



Customer information packet

EM2539T-5

40HP, 1770RPM, 3PH, 60HZ, 324T, 4064M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	324T
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	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
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	40.000 A @ 575.0 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	40.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	Z
Type	AC
Mech. spec.	40J002
Base	
Status	PRD/A
Elec. spec.	40WGX786
Layout	40LYJ002
Eff. date	04-25-2025
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	11-19-2010

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.19 IN
Power Factor	81
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP3554L											
CAT.NO.	EM2539T-5			P/N						ENCL	OPSB
SPEC.	40J002X786G1	CC	010A	FRAME		324T	SER.NO.				
HP	40		CLASS	F	HZ	60					
RPM	1770		PH	3	DES	A					
VOLTS	575			CODE	H	ODE BRG	6309	DE BRG	6312		
AMPS	40										
RATING	40C AMB-CONT		NEMA-NOM-EFF			94.1	GREASE	POLYREX EM			
PF	81	SER.F.	1.15		VPWM INVERTER READY						
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.								

AC Induction Motor Performance Data

Record # 32859

Typical performance - not guaranteed values

Winding: 40WGX786-R001				Type: 4064M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		40		Full Load Torque		119 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		40		Breakdown Torque		438 LB-FT	
R.P.M.		1770		Pull-up Torque		192 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1.15		No-load Current		17.9 A	
NEMA Nom. Eff.		94.1		Power Factor		81	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	75	81	84	84	83
Efficiency	90.1	93.2	94	93.8	93.3	92.9	93.5
Speed	1793	1785	1778	1771	1763	1754	1766
Line amperes	20.3	25.5	32.1	39.6	48	57.4	44.6

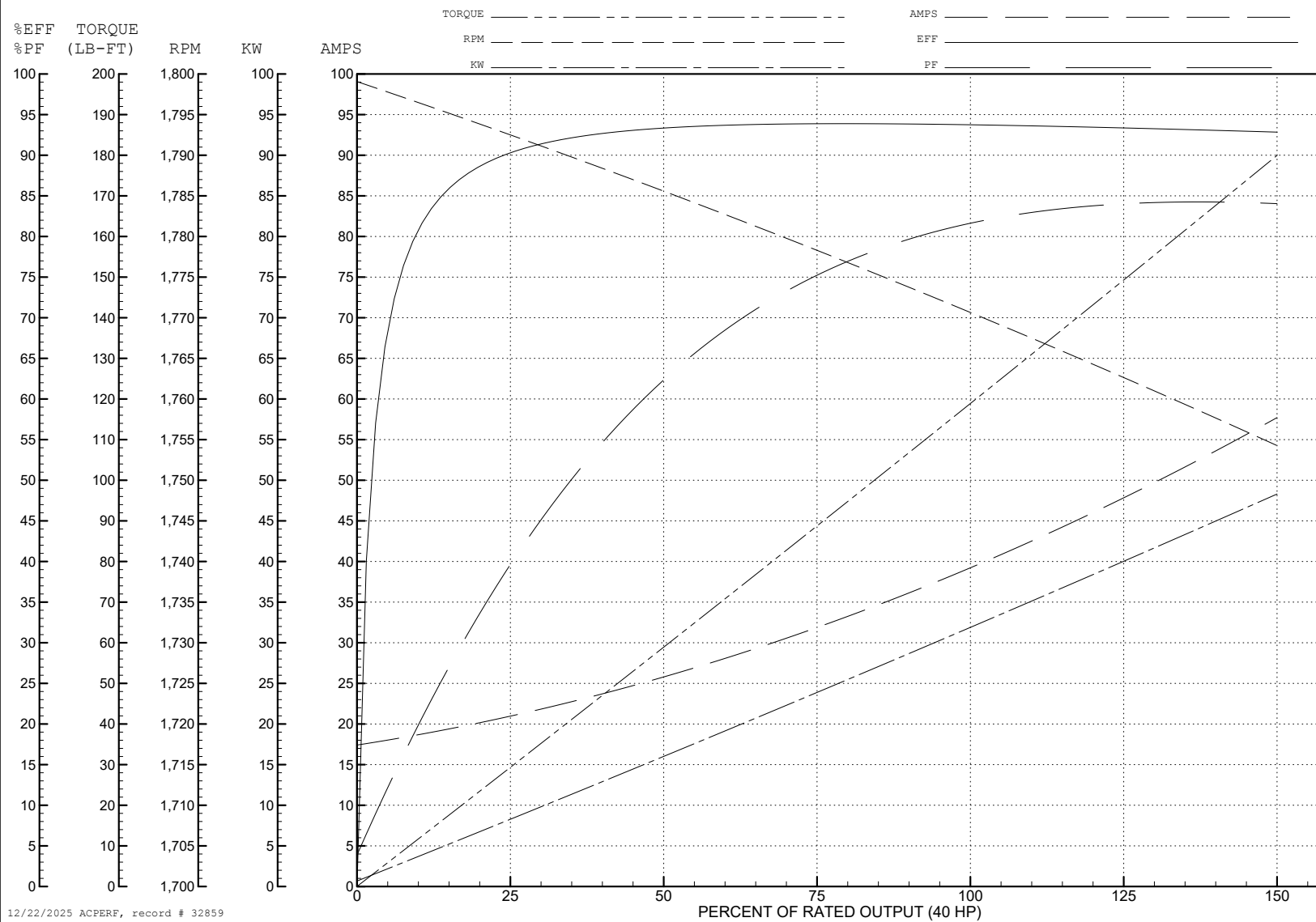
ABB Motors and Mechanical Inc.

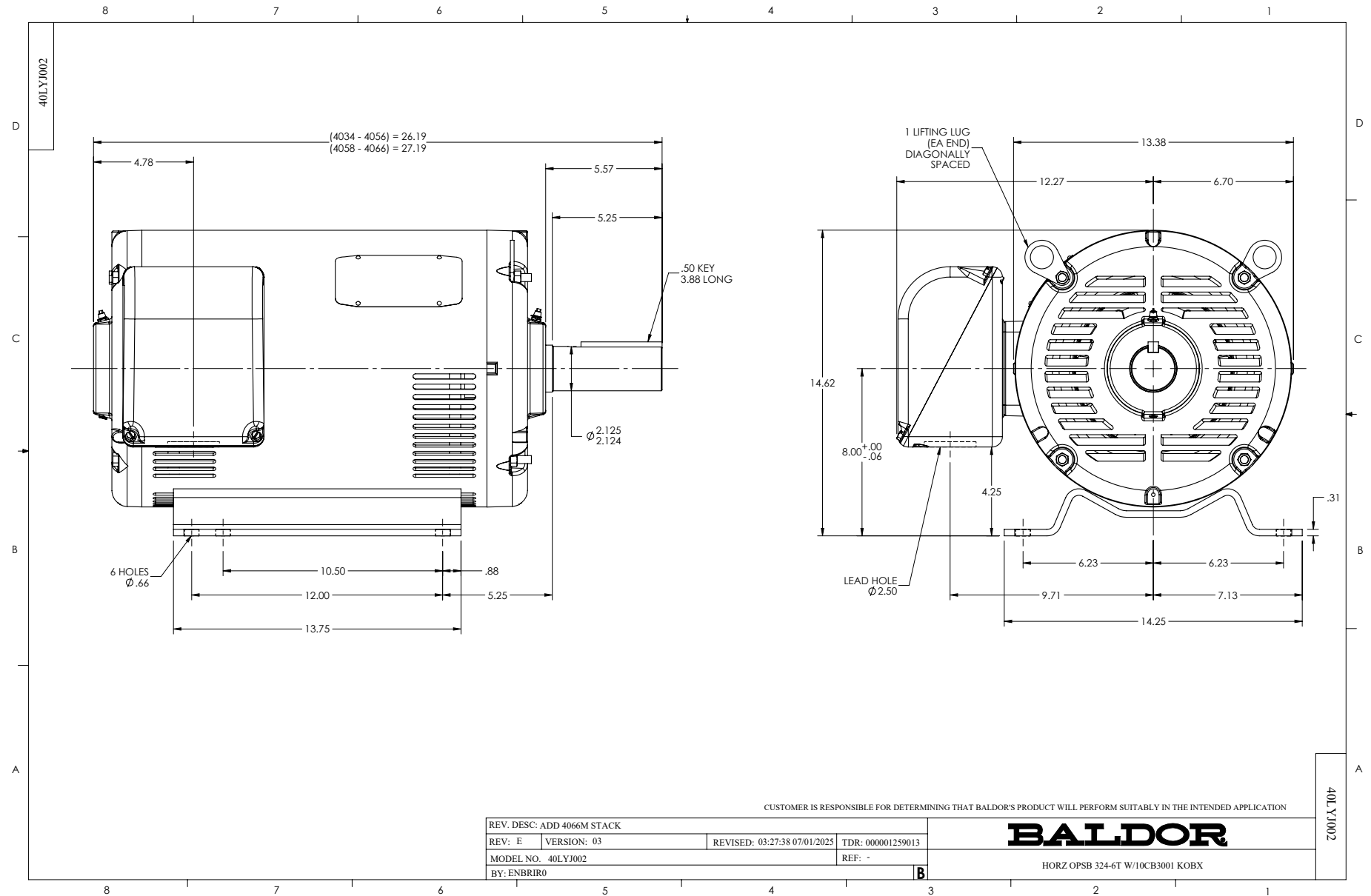
WINDING # 40WGX786

Typical performance - not guaranteed values.

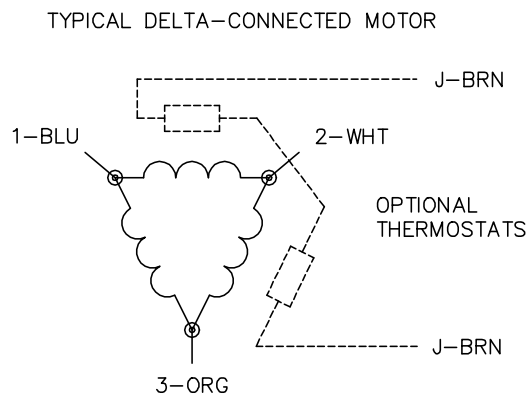
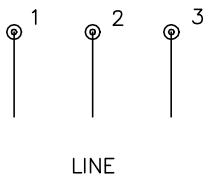
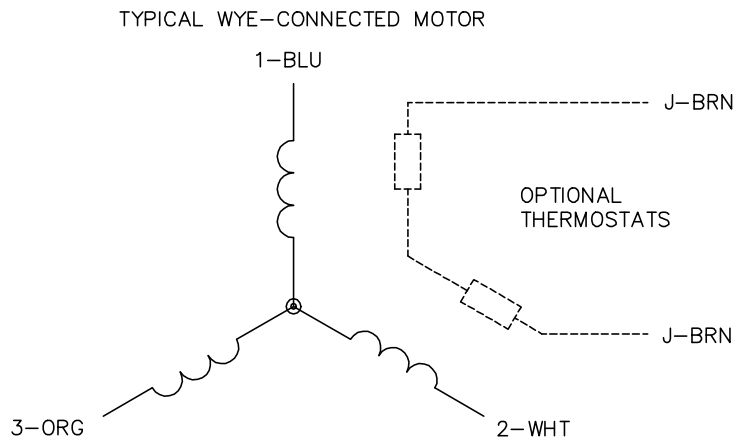
40 HP 3 PH 60 HZ 1770 RPM 575 V 4064M

TORQUES (LB-FT): PO=438 PU=192 LR=253 LRA=272





CD0006



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

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