



Customer information packet

EM4110T-12

40HP, 1770RPM, 3PH, 60HZ, 324T, 1260M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
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	460.0 V @ 60 HZ 230.0 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	48.000 A @ 460.0 V 96.000 A @ 230.0 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	T
Type	AC
Mech. spec.	12C51
Base	
Status	PRD/A
Elec. spec.	12WGY339
Layout	12LYC051
Eff. date	01-14-2025
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	08-03-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	83
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	1770 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1

None

Winding Thermal 2

None

Nameplate

NP3443L

CAT.NO.	EM4110T-12	CUST. P/N				ENCL	TEFC
SPEC.	12C051Y339G1	CC	010A	FRAME	324T	SER.NO.	
HP	40	CLASS		F	HZ	60	
R.P.M.	1770	PH	3	DES	A		
VOLTS	230/460	CODE		H	ODE BRG	6311	DE BRG 6312
AMPS	96/48						
RATING	40C AMB-CONT	NEMA NOM. EFF.			94.1	GREASE	POLYREX EM
P.F.	83	SER.F.	1.15	VPWM INVERTER READY			
HTR-VOLTS		HTR-AMPS		HTR-WATTS			

AC Induction Motor Performance Data

Record # 32033

Typical performance - not guaranteed values

Winding: 12WGY339-R001		Type: 1260M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	40	Full Load Torque	118 LB-FT		
Volts	208-230/460	Start Configuration	direct on line		
Full Load Amps	102-96/48	Breakdown Torque	430 LB-FT		
R.P.M.	1770	Pull-up Torque	210 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	199 LB-FT	
NEMA Design Code	A KVA Code	H	Starting Current	349 A	
Service Factor (S.F.)	1.15		No-load Current	19.3 A	
NEMA Nom. Eff.	94.1	Power Factor	83	Line-line Res. @ 25°C	0.13252 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	51°C	
S.F. Amps			Temp. Rise @ S.F. Load	61°C	
			Locked-rotor Power Factor	27	
			Rotor inertia	7.99 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	79	83	86	86	85
Efficiency	90.1	93.7	94.5	94.5	94.2	93.5	94.3
Speed	1795.1	1790.2	1784.9	1779.7	1774.3	1766.5	1776
Line amperes	22.5	29.1	37.7	47.9	58.1	72.5	54

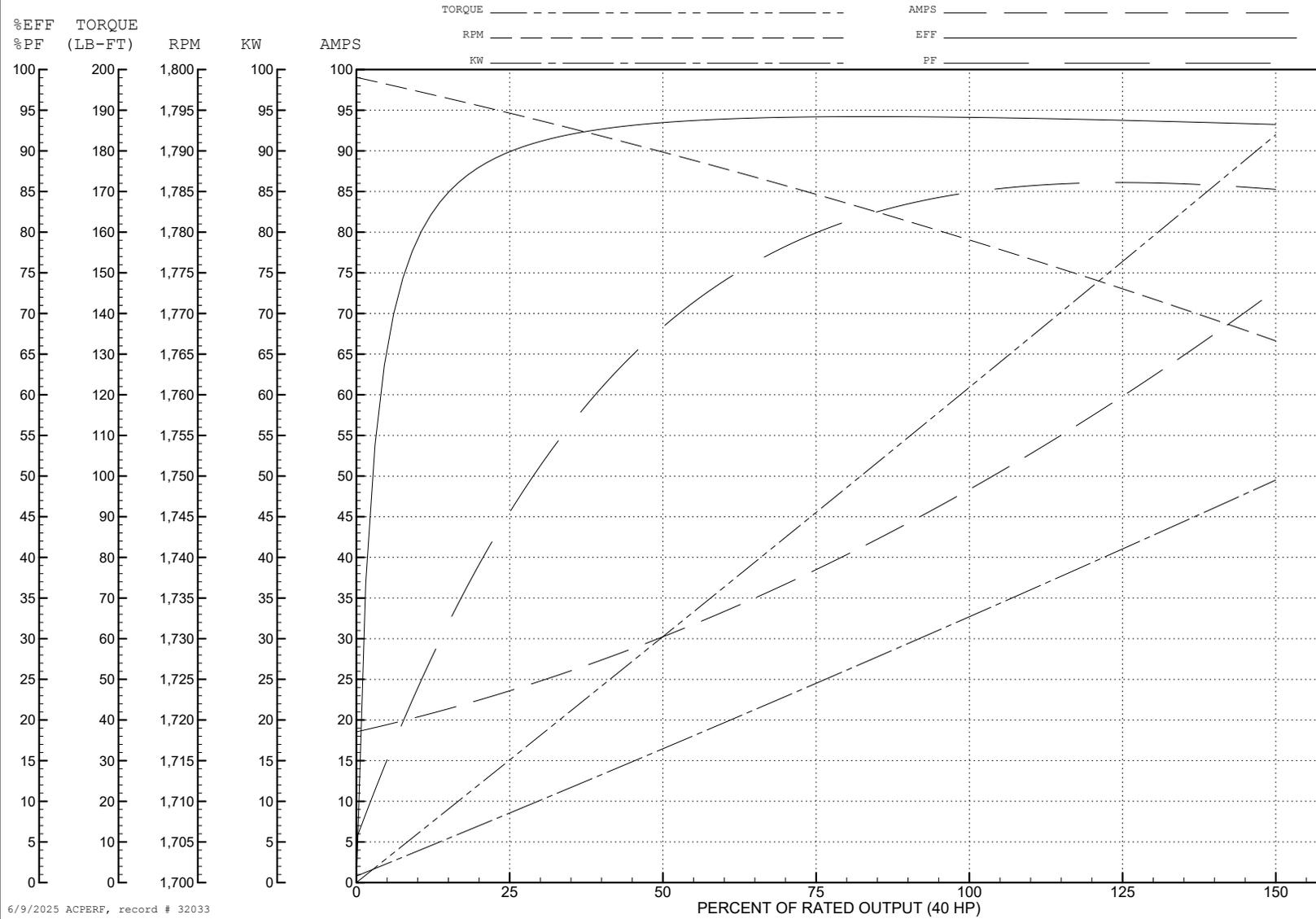
ABB Motors and Mechanical Inc.

WINDING # 12WGY339

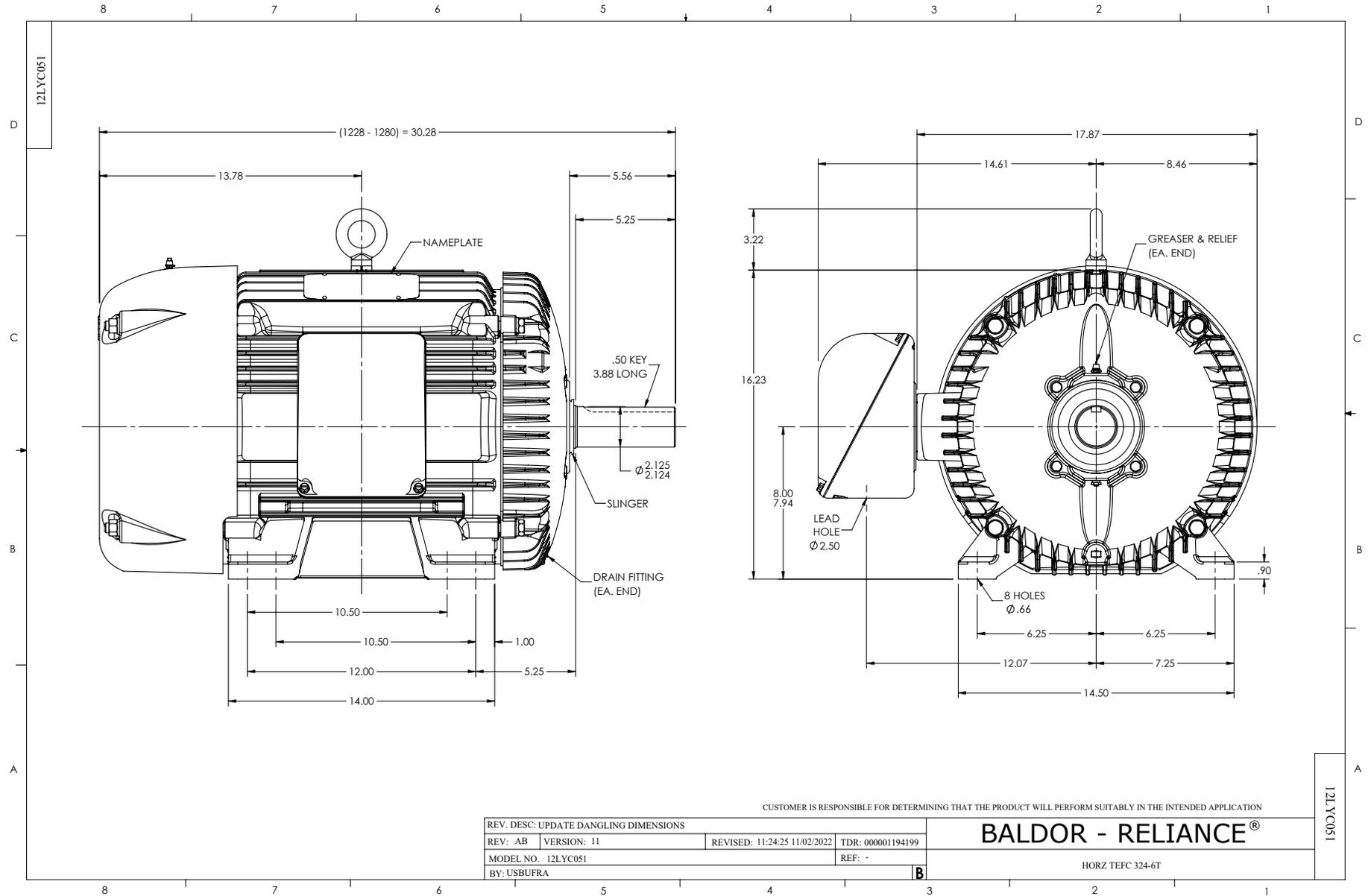
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1770 RPM 460 V 1260M

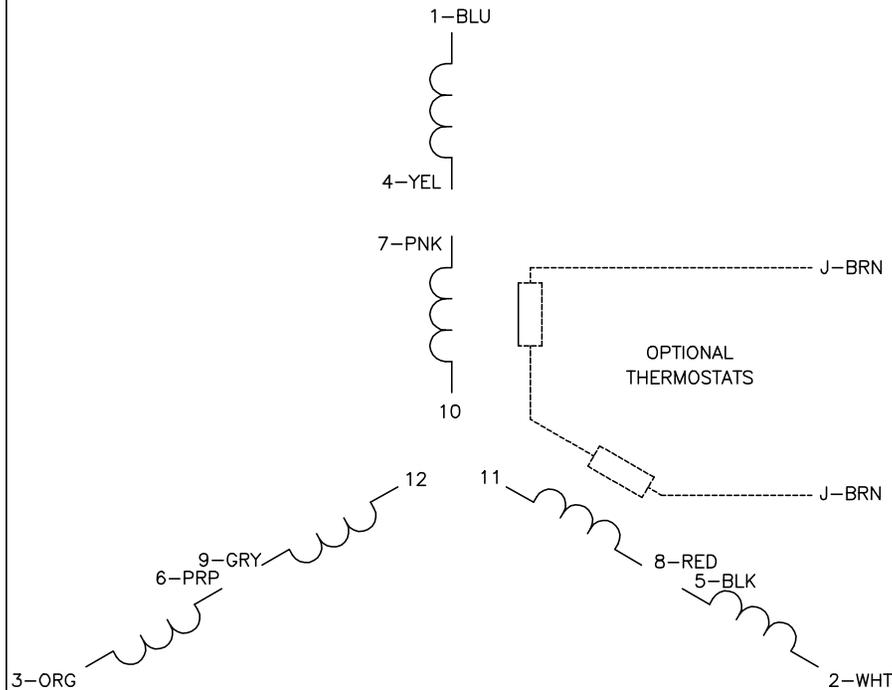
TORQUES (LB-FT): PO=430 PU=210 LR=199 LRA=349



6/9/2025 ACPERF, record # 32033

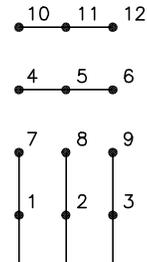


CD0104

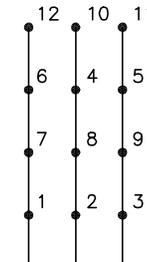


LOW VOLTAGE

START (2Y)

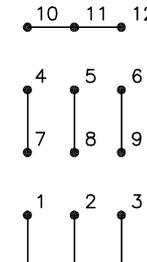


RUN (2D)

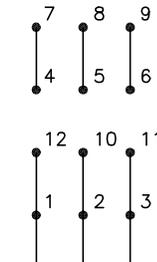


HIGH VOLTAGE

START (1Y)



RUN (1D)



LINE

LINE

LINE

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.

CD0104

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 12 LEADS, Y START/D RUN

SH 1 of 1