

BALDOR • RELIANCE

Customer information packet

ECP84110T-5

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

Class - CLI GP A,B,C,D

Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.

12/4/2024 6:57:59 AM

Specifications

Enclosure	TEFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US 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
Constant Torque Speed Range	1
Current @ Voltage	37.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGZ151
Layout	12LYG135
Eff. date	07-19-2023
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	12-12-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	37.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.74 IN
Power Factor	86
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4332

STK.NO.	ECP84110T-5	P/N		ENCLOSURE	TEFC
SPEC.	12-0000-0371	CC	010A	FRAME	324T
HP	40	CLASS	F	HZ	60
RPM	1770	RPM MAX	2700	PH	3
VOLT	575	KVA-CODE	F	ODE BRG	6312
AMP	37	MOTOR WEIGHT	635	DE BRG	6312
RATING	40C AMB-CONT	MAX. KVAR	8.3	D.E. BRG.	60BC03X30X
NEMA-NOM-EFF	94.1	# OF ROTOR BARS	40	O.D.E. BRG.	60BC03X30X
G.MIN.EFF	93	# OF STATOR SLOTS	48	BLANK	
TEMP CODE	T3	PF	86	INV.TYPE	PWM
TEMP =	200	SER.F.	1.15	IP	56
CT HZ FROM	1	INVERTER-TEMP-CODE	200	C HP FR	60
HTR-VOLTS		C HP TO	90	CT HZ TO	60
HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.	
HTR-VOLTS		HTR-AMPS		VT HZ FROM	0
HTR-WATTS		HTR-AMPS		VT HZ TO	60

AC Induction Motor Performance Data

Record # 93185

Typical performance - not guaranteed values

Winding: 12WGZ151-R002		Type: 1260M	Enclosure: TEFC
Nameplate Data		575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	40	Full Load Torque	119 LB-FT
Volts	575	Start Configuration	direct on line
Full Load Amps	37	Breakdown Torque	336 LB-FT
R.P.M.	1770	Pull-up Torque	149 LB-FT
Hz	60 Phase	Locked-rotor Torque	211 LB-FT
NEMA Design Code	B KVA Code	Starting Current	232 A
Service Factor (S.F.)	1.15	No-load Current	12.01 A
NEMA Nom. Eff.	94.1 Power Factor	Line-line Res. @ 25°C	0.248 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	63°C
S.F. Amps		Temp. Rise @ S.F. Load	78°C
		Locked-rotor Power Factor	26.4
		Rotor inertia	7.99 lb-ft ²

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	83	86	87	86	87
Efficiency	92	94.6	94.8	94.1	93.5	92.7	94
Speed	1794	1787	1780	1773	1765	1756	1768
Line amperes	14.9	20.82	28.54	36.7	45.83	56.11	42.2

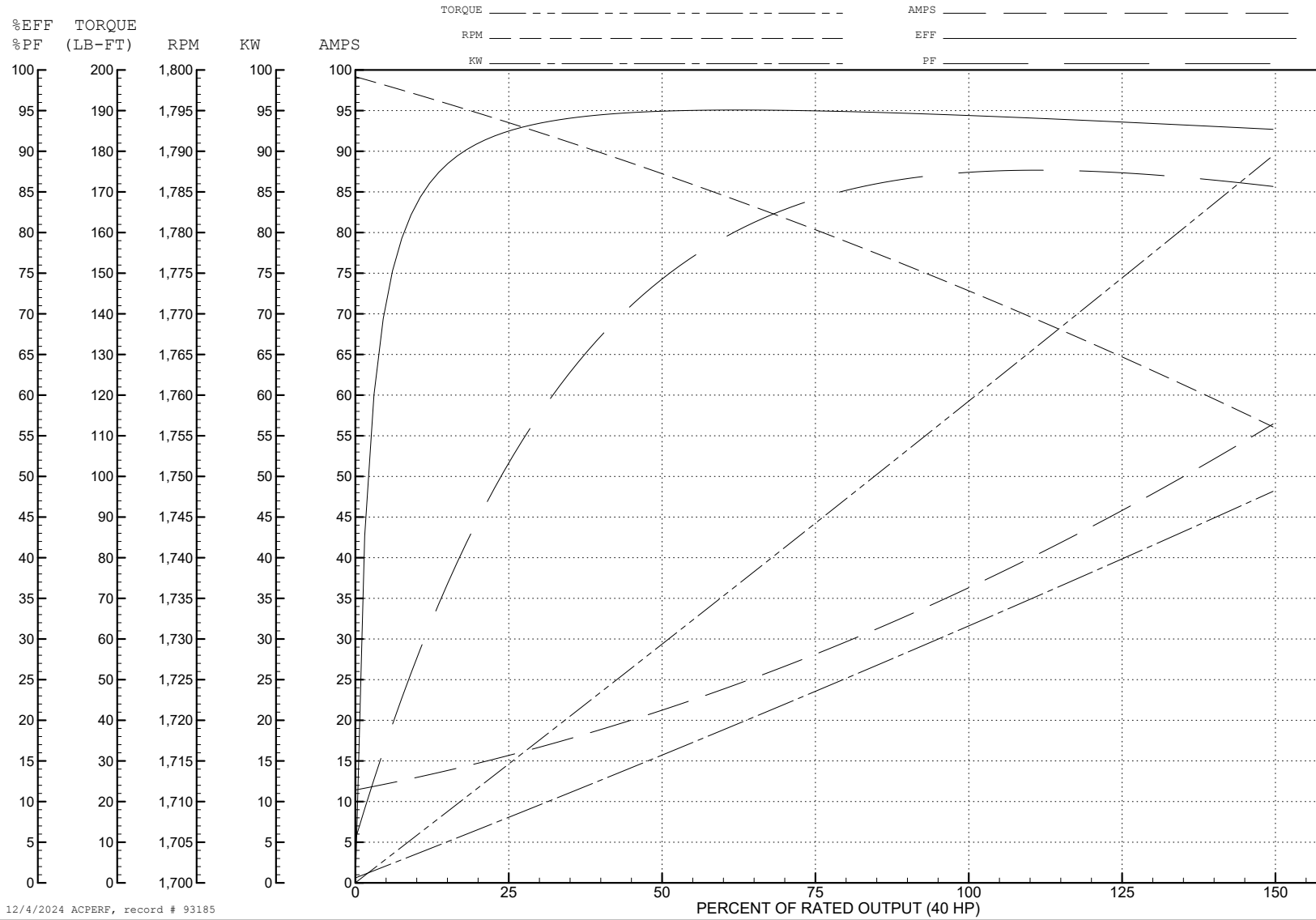
ABB Motors and Mechanical Inc.

WINDING # 12WGZ151

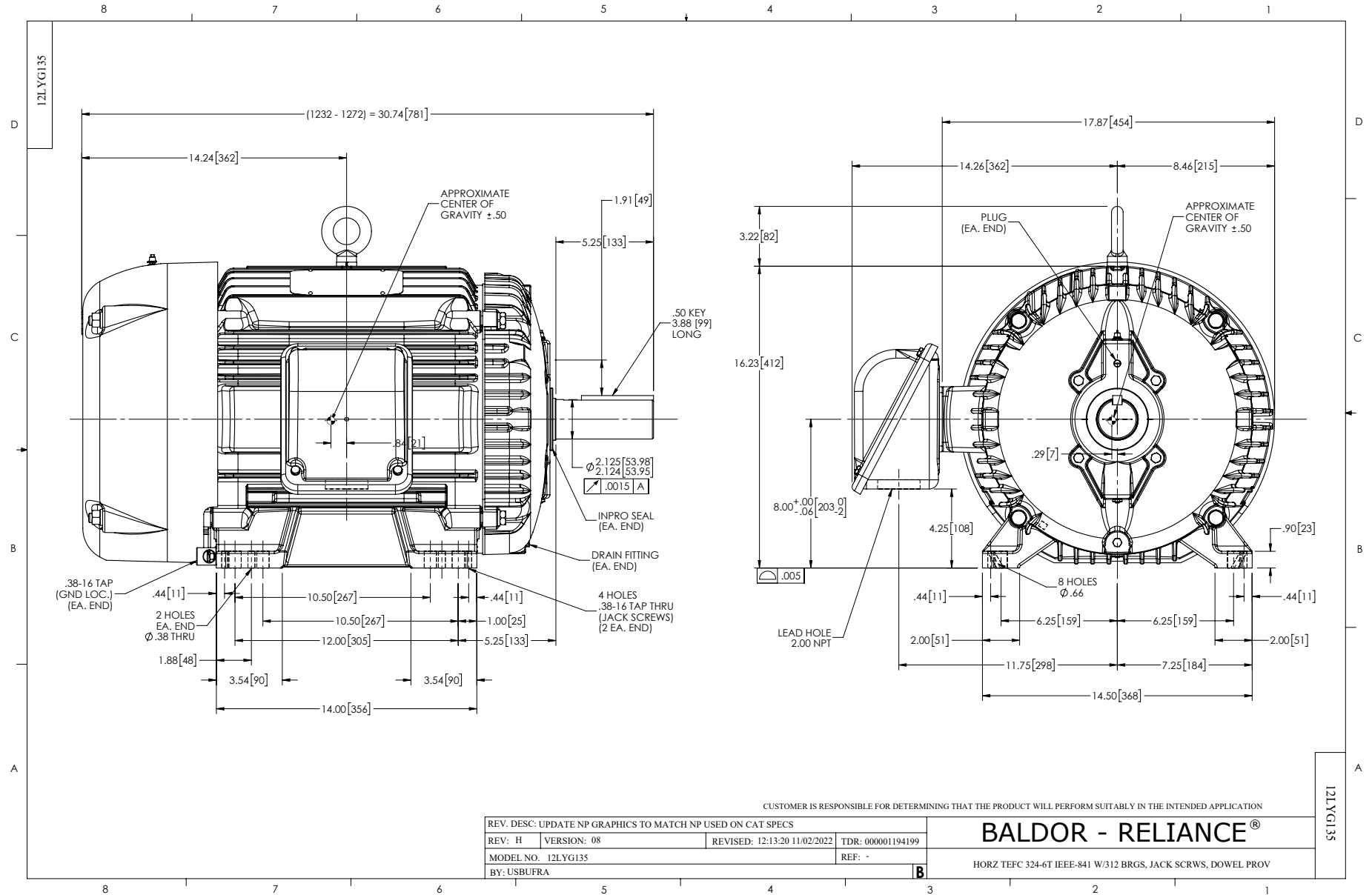
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1770 RPM 575 V 1260M

TORQUES (LB-FT): PO=336 PU=149 LR=211 LRA=232



12/4/2024 ACPERF, record # 93185



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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: -	© □	

BALDOR - RELIANCE®

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

SH 1 of 1