



Customer information packet

EJMM2539T-G

64M 4P OPSB HOR 324JM SE

Specifications

Enclosure	OPSB
Frame	324JM
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	UR NEMA PREMIUM CSA EEV 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	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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a

Part detail

Revision	L
Type	AC
Mech. spec.	40E285
Base	
Status	PRD/A
Elec. spec.	40WGX166
Layout	40LYE285
Eff. date	12-11-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	04-03-2019

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP23
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.44 IN
Power Factor	82
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	1.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554LUA											
CAT.NO.	EJMM2539T-G			P/N						ENCL	OPSE
SPEC.	40E285X166G2	CC	010A	FRAME	324JM	SER.NO.					
HP	40		CLASS	H	HZ	60					
RPM	1770		PH	3	DES	A					
VOLTS	230/460			CODE	H	ODE BRG	6309	DE BRG	6312		
AMPS	98/49										
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 40HP 190/380V 114/57A			SF1.0							
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 35574

Typical performance - not guaranteed values

Winding: 40WGX166-R003				Type: 4064M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		119 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	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1.15		Locked-rotor Torque		246 LB-FT	
NEMA Nom. Eff.		94.1		Power Factor		82	
Rating - Duty		40C		AMB-CONT		Starting Current	
S.F. Amps						330 A	
						No-load Current	
						21.1 A	
						Line-line Res. @ 25°C	
						0.16236 Ω	
						Temp. Rise @ Rated Load	
						41°C	
						Temp. Rise @ S.F. Load	
						51°C	
						Locked-rotor Power Factor	
						32	
						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	94.5	94.2	93.6	92.8	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

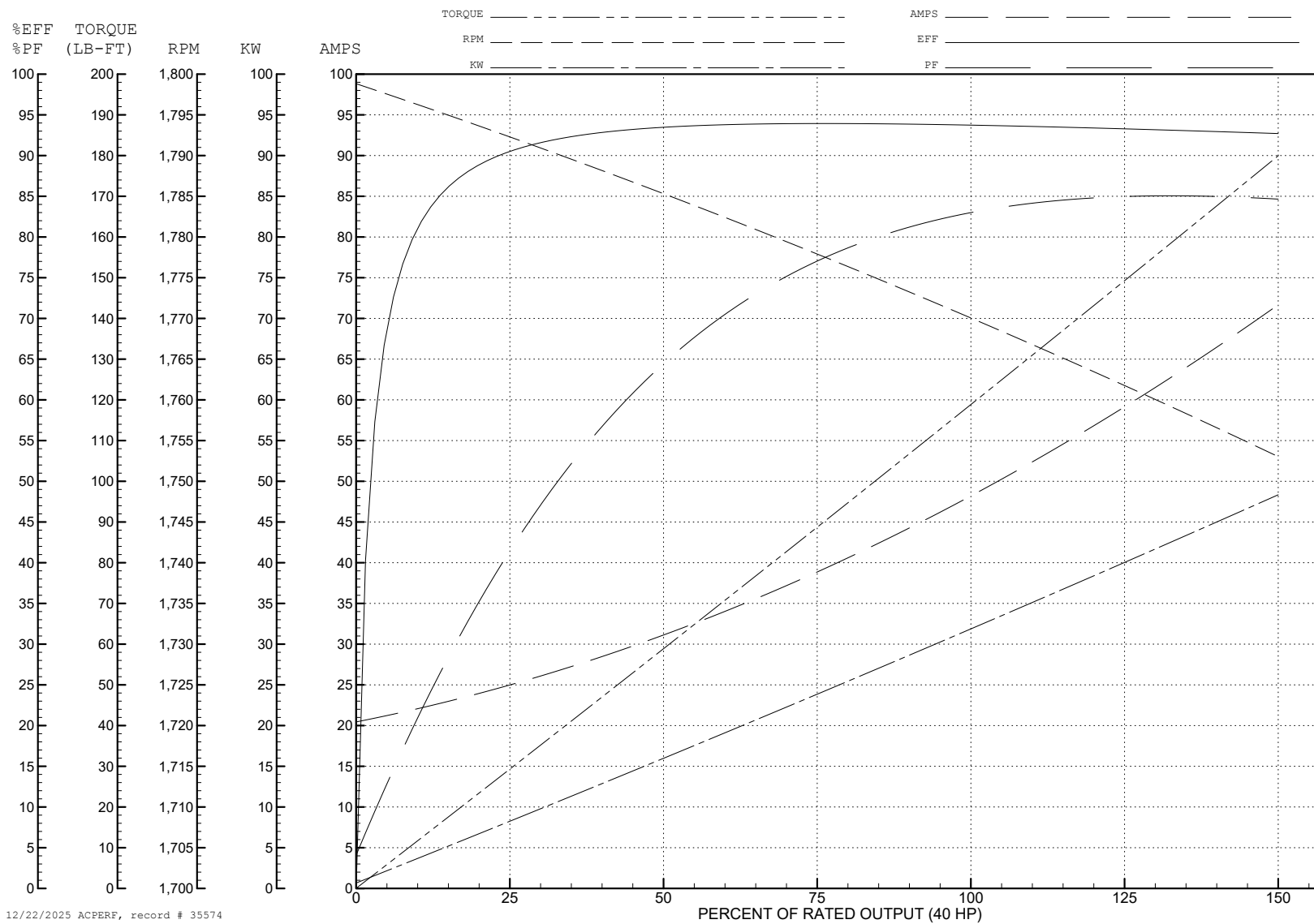
ABB Motors and Mechanical Inc.

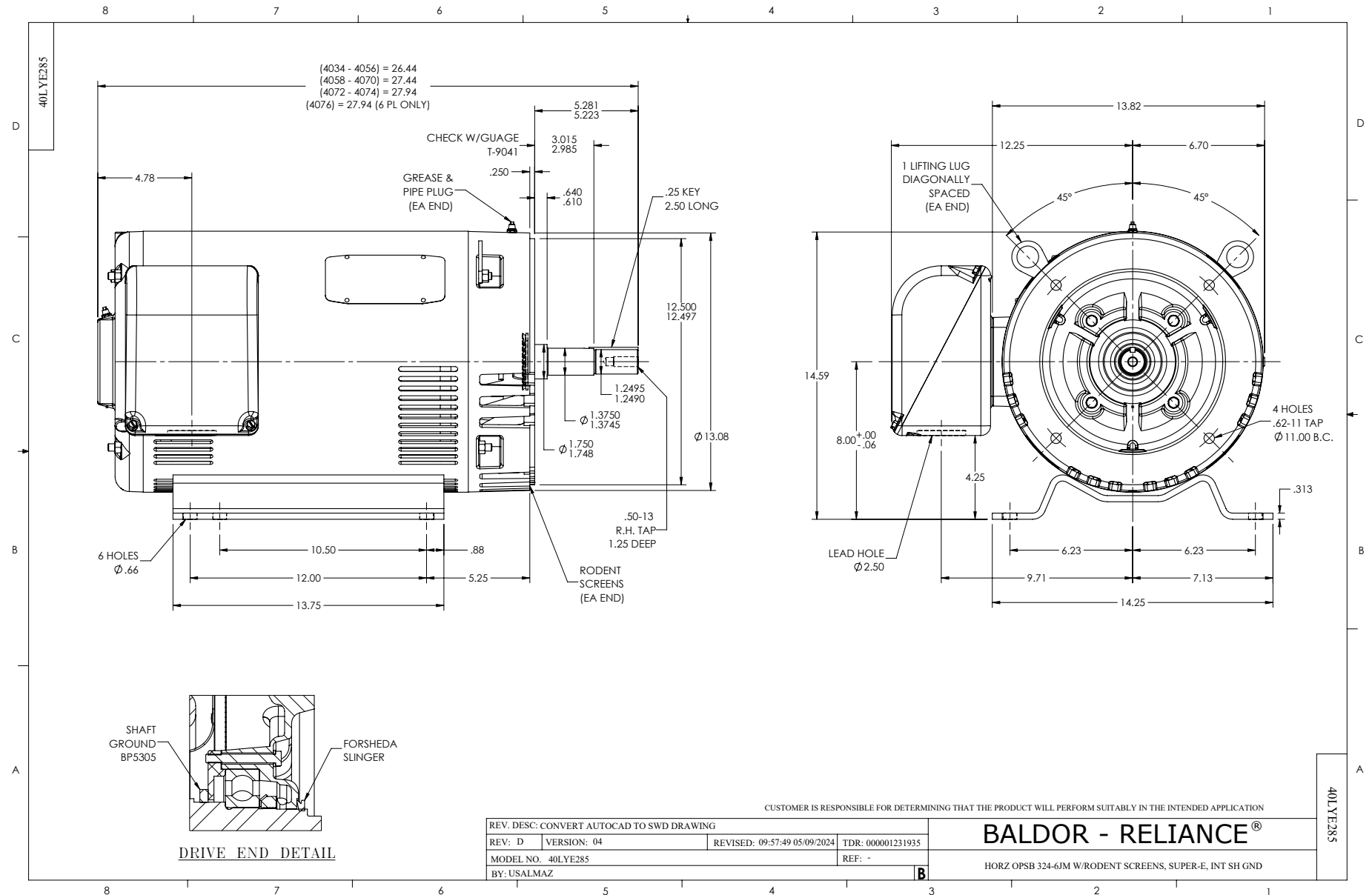
WINDING # 40WG166

Typical performance - not guaranteed values.

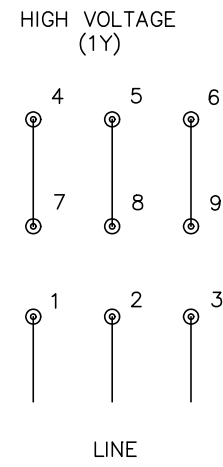
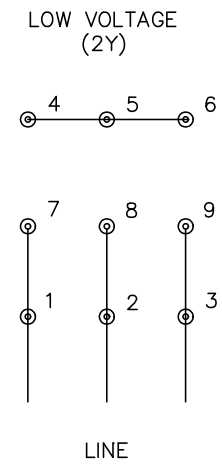
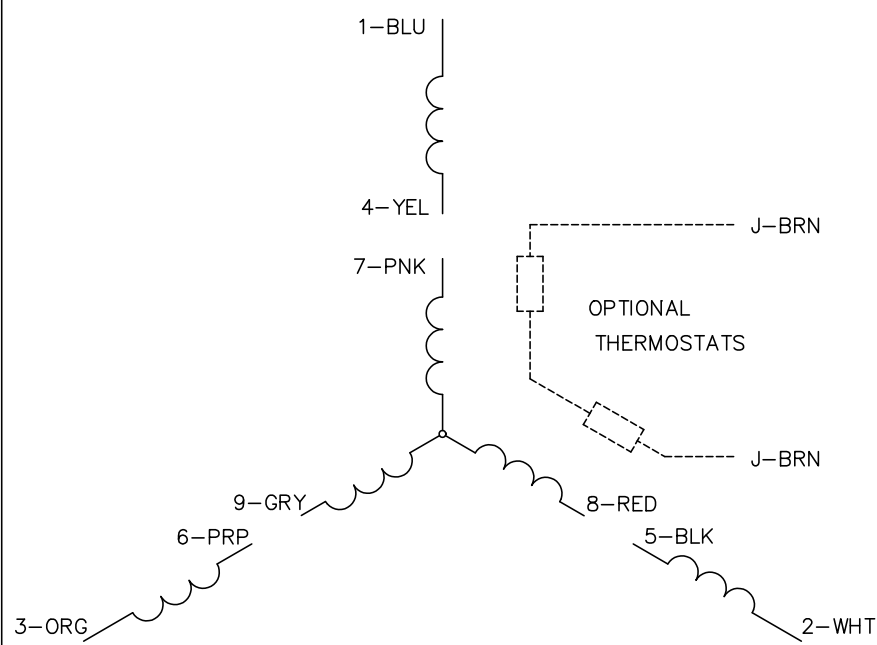
40 HP 3 PH 60 HZ 1770 RPM 460 V 4064M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005