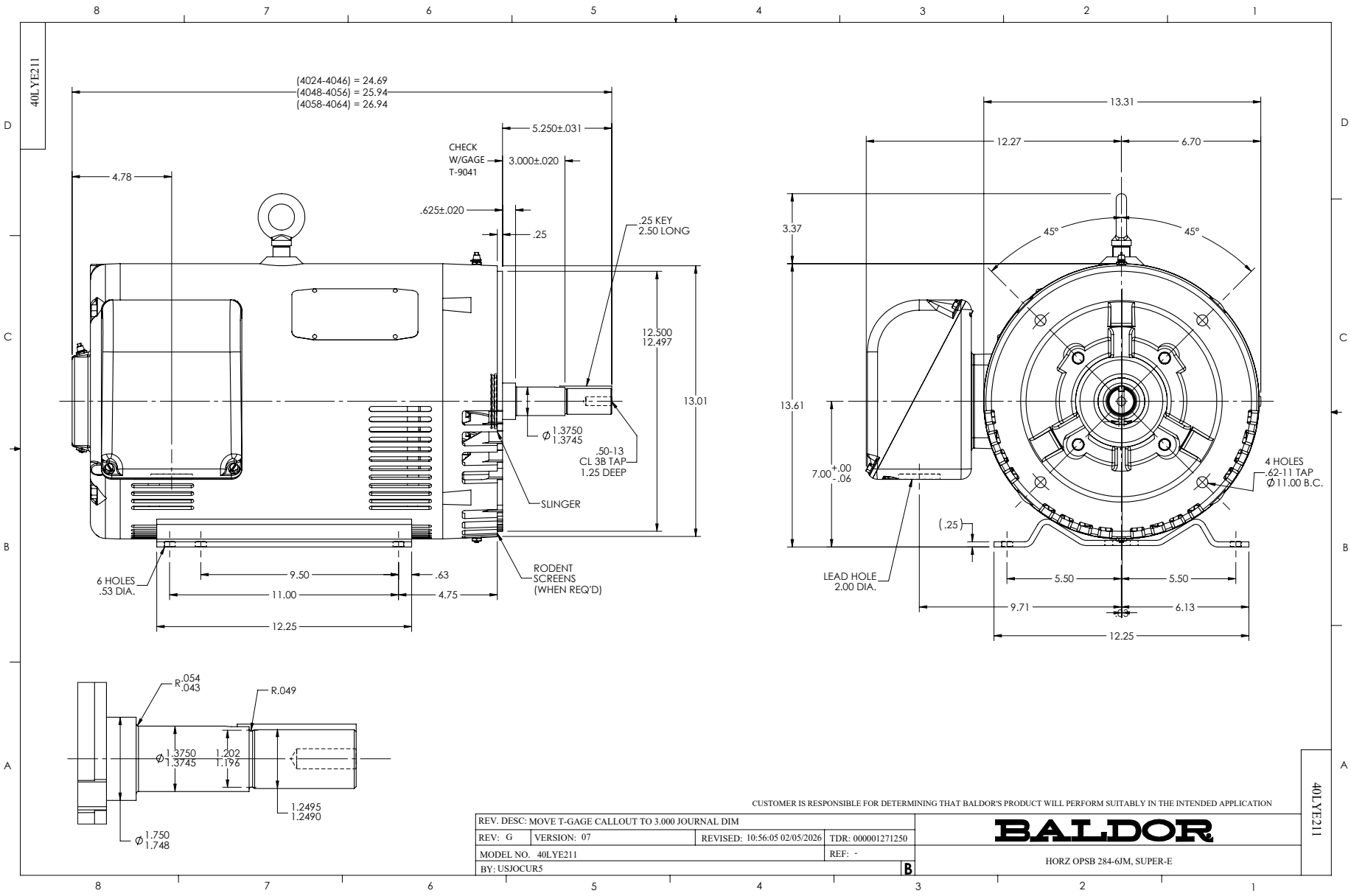
WINDING # 40WGW622

30 HP 3 PH 60 HZ 3530 RPM 575 V 4040M

Typical performance - not guaranteed values.

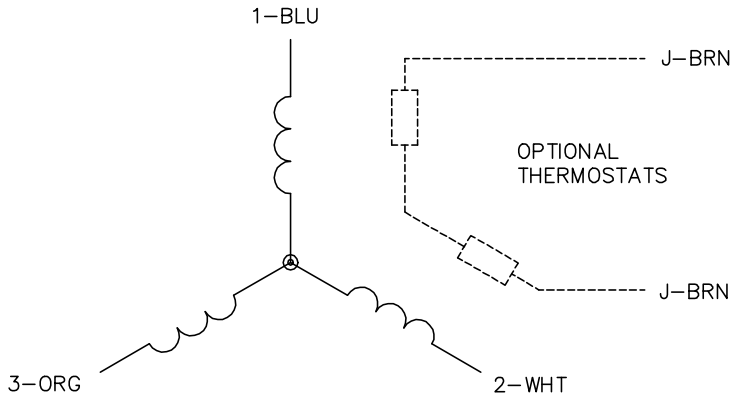
TORQUES(LB-FT): PO=175 PU=60.6 LR=84.1 LRA=181

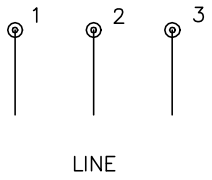



40LYE211
(4024-4046) = 24.69
(4048-4056) = 25.94
(4058-4064) = 26.94
5.250±.031
CHECK W/GAGE T-9041
3.000±.020
4.78
.625±.020
.25
.25 KEY 2.50 LONG
12.500
12.497
13.01
Ø 1.3750 1.3745
.50-13 CL 3B TAP 1.25 DEEP
SLINGER
6 HOLES .53 DIA.
9.50
.63
11.00
4.75
12.25
RODENT SCREENS (WHEN REQ'D)
13.31
12.27
6.70
3.37
45°
45°
13.61
7.00 +.00 -.06
4 HOLES .62-11 TAP Ø11.00 B.C.
(.25)
LEAD HOLE 2.00 DIA.
5.50
5.50
9.71
6.13
12.25
R.054 .043
R.049
Ø 1.3750 1.3745
1.202 1.196
1.2495 1.2490
Ø 1.750 1.748
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: MOVE T-GAGE CALLOUT TO 3.000 JOURNAL DIM
REV: G
VERSION: 07
REVISED: 10:56:05 02/05/2026
TDR: 000001271250
MODEL NO. 40LYE211
REF: -
BY: USJOCUR5
B
BALDOR
HORZ OPSB 284-6JM, SUPER-E
40LYE211

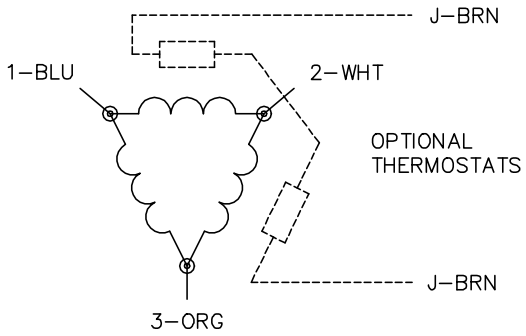
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1