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# Customer information packet

## ECP2394T-5

15HP, 3525RPM, 3PH, 60HZ, 254T, 0934M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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
Constant Torque Speed Range	6
Current @ Voltage	13.800 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	AN
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGY615
Layout	09LYJ371
Eff. date	09-12-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	06-11-2013

<b>Front Shaft Indicator</b>	None
<b>Haz Area Temp Code</b>	T3C
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	13.8 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 12 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0934M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	24.78 IN
<b>Power Factor</b>	88
<b>Product Family</b>	Super-E Chemical Processing
<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>	1.625 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>	Shaft Slinger
<b>Speed</b>	3525 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<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



**AC Induction Motor Performance Data**

Record # 47273

Typical performance - not guaranteed values

<b>Winding: 09WGY615-R011</b>		<b>Type: 0934M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	22.2 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	13.8	<b>Breakdown Torque</b>	103 LB-FT		
<b>R.P.M.</b>	3525	<b>Pull-up Torque</b>	33 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	41 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	H	<b>Starting Current</b>	102 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	4.7 A		
<b>NEMA Nom. Eff.</b>	91.7 <b>Power Factor</b>	88	<b>Line-line Res. @ 25°C</b>	0.886 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	55°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	66°C	
			<b>Locked-rotor Power Factor</b>	28.8	
			<b>Rotor inertia</b>	0.868 LB-FT <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 15 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>	57	78	86	88	91	91	90
<b>Efficiency</b>	86.2	90.8	91.9	91.9	91.5	90.7	91.7
<b>Speed</b>	3583	3567	3550	3533	3514	3493	3522
<b>Line amperes</b>	5.8	8	10.7	13.8	17	20.4	15.7

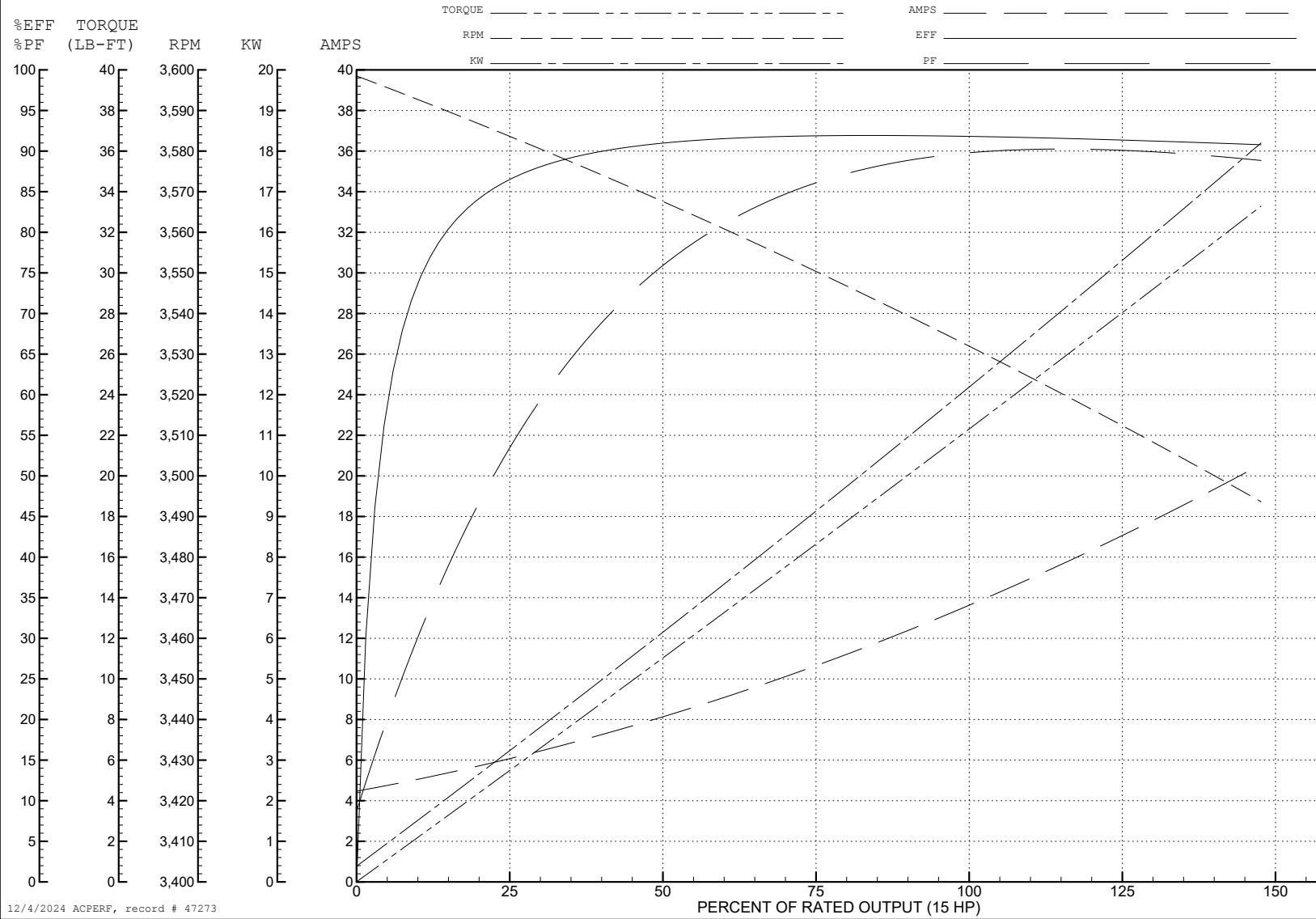
ABB Motors and Mechanical Inc.

WINDING # 09WGY615

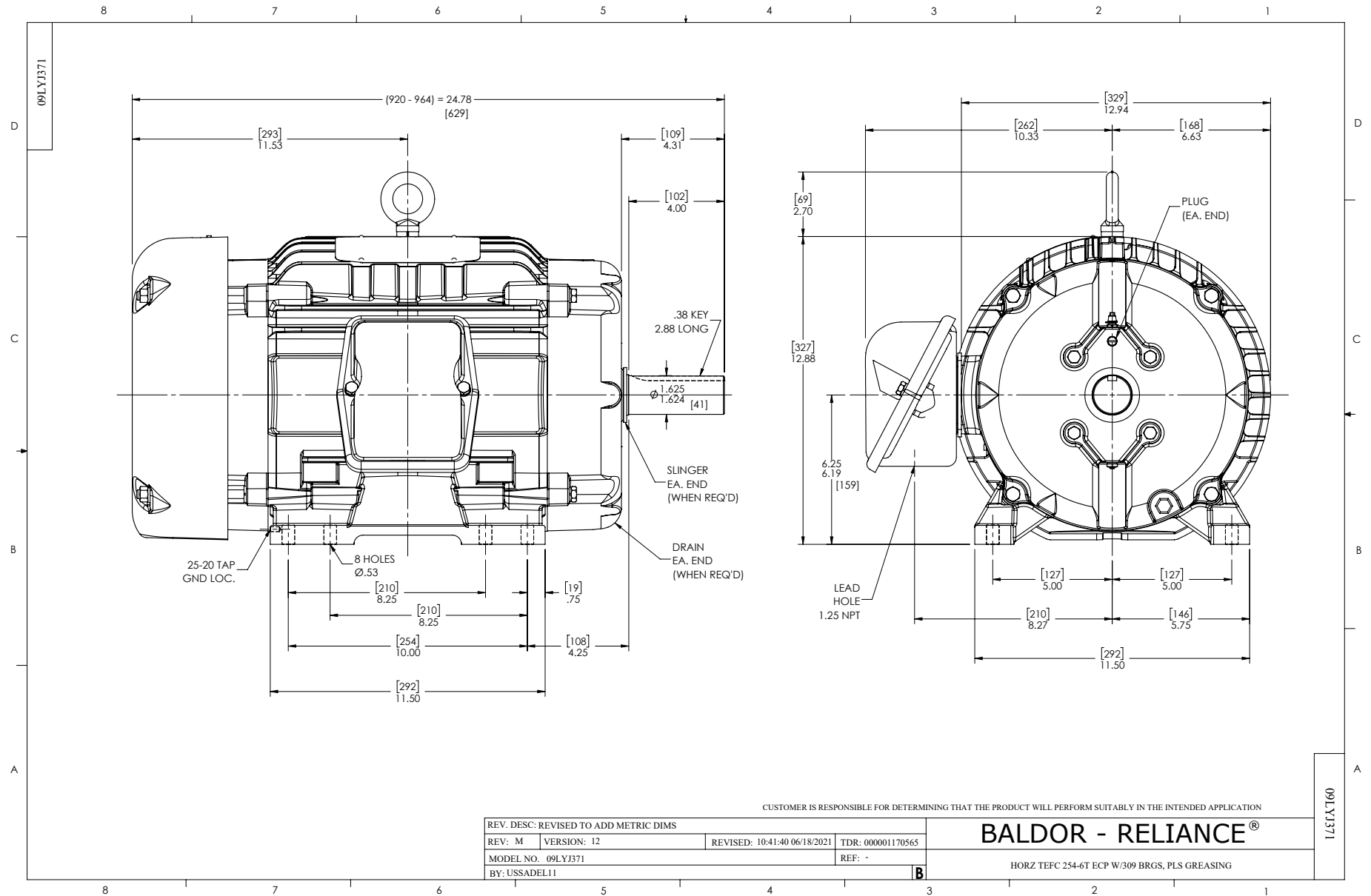
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3525 RPM 575 V 0934M

TORQUES (LB-FT): PO=103 PU=33 LR=41 LRA=102

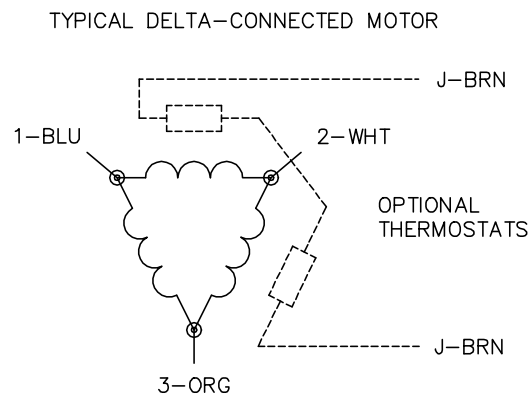
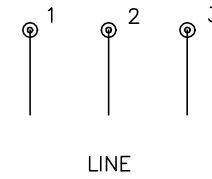
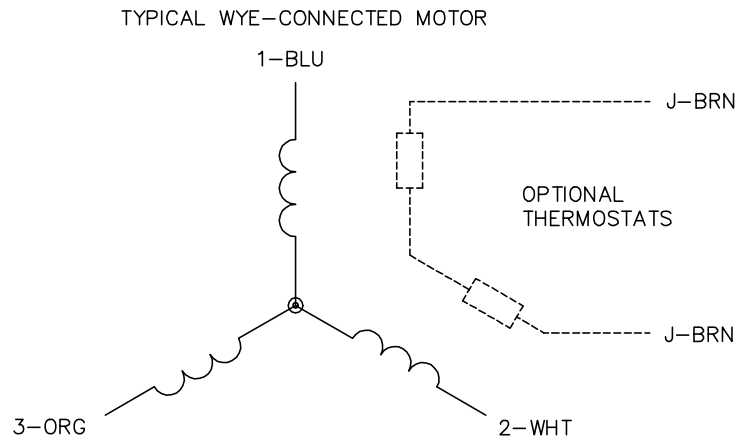


12/4/2024 ACPERF, record # 47273





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

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

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