ABB BALDOR RELIANCE

Customer information packet

EJPM2539T

40HP, 1770RPM, 3PH, 60HZ, 324JP, 4064M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	324JP
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	40.000 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	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	49.000 A @ 460.0 V
	98.000 A @ 230.0 V
	99.000 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
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX166
Layout	40LY-000-066
Eff. date	09-04-2026
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	01-15-2021

Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.32 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Full Voltage
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.	EJPM2539T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	40-0000-0191	**CC**	010A	**FRAME**	324JP	**S/N**						
HP	40			**CLASS**	F	**HZ**	60					
RPM	1770			**PH**	3	**DES**	A					
VOLT	230/460			**KVA-CODE**	H	**ODE BRG**	6309	**DE BRG**	6312			
AMP	98/49											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	94.1	**PF**	82	**SER.F.**	1.15							
	50HZ 40HP 190/380V 114/57A					S.F. 1.0						
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 98961
Typical performance - not guaranteed values

Winding: 40WGX166-R001	**Type:** 4064M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			40	**Full Load Torque**	119.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			98/49	**Breakdown Torque**	427 LB-FT
R.P.M.			1770	**Pull-up Torque**	187 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	246 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	330 A
Service Factor (S.F.)			1.15	**No-load Current**	21.1 A
NEMA Nom. Eff.	94.1	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.16236 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	31.7
				Rotor inertia	5.09 lb-ft²

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	82	85	85	84
Efficiency	91.1	94	94.4	94.2	93.6	92.7	93.8
Speed	1792.4	1785	1777.8	1770.2	1762.1	1752.8	1765
Line amperes	24.1	30.7	39.2	48.7	59.3	71.3	55.1

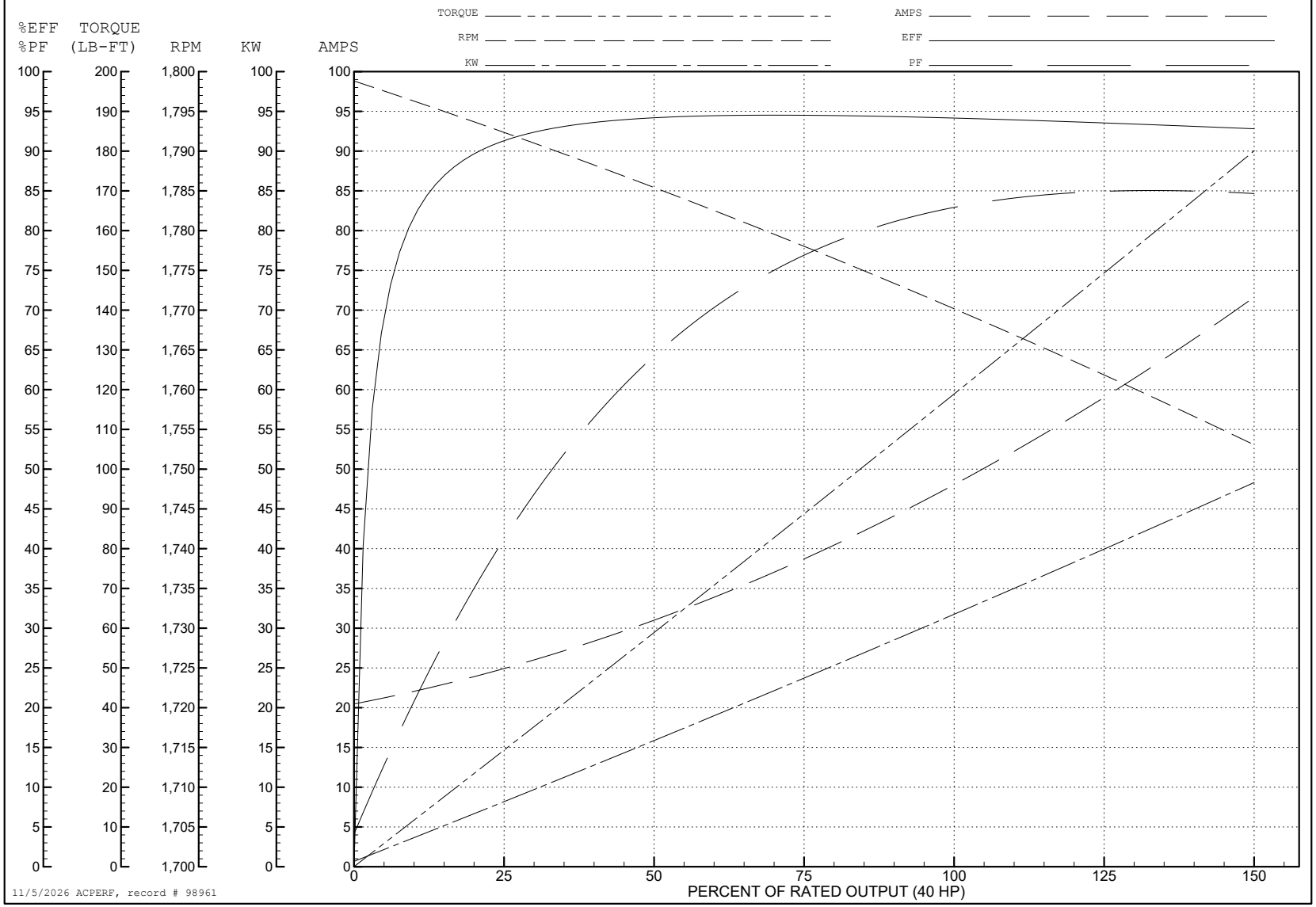
ABB Motors and Mechanical Inc.

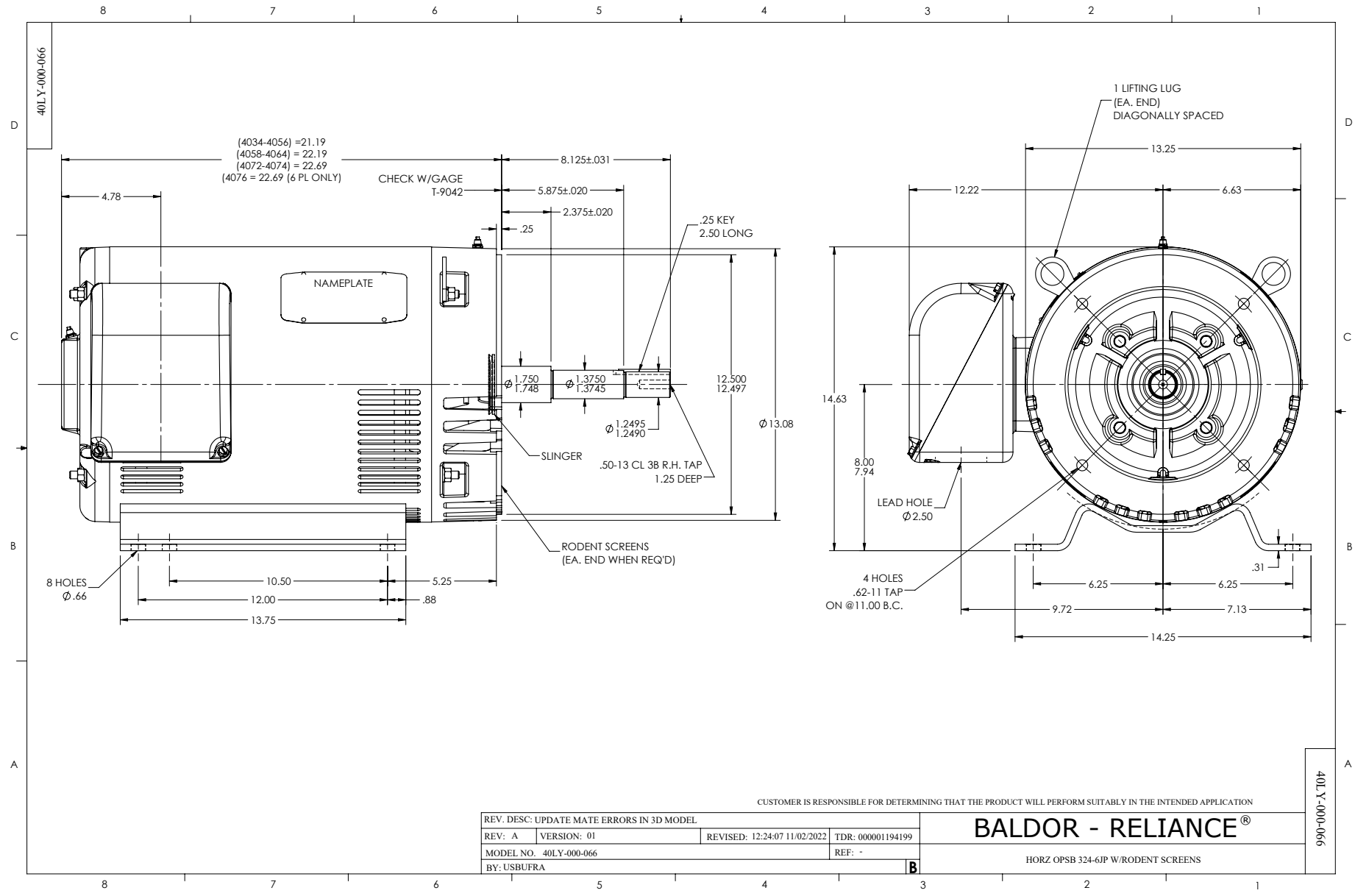
WINDING # 40WGX166

40 HP 3 PH 60 HZ 1770 RPM 460 V 4064M

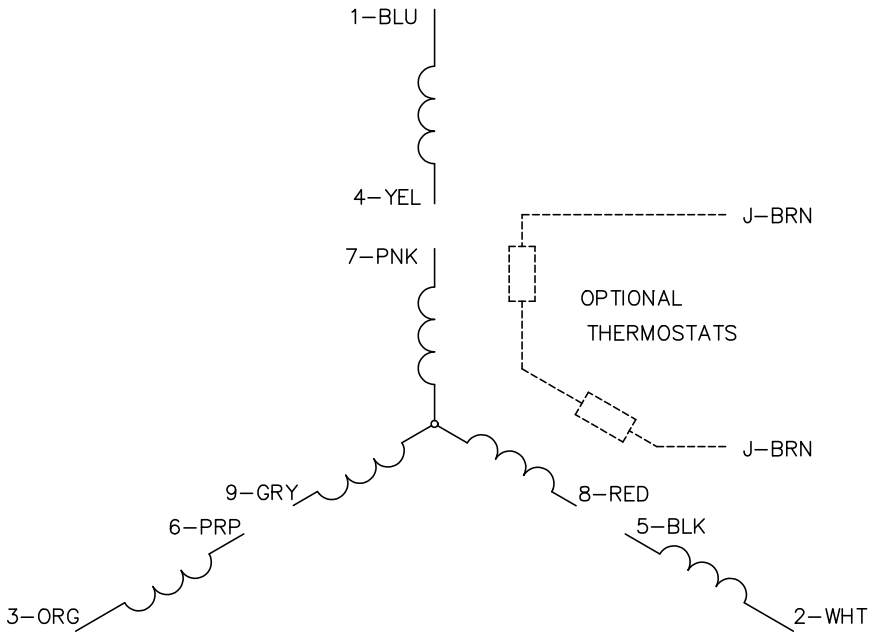
Typical performance - not guaranteed values.

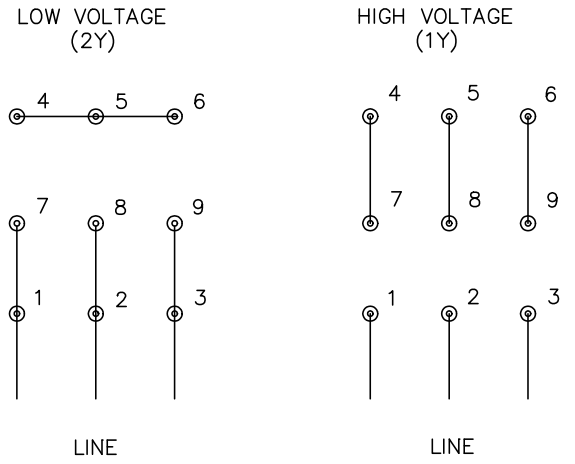
TORQUES(LB-FT): PO=427 PU=187 LR=246 LRA=330




40LY-000-066
(4034-4056) =21.19
(4058-4064) = 22.19
(4072-4074) = 22.69
(4076 = 22.69 (6 PL ONLY)
CHECK W/GAGE
T-9042
8.125±.031
5.875±.020
2.375±.020
.25
4.78
.25 KEY
2.50 LONG
NAMEPLATE
Ø 1.750
1.748
Ø 1.3750
1.3745
12.500
12.497
Ø 1.2495
1.2490
Ø 13.08
SLINGER
.50-13 CL 3B R.H. TAP
1.25 DEEP
RODENT SCREENS
(EA. END WHEN REQ'D)
8 HOLES
Ø .66
10.50
5.25
12.00
.88
13.75
1 LIFTING LUG
(EA. END)
DIAGONALLY SPACED
13.25
12.22
6.63
14.63
8.00
7.94
LEAD HOLE
Ø 2.50
4 HOLES
.62-11 TAP
ON @11.00 B.C.
.31
6.25
6.25
9.72
7.13
14.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE MATE ERRORS IN 3D MODEL
REV: A
VERSION: 01
REVISED: 12:24:07 11/02/2022
TDR: 000001194199
MODEL NO. 40LY-000-066
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ OPSB 324-6JP W/RODENT SCREENS
40LY-000-066

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