

**BALDOR® • RELIANCE™**

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# Customer information packet

## EGDM2531T

25HP, 1770RPM, 3PH, 60HZ, 284TZ, 4050M, OPSB, F

## Specifications

Enclosure	OPSB
Frame	284TZ
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	64.000 A @ 208.0 V 60.000 A @ 230.0 V 30.000 A @ 460.0 V
Design Code	A
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

## Part detail

Revision	L
Type	AC
Mech. spec.	40E235
Base	
Status	PRD/A
Elec. spec.	40WGX793
Layout	40LYE235
Eff. date	05-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#10 8" from band Y
Proprietary	False
Created date	04-22-2015

High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4050M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.875 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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

**Nameplate**

<b>NP3126L</b>									
<b>CAT.NO.</b>	EGDM2531T								
<b>SPEC.</b>	40E235X793G1								
<b>HP</b>	25								
<b>VOLTS</b>	230/460								
<b>AMP</b>	60/30								
<b>RPM</b>	1770								
<b>FRAME</b>	284TZ	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	G	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	93.6	<b>PF</b>	82						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A	<b>USABLE AT 208V</b>					N/A		
<b>DE</b>	6311	<b>ODE</b>	6309						
<b>ENCL</b>	OPSB	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 41050

Typical performance - not guaranteed values

<b>Winding: 40WGX793-R001</b>		<b>Type: 4050M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	74 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	60/30	<b>Breakdown Torque</b>	216 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	88.8 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	121 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	G	<b>Starting Current</b>	190 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	12.7 A		
<b>NEMA Nom. Eff.</b>	93.6 <b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	0.298 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	28°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	34°C		
		<b>Locked-rotor Power Factor</b>	33.4611		
		<b>Rotor inertia</b>	3.96 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 25 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	46	68	78	82	84	83	83
<b>Efficiency</b>	89.8	93.2	93.9	94	93.5	92.8	93.3
<b>Speed</b>	1793	1787	1781	1774	1766	1757	1769
<b>Line amperes</b>	14.3	18.6	24	30.4	37.2	44.9	34.5

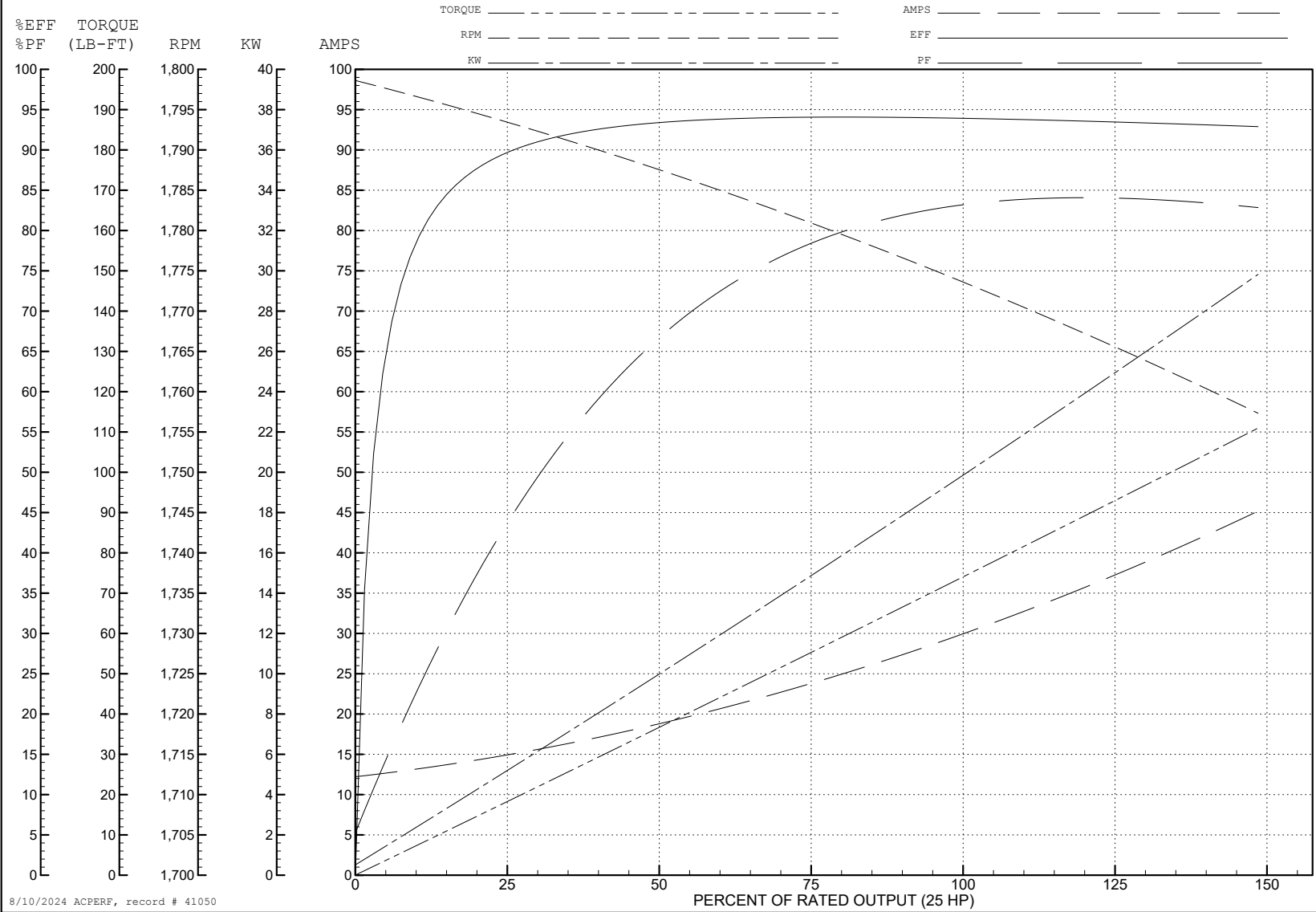
ABB Motors and Mechanical Inc.

WINDING # 40WGx793

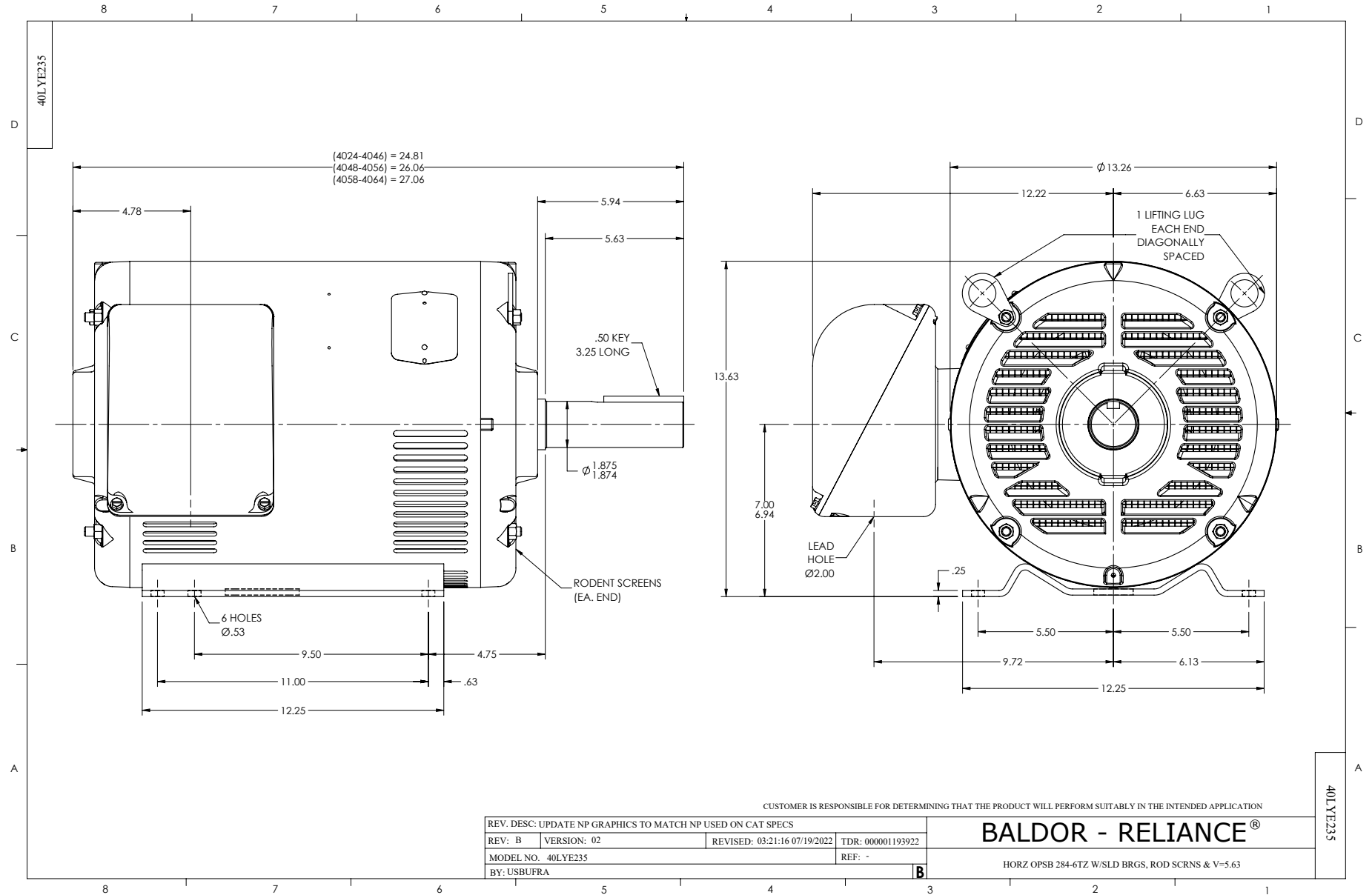
25 HP 3 PH 60 HZ 1770 RPM 460 V 4050M

Typical performance - not guaranteed values.

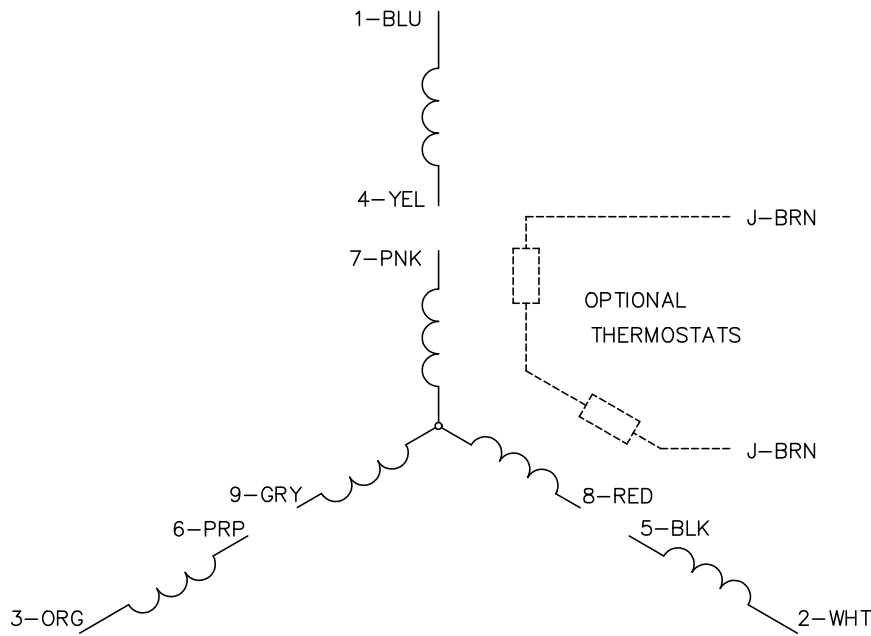
TORQUES (LB-FT): PO=216 PU=88.8 LR=121 LRA=190



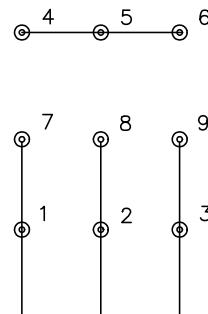
8/10/2024 ACPERF, record # 41050



CD0005

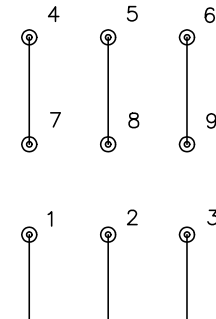


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS