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# Customer information packet

## EFM4110T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1254M, TEFC, F2

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV 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	48.000 A @ 460.0 V 96.000 A @ 230.0 V 102.000 A @ 208.0 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 Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	Y
Type	AC
Mech. spec.	12C56
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYC056
Eff. date	02-16-2022
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	08-09-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F2
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
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

**Winding Thermal 2**

**None**

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**Nameplate**

**NP3443LUA**

<b>CAT.NO.</b>	EFM4110T	<b>CUST. P/N</b>				<b>ENCL</b>	<b>TEFC</b>
<b>SPEC.</b>	12C056Y276G2	<b>CC</b>	010A	<b>FRAME</b>	324T	<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>	230/460	<b>CODE</b>	H	<b>ODE BRG</b>	6311	<b>DE BRG</b>	6312
<b>AMPS</b>	96/48	<b>USABLE AT 208V</b>		102			
<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>CT6-60H(10:1)VT3-60H(20:1)</b>			
<b>USABLE AT</b>	50HZ 40HP 190/380V 114/57A		<b>SF1.0</b>				
<b>VOLTS</b>	<b>AMPS</b>	<b>MAX. SPACE HEATER TEMP.</b>					

**AC Induction Motor Performance Data**

Record # 31673

Typical performance - not guaranteed values

Winding: 12WGY276-R001		Type: 1254M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	40	Full Load Torque	119 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	96/48	Breakdown Torque	396 LB-FT	
R.P.M.	1775	Pull-up Torque	198 LB-FT	
Hz	60 Phase	Locked-rotor Torque	222 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	347 A	
Service Factor (S.F.)	1.15	No-load Current	21.03 A	
NEMA Nom. Eff.	94.1 Power Factor	Line-line Res. @ 25°C	0.139 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	54°C	
S.F. Amps		Temp. Rise @ S.F. Load	66°C	
		Locked-rotor Power Factor	27.1	
		Rotor inertia	7.19 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 40 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	77	82	84	85	83
Efficiency	89.8	93.4	94.1	94.4	93.9	93.1	94.1
Speed	1794	1788	1783	1777	1771	1765	1773
Line amperes	23.93	30.4	39.12	48.68	59.71	71.22	55.3

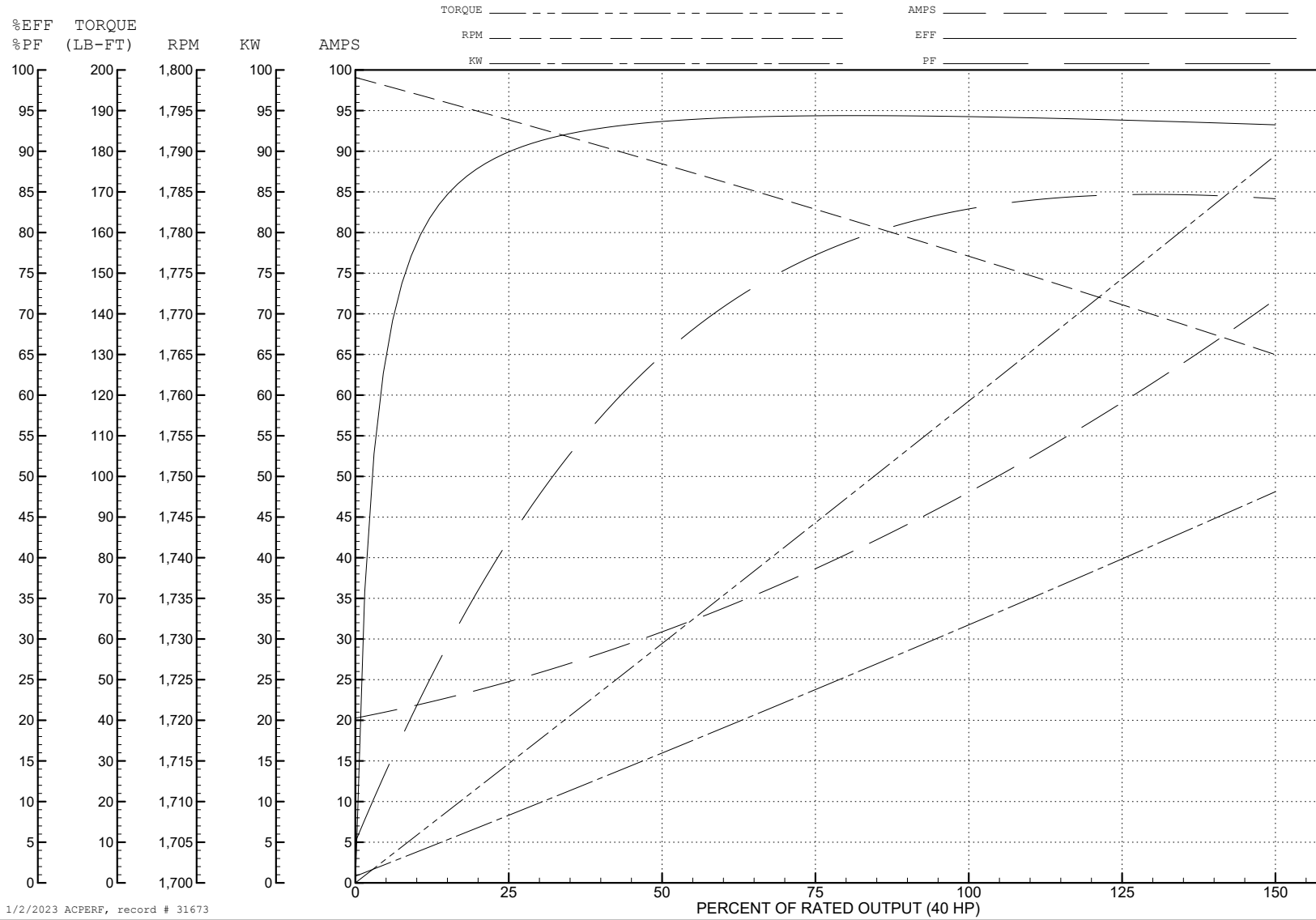
ABB Motors and Mechanical Inc.

WINDING # 12WGY276

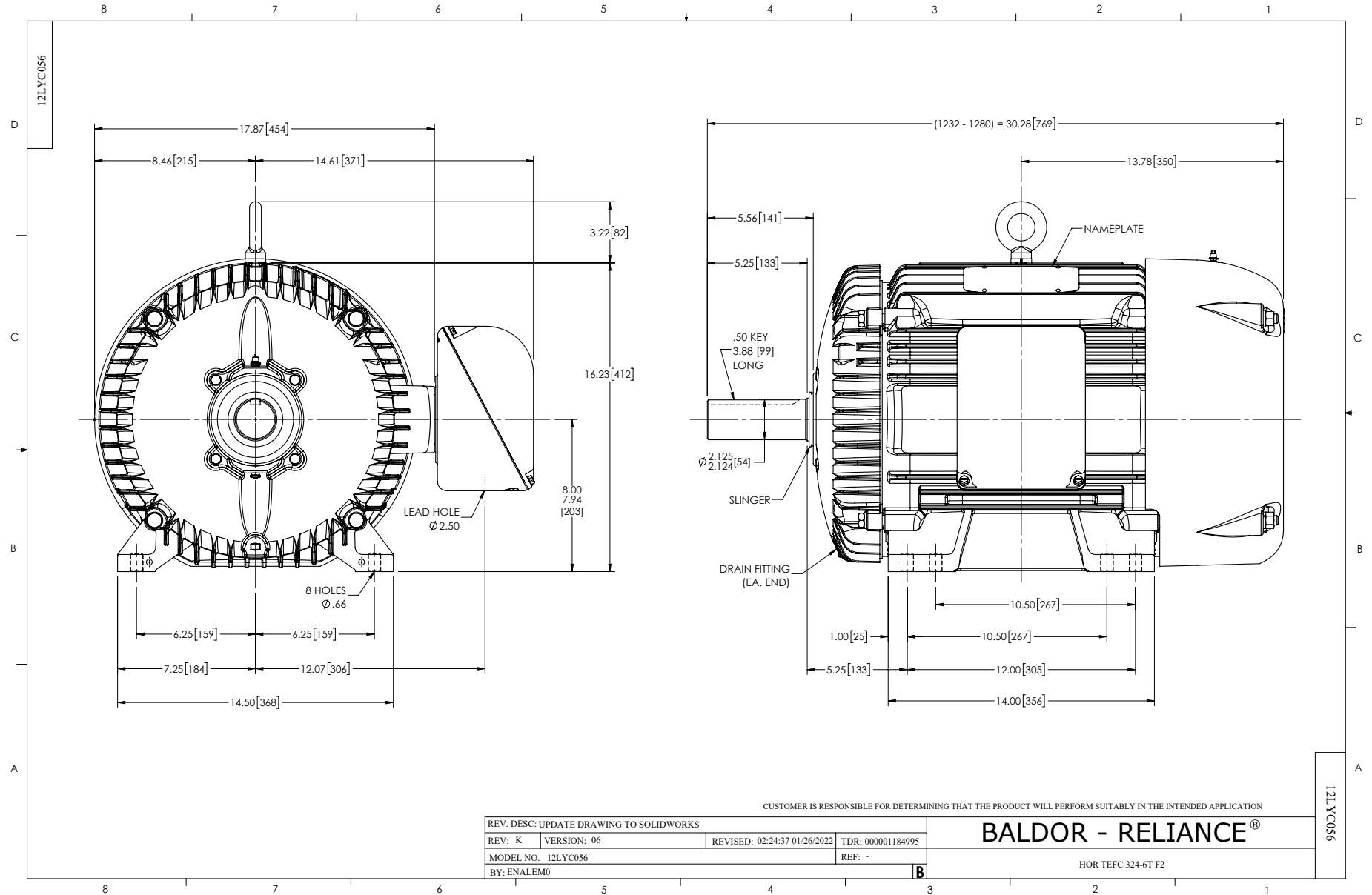
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

TORQUES (LB-FT): PO=396 PU=198 LR=222 LRA=347

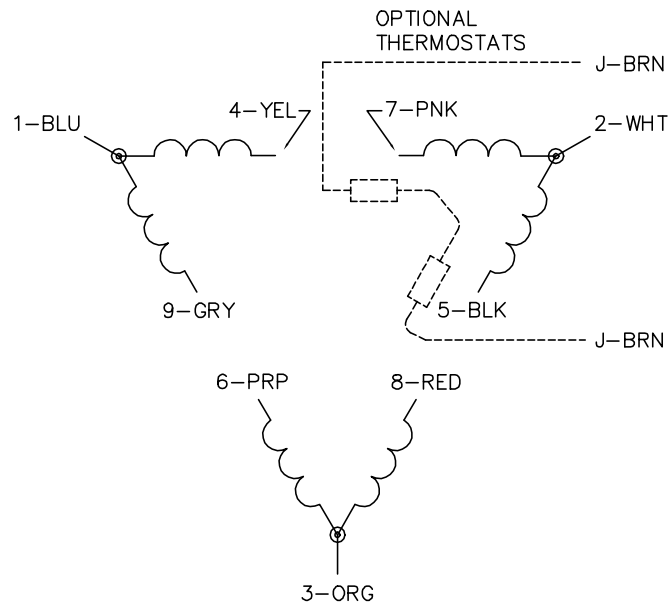


1/2/2023 ACPERF, record # 31673

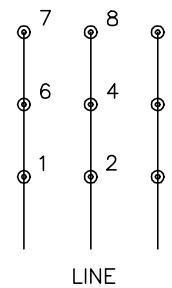




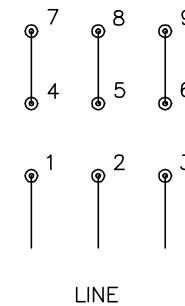
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



**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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1