

**BALDOR • RELIANCE**

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# Customer information packet

## EM2513T-8

15HP, 1770RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
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	41.000 A @ 200.0 V 40.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	41.0 a

## Part detail

Revision	H
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGY441
Layout	39LYK057
Eff. date	06-11-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	01-05-2021

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE
<b>KVA Code</b>	H
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	3 @ 8 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3948M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	23.19 IN
<b>Power Factor</b>	85
<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>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1770 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

**Nameplate**

<b>NP3553L</b>									
<b>CAT.NO.</b>	EM2513T-8								
<b>SPEC</b>	39K057Y441								
<b>HP</b>	15								
<b>VOLTS</b>	200								
<b>AMPS</b>	41								
<b>RPM</b>	1770								
<b>FRAME</b>	254T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SF</b>	1.15	<b>CODE</b>	H	<b>DES</b>	A	<b>CLASS</b>	F		
<b>NEMA NOM. EFF</b>	93	<b>PF</b>	85						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>ENCL</b>	OPSB	<b>SER</b>							
<b>DE</b>	6309		<b>ODE</b>	6208					
<b>VPWM INVERTER READY</b>									
<b>CT30-60(2:1) VT3-60(20:1)</b>									

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
39-3400	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 86060

Preliminary Data Sheet

<b>Winding:</b> 39WGY441-R001		<b>Type:</b> 3948M		<b>Enclosure:</b> OPSB	
<b>Nameplate Data</b>			<b>200 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	44.5 LB-FT		
<b>Volts</b>	200	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	41	<b>Breakdown Torque</b>	151 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	61.8 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	80.6 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	H	<b>Starting Current</b>	279 A
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	15.2 A		
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	85	<b>Line-line Res. @ 25°C</b>	0.122 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	24°C	
<b>S.F. Amps</b>	46.5	<b>Temp. Rise @ S.F. Load</b>	31°C		
		<b>Locked-rotor Power Factor</b>	37.9		
		<b>Rotor inertia</b>	2.1 lb-ft <sup>2</sup>		

**Load Characteristics 200 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>	50	72	81	85	87	87	86
<b>Efficiency</b>	89.8	93	93.4	93	92.2	91.2	92.6
<b>Speed</b>	1793	1787	1779	1771	1763	1753	1766
<b>Line amperes</b>	18.1	24.1	32	40.8	50.3	60.8	46.5

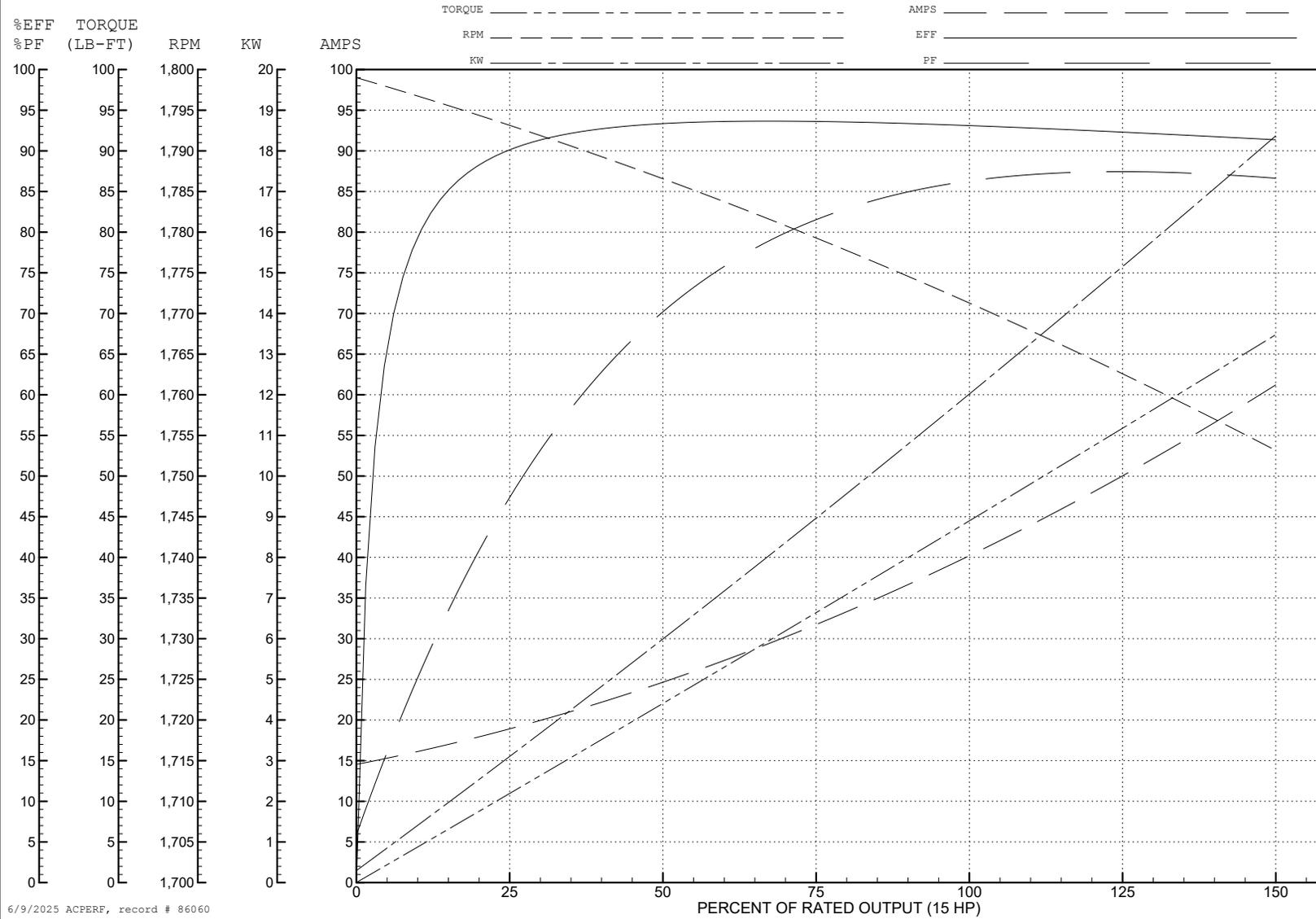
ABB Motors and Mechanical Inc.

WINDING # 39WGY441

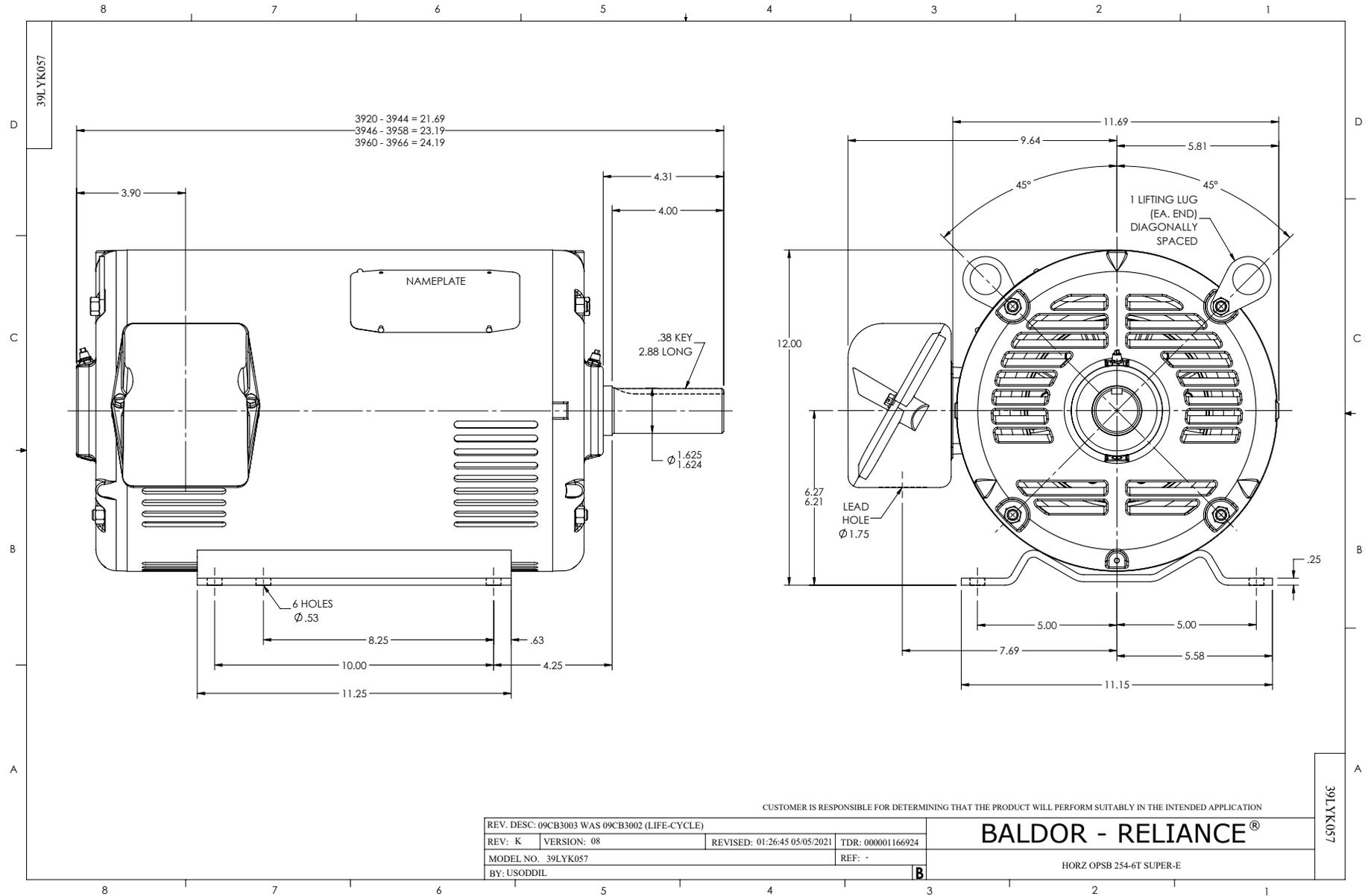
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1770 RPM 200 V 3948M

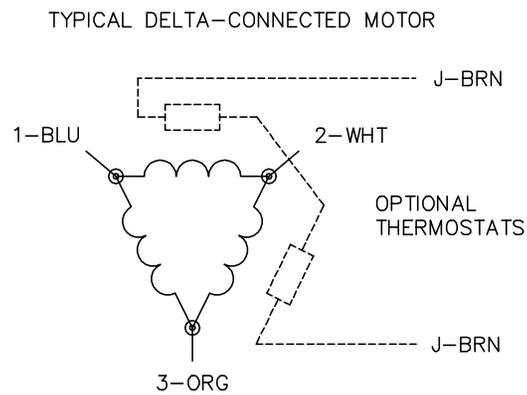
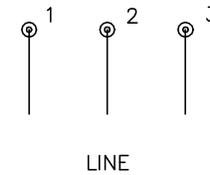
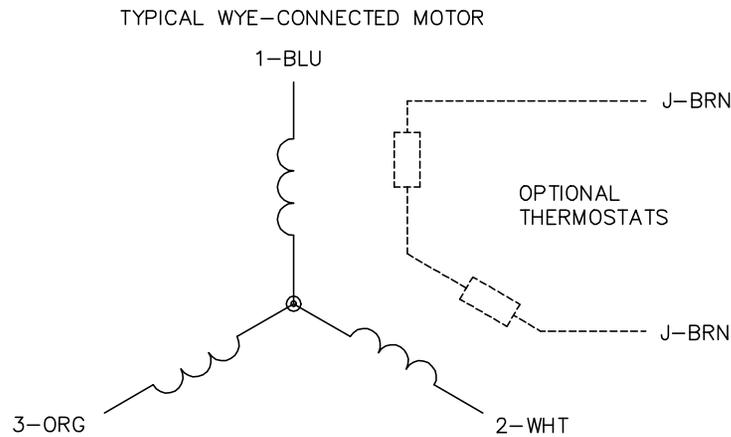
TORQUES (LB-FT): PO=151 PU=61.8 LR=80.6 LRA=279



6/9/2025 ACPERF, record # 86060



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		
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**BALDOR - RELIANCE®**

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

SH 1 of 1