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# Customer information packet

## JMFSWDM23994T-E

15HP, 3540RPM, 3PH, 60HZ, 254JM, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	254JM
Frame Material	Stainless 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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	POLYREX SHC102 EM (-20F +356F)
Blower	None
Current @ Voltage	34.000 A @ 230.0 V 17.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 a
Insulation Class	H

## Part detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGY436
Layout	39LYE754
Eff. date	04-12-2022
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	12-18-2019

<b>Inverter Code</b>	<b>Inverter Duty</b>
<b>KVA Code</b>	<b>K</b>
<b>Lifting Lugs</b>	<b>Standard Lifting Lugs</b>
<b>Locked Bearing Indicator</b>	<b>Locked Bearing</b>
<b>Motor Lead Termination</b>	<b>Flying Leads</b>
<b>Motor Standards</b>	<b>NEMA</b>
<b>Motor Type</b>	<b>3952M</b>
<b>Mounting Arrangement</b>	<b>F1</b>
<b>Number of Poles</b>	<b>2</b>
<b>Overall Length</b>	<b>25.68 IN</b>
<b>Power Factor</b>	<b>90</b>
<b>Product Family</b>	<b>WD All SS Encapsulated</b>
<b>Pulley Face Code</b>	<b>C-Face</b>
<b>Rodent Screen</b>	<b>None</b>
<b>Service Factor</b>	<b>1.00</b>
<b>Shaft Diameter</b>	<b>1.250 IN</b>
<b>Shaft Ground Indicator</b>	<b>No Shaft Grounding</b>
<b>Shaft Rotation</b>	<b>Reversible</b>
<b>Speed</b>	<b>3540 rpm</b>
<b>Speed Code</b>	<b>Single Speed</b>
<b>Starting Method</b>	<b>Direct on line</b>
<b>Thermal Device - Bearing</b>	<b>None</b>
<b>Thermal Device - Winding</b>	<b>None</b>
<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP1953L01</b>									
<b>CAT.NO.</b>	JMFSWDM23994T-E								
<b>SPEC.</b>	39-0000-0237								
<b>HP</b>	15								
<b>VOLTS</b>	230/460								
<b>AMPS</b>	34/17								
<b>R.P.M.</b>	3540								
<b>FRAME</b>	254JM		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.00	<b>CODE</b>	K	<b>DES.</b>	A	<b>CLASS</b>	H		
<b>NEMA NOM. EFF.</b>	91		<b>P.F.</b>	90					
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A		<b>USABLE AT 208V</b>				N/A		
<b>DE</b>	6309		<b>ODE</b>	6309					
<b>ENCL</b>	TEFC	<b>SN</b>							
	2:1 CT/10:1 VT								

**AC Induction Motor Performance Data**

Record # 80274

Typical performance - not guaranteed values

<b>Winding: 39WGY436-R001</b>		<b>Type: 3952M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	22.36 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	34/17	<b>Breakdown Torque</b>	110 LB-FT		
<b>R.P.M.</b>	3540	<b>Pull-up Torque</b>	44.53 LB-FT		
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	53.82 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	K	<b>Starting Current</b>	153 A
<b>Service Factor (S.F.)</b>	1	<b>No-load Current</b>	4.89 A		
<b>NEMA Nom. Eff.</b>	91	<b>Power Factor</b>	90	<b>Line-line Res. @ 25°C</b>	0.447 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	68°C	
			<b>Locked-rotor Power Factor</b>	27.2	
			<b>Rotor inertia</b>	1.33 lb-ft <sup>2</sup>	

**Load Characteristics 460 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>Power Factor</b>	65	82	88	91	92	92
<b>Efficiency</b>	83.8	89.5	91.1	91.3	91	90.3
<b>Speed</b>	3584	3569	3553	3536	3518	3499
<b>Line amperes</b>	6.63	9.59	13.23	17	21.13	25.36

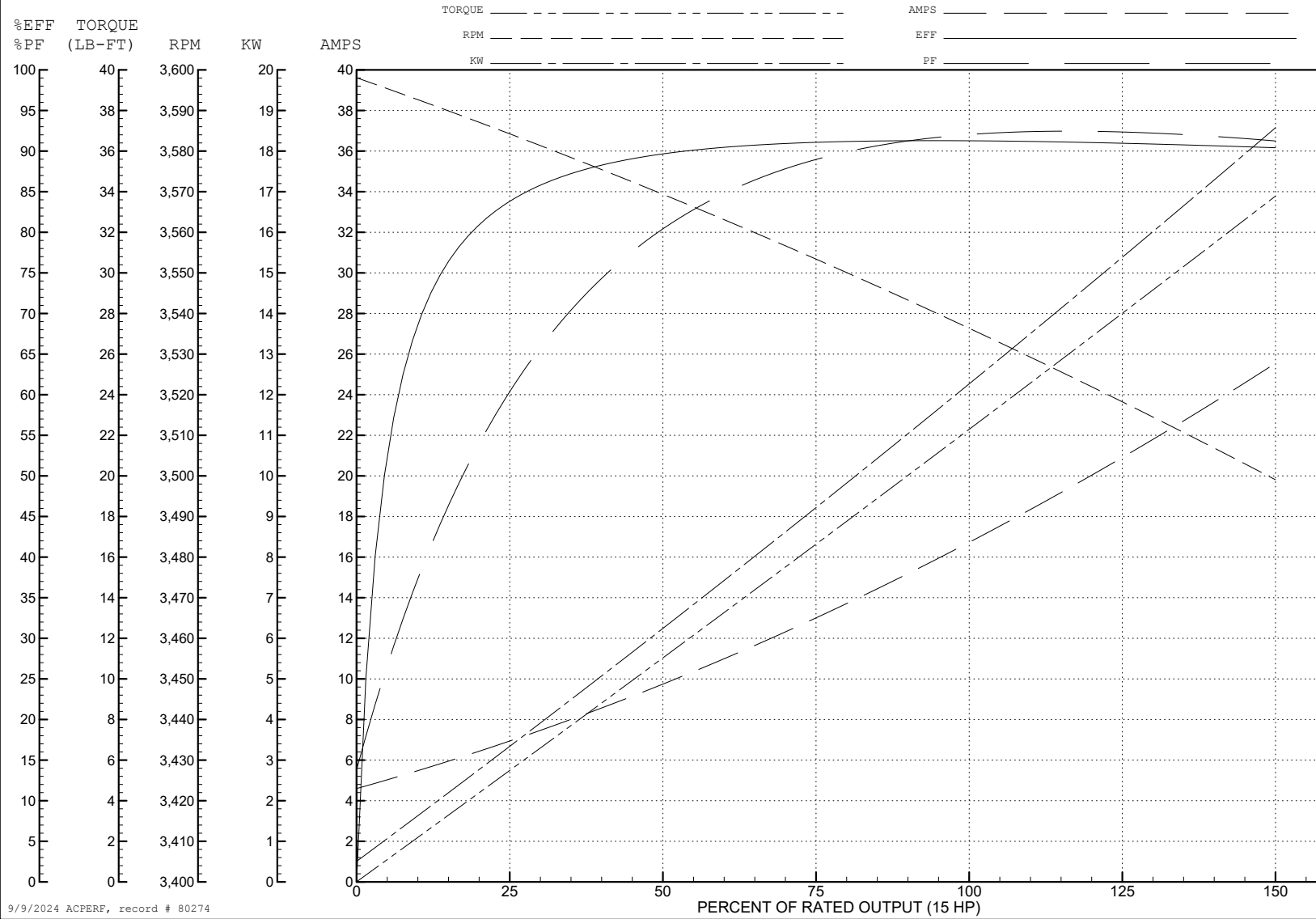
ABB Motors and Mechanical Inc.

WINDING # 39WGY436

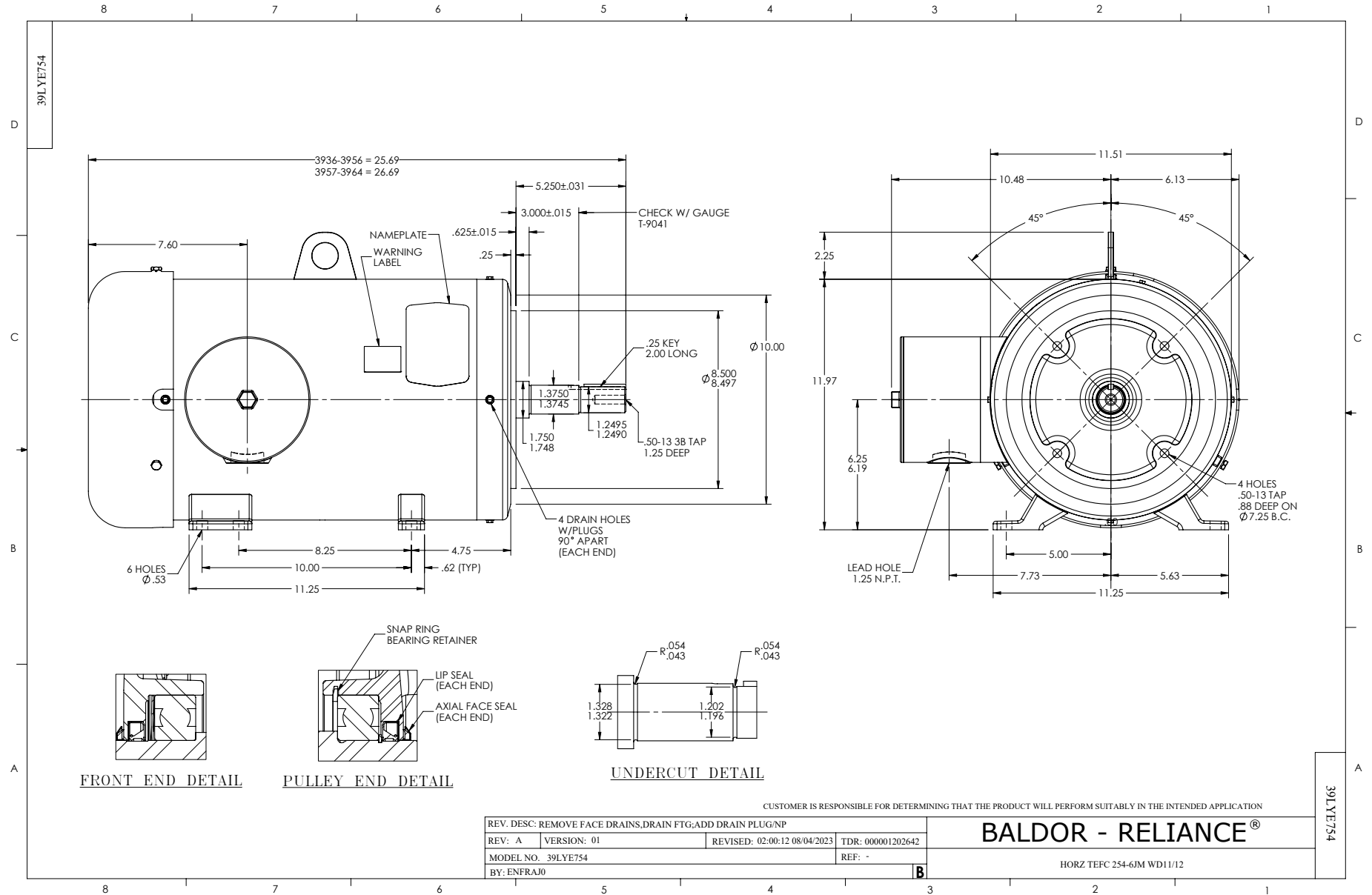
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3540 RPM 460 V 3952M

TORQUES (LB-FT): PO=110 PU=44.53 LR=53.82 LRA=153



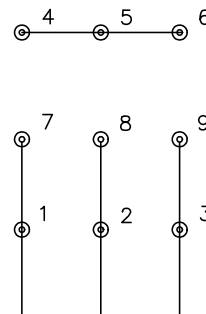
9/9/2024 ACPERF, record # 80274



CD0005

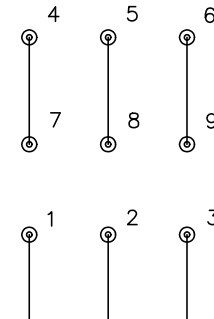


LOW VOLTAGE  
(2Y)



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