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# Customer information packet

## EM4110T-8

40HP, 1775RPM, 3PH, 60HZ, 326T, 1254M, TEFC, N

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	111.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	111.0 a
Insulation Class	F

## Part detail

Revision	C
Type	AC
Mech. spec.	12H13
Base	
Status	PRD/A
Elec. spec.	12WGZ281
Layout	12LYH013
Eff. date	06-27-2024
CD Diagram	CD0695
Poles	04
Leads	6#4
Proprietary	False
Created date	07-07-2021

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Part Winding
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**

**NP3443L**

<b>CAT.NO.</b>	EM4110T-8	<b>CUST. P/N</b>				<b>ENCL</b>	<b>TEFC</b>
<b>SPEC.</b>	12H013Z281	<b>CC</b>	010A	<b>FRAME</b>	326T	<b>SER.NO.</b>	
<b>HP</b>	40	<b>CLASS</b>		F	<b>HZ</b>	60	
<b>R.P.M.</b>	1775	<b>PH</b>	3	<b>DES</b>	A		
<b>VOLTS</b>	200	<b>CODE</b>		H	<b>ODE BRG</b>	6311	<b>DE BRG</b> 6312
<b>AMPS</b>	111						
<b>RATING</b>	40C AMB-CONT	<b>NEMA NOM. EFF.</b>			94.1	<b>GREASE</b>	POLYREX EM
<b>P.F.</b>	82	<b>SER.F.</b>	1.15	<b>VPWM INVERTER READY</b>			
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>			

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
12-1105	C FACE KIT	A8
12EP1501A03SP	D-FLANGE KIT	A8

**AC Induction Motor Performance Data**

Record # 89139

Typical performance - not guaranteed values

<b>Winding: 12WGZ281-R001</b>		<b>Type: 1254M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>200 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	40	<b>Full Load Torque</b>	118 LB-FT		
<b>Volts</b>	200	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	111	<b>Breakdown Torque</b>	364 LB-FT		
<b>R.P.M.</b>	1775	<b>Pull-up Torque</b>	172 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	183 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	H	<b>Starting Current</b>	758 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	43.8 A	
<b>NEMA Nom. Eff.</b>	94.1 <b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	0.027 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	53°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	64°C	
			<b>Locked-rotor Power Factor</b>	27.0508	
			<b>Rotor inertia</b>	7.19 lb-ft <sup>2</sup>	

**Load Characteristics 200 V, 60 Hz, 40 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>	47	68	77	82	84	85	83
<b>Efficiency</b>	90.1	93.6	94.4	94.4	94.2	93.3	94.3
<b>Speed</b>	1795	1790	1785	1780	1774	1767	1776
<b>Line amperes</b>	51.7	68.4	88.8	111	136	162	126

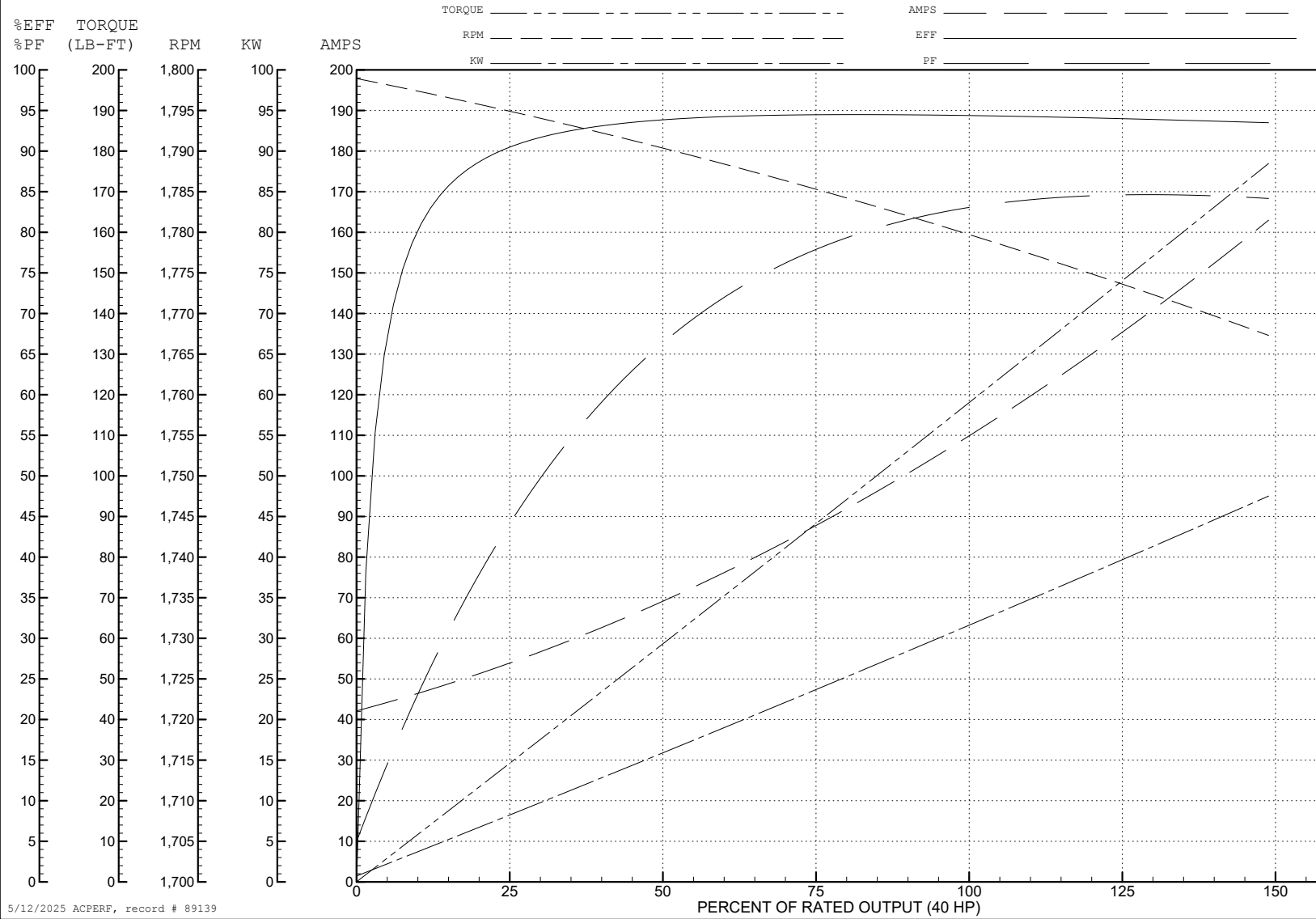
ABB Motors and Mechanical Inc.

WINDING # 12WGZ281

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 200 V 1254M

TORQUES (LB-FT): PO=364 PU=172 LR=183 LRA=758

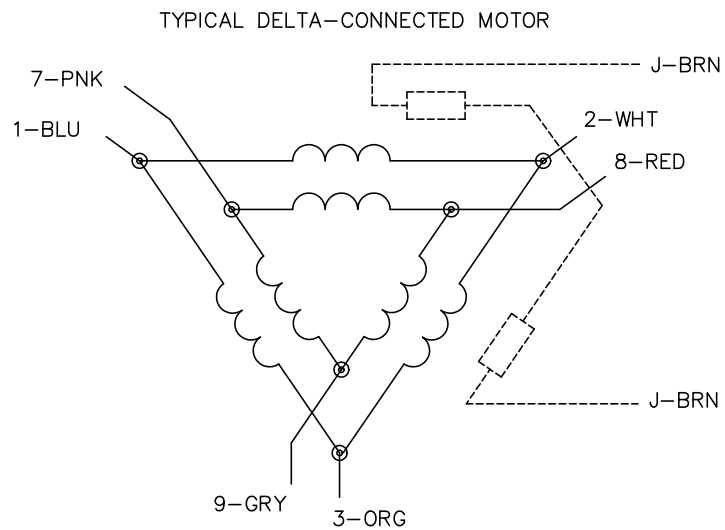
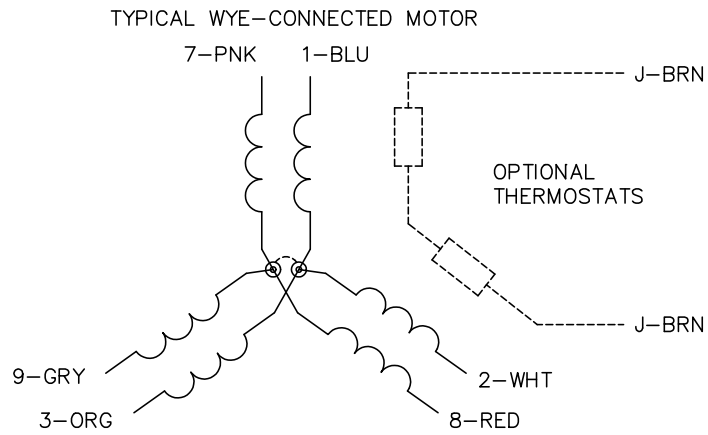


5/12/2025 ACPERF, record # 89139

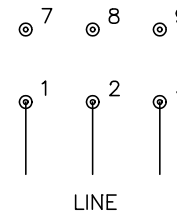




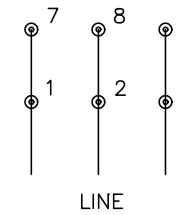
CD0695



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