

ABB BALDOR RELIANCE III

Customer information packet

ECP4124T-4

25HP, 880RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	326T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	38.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3

Part Detail

Revision	F
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGZ326
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	08
Leads	3#10
Proprietary	False
Created date	04-18-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	30.66 IN
Power Factor	67
Product Family	Super-E Chemical Processing
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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

NP3241																		
CAT.NO.	ECP4124T-4			P/N						ENCLOSURE		TEFC						
SPEC.	12F904Z326		CC	010A	FRAME	326T		S/N										
HP	25			CLASS	F	HZ	60	DES	B									
RPM	880			RPM MAX		1350		PH	3	KVA-CODE		G						
VOLT	460			MOTOR WEIGHT			700											
AMP	38			SER.F.	1.15	PF	67	ODE BRG		6312	DE BRG		6312					
RATING	40C AMB-CONT			NEMA-NOM-EFF			90.2		GREASE		POLYREX EM							
								INV.TYPE		PWM								
TEMP CODE	T3	INVERTER-TEMP-CODE			200													
TEMP =	200	C HP FR	60	C HP TO		90												
CT HZ FROM	6	CT HZ TO		60														
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.					VT HZ FROM		3	VT HZ TO		60

AC Induction Motor Performance Data

Record # 95266

Typical performance - not guaranteed values

Winding: 12WGZ326-R001			Type: 1272M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		25	Full Load Torque		149 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		38	Breakdown Torque		352 LB-FT	
R.P.M.		880	Pull-up Torque		183 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	210 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	180 A	
Service Factor (S.F.)		1.15	No-load Current		22.59 A	
NEMA Nom. Eff.	90.2	Power Factor	67	Line-line Res. @ 25°C	0.263 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		59°C	
S.F. Amps			Temp. Rise @ S.F. Load		72°C	
			Locked-rotor Power Factor		32.8	
			Rotor inertia		9.59 lb-ft²	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	48	60	67	71	72	69
Efficiency	86	90.6	91.4	91	90.2	88.4	90.5
Speed	895	890	885	879	873	865	875
Line amperes	23.64	26.97	31.98	38.33	45.98	55.16	42.9

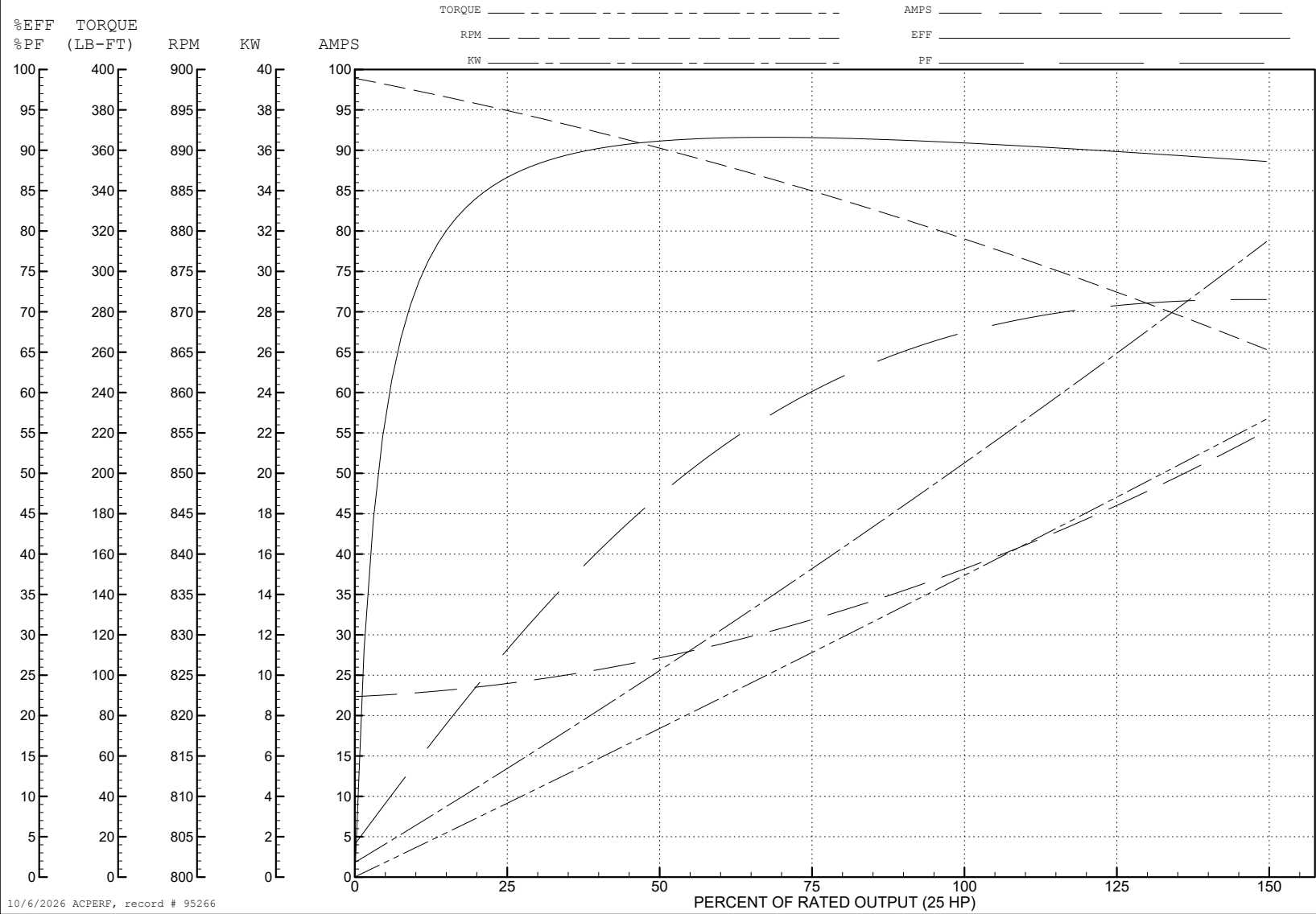
ABB Motors and Mechanical Inc.

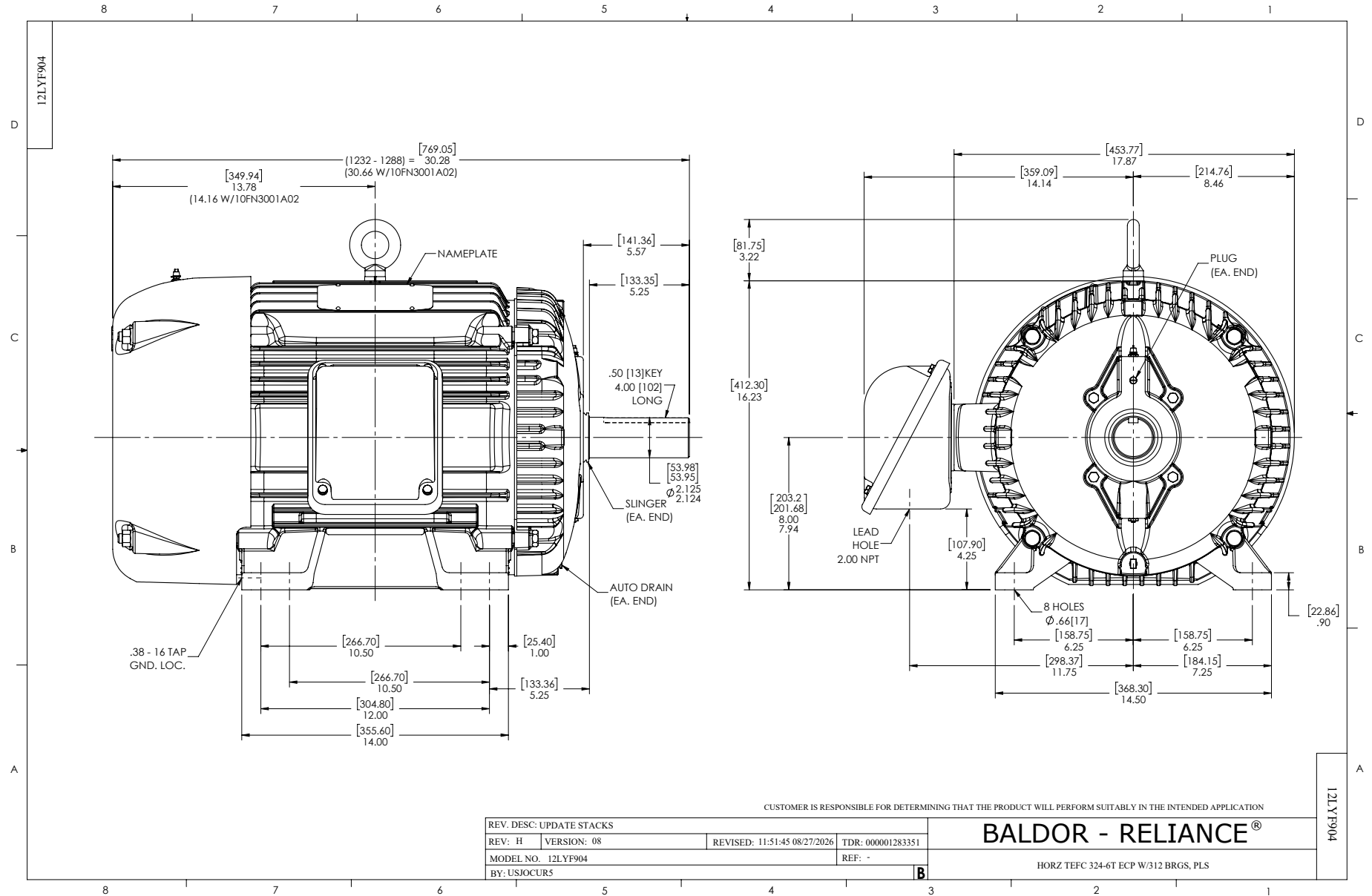
WINDING # 12WGZ326

Typical performance - not guaranteed values.

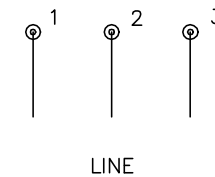
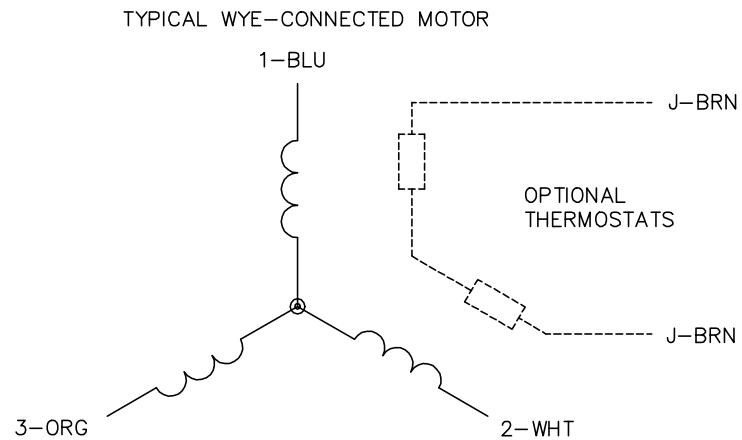
25 HP 3 PH 60 HZ 880 RPM 460 V 1272M

TORQUES (LB-FT): PO=352 PU=183 LR=210 LRA=180





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

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