

# **ABB BALDOR RELIANCE III**

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## **Customer information packet** EM2542T-8

50HP, 3525RPM, 3PH, 60HZ, 324TS, 4058M, OPSB, F

**Specifications**

<b>Enclosure</b>	OPSB
<b>Frame</b>	324TS
<b>Frame Material</b>	Steel
<b>Frequency</b>	60.00 Hz
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	50.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	200.0 V @ 60 HZ
<b>Agency Approvals</b>	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	129.000 A @ 200.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	93.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	129.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE

**Part Detail**

<b>Revision</b>	K
<b>Type</b>	AC
<b>Mech. spec.</b>	40E213
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	40WGX311
<b>Layout</b>	40LYE213
<b>Eff. date</b>	06-27-2024
<b>CD Diagram</b>	CD0695
<b>Poles</b>	02
<b>Leads</b>	6#6
<b>Proprietary</b>	False
<b>Created date</b>	08-12-2015

<b>KVA Code</b>	G
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	6 @ 6 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4058M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	25.69 IN
<b>Power Factor</b>	90
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3525 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Part Winding
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3554L</b>										
<b>CAT.NO.</b>	EM2542T-8			<b>P/N</b>				<b>ENCL</b>		OPSB
<b>SPEC.</b>	40E213X311	<b>CC</b>	010A	<b>FRAME</b>	324TS		<b>SER.NO.</b>			
<b>HP</b>	50		<b>CLASS</b>	F	<b>HZ</b>	60				
<b>RPM</b>	3525		<b>PH</b>	3	<b>DES</b>	A				
<b>VOLTS</b>	200		<b>CODE</b>	G	<b>ODE BRG</b>	6309	<b>DE BRG</b>	6312		
<b>AMPS</b>	129									
<b>RATING</b>	40C AMB-CONT		<b>NEMA-NOM-EFF</b>	93	<b>GREASE</b>	POLYREX EM				
<b>PF</b>	90	<b>SER.F.</b>	1.15	<b>VPWM INVERTER READY</b>						
<b>HTR-VOLTS</b>	<b>HTR-AMPS</b>		<b>MAX. SPACE HEATER TEMP.</b>							

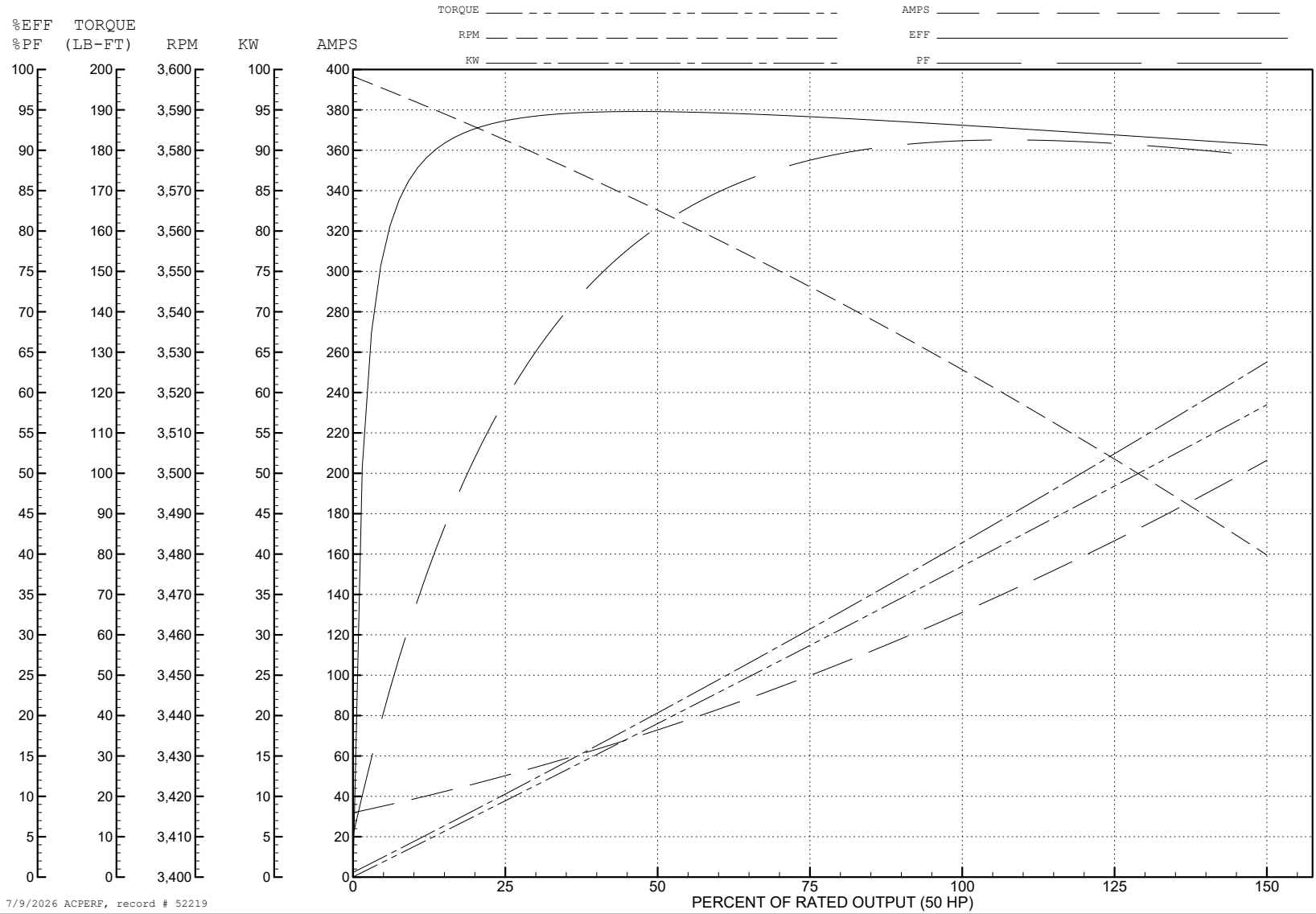
ABB Motors and Mechanical Inc.

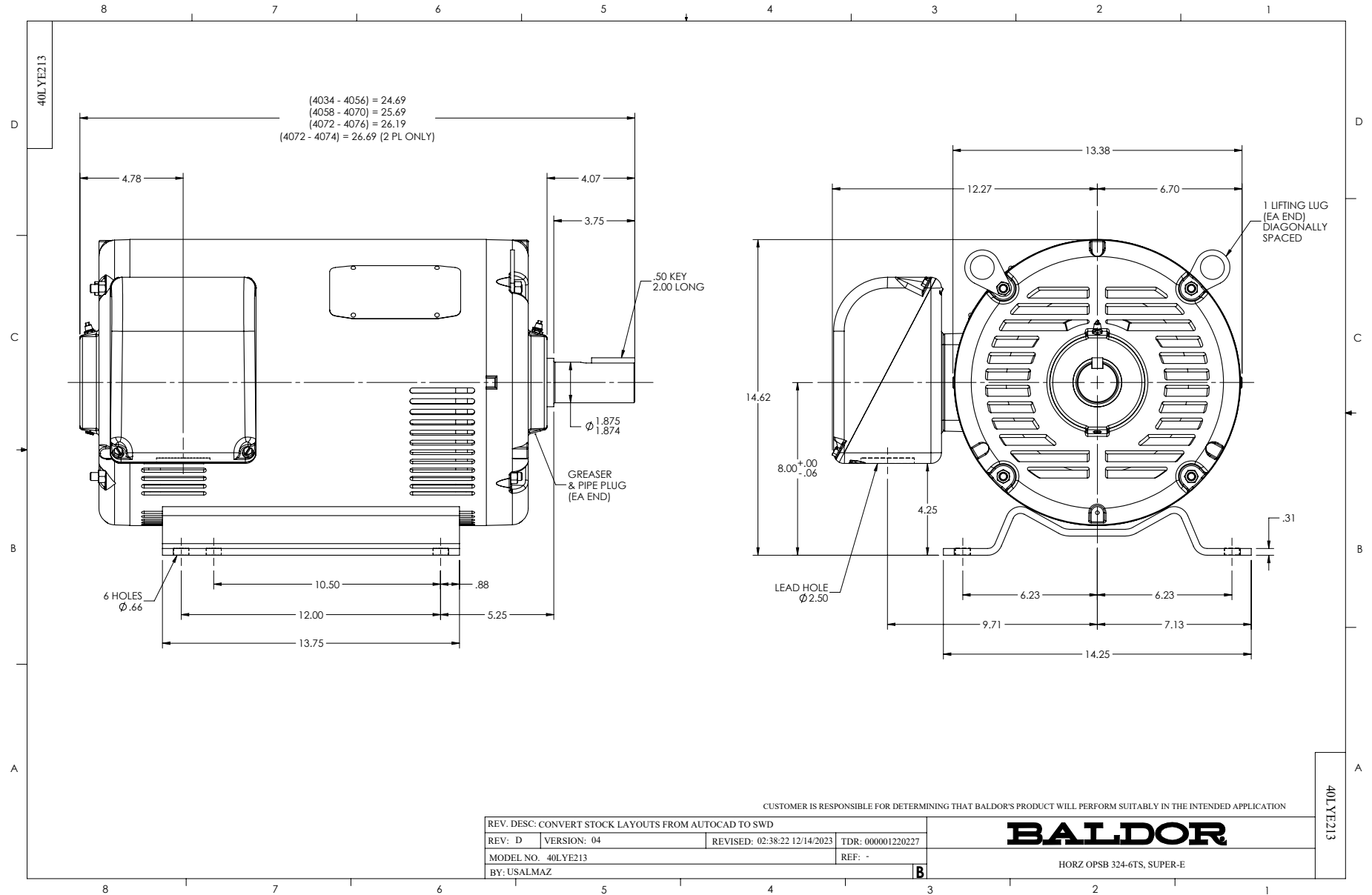
WINDING # 40WGX311

Typical performance - not guaranteed values.

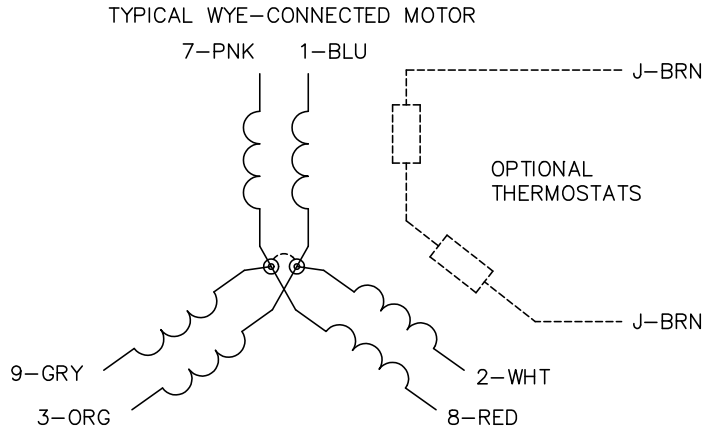
50 HP 3 PH 60 HZ 3525 RPM 200 V 4058M

TORQUES (LB-FT): PO=174 PU=119 LR=139 LRA=892

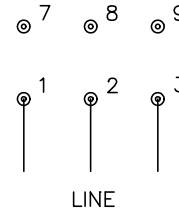




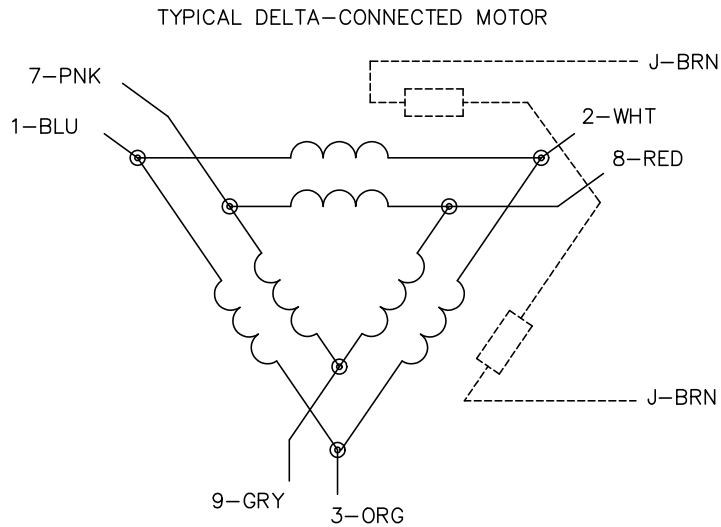
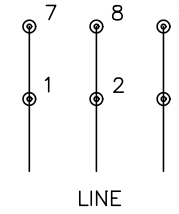
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE 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 ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

S69000

FILE: AAA00005151

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, PART WINDING START