

ABB BALDOR RELIANCE III

Customer information packet

ECP4115T-4

50HP, 1775RPM, 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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	0.8
Current @ Voltage	58.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AD
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGY586
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	04
Leads	3#6
Proprietary	False
Created date	06-29-2012

Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	85
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 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
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241																	
CAT.NO.	ECP4115T-4			P/N						ENCLOSURE		TEFC					
SPEC.	12F904Y586		CC	010A	FRAME	326T		S/N									
HP	50			CLASS	F	HZ	60	DES	A								
RPM	1775			RPM MAX		2700		PH	3	KVA-CODE		H					
VOLT	460			MOTOR WEIGHT			668										
AMP	58			SER.F.	1.15	PF	85	ODE BRG		6312	DE BRG		6312				
RATING	40C AMB-CONT			NEMA-NOM-EFF			94.5		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	0.8	CT HZ TO		60													
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.					VT HZ FROM		O	VT HZ TO	60

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 47187

Typical performance - not guaranteed values

Winding: 12WGY586-R016			Type: 1272M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		50	Full Load Torque		147 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		58	Breakdown Torque		396 LB-FT			
R.P.M.		1775	Pull-up Torque		183 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		254 LB-FT		
NEMA Design Code		A	KVA Code	H	Starting Current		397 A	
Service Factor (S.F.)		1.15	No-load Current		19.8 A			
NEMA Nom. Eff.		94.5	Power Factor		85	Line-line Res. @ 25°C		0.10889 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C		
S.F. Amps				Temp. Rise @ S.F. Load		79°C		
				Rotor inertia		9.59 LB-FT2		

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	83	86	87	87	87
Efficiency	91.3	94.3	94.8	94.6	94	93.1	94.2
Speed	1794.5	1789.3	1783.5	1777.5	1770.7	1761.5	1773
Line amperes	24.2	33.5	44.7	57.6	71.5	90	65.9

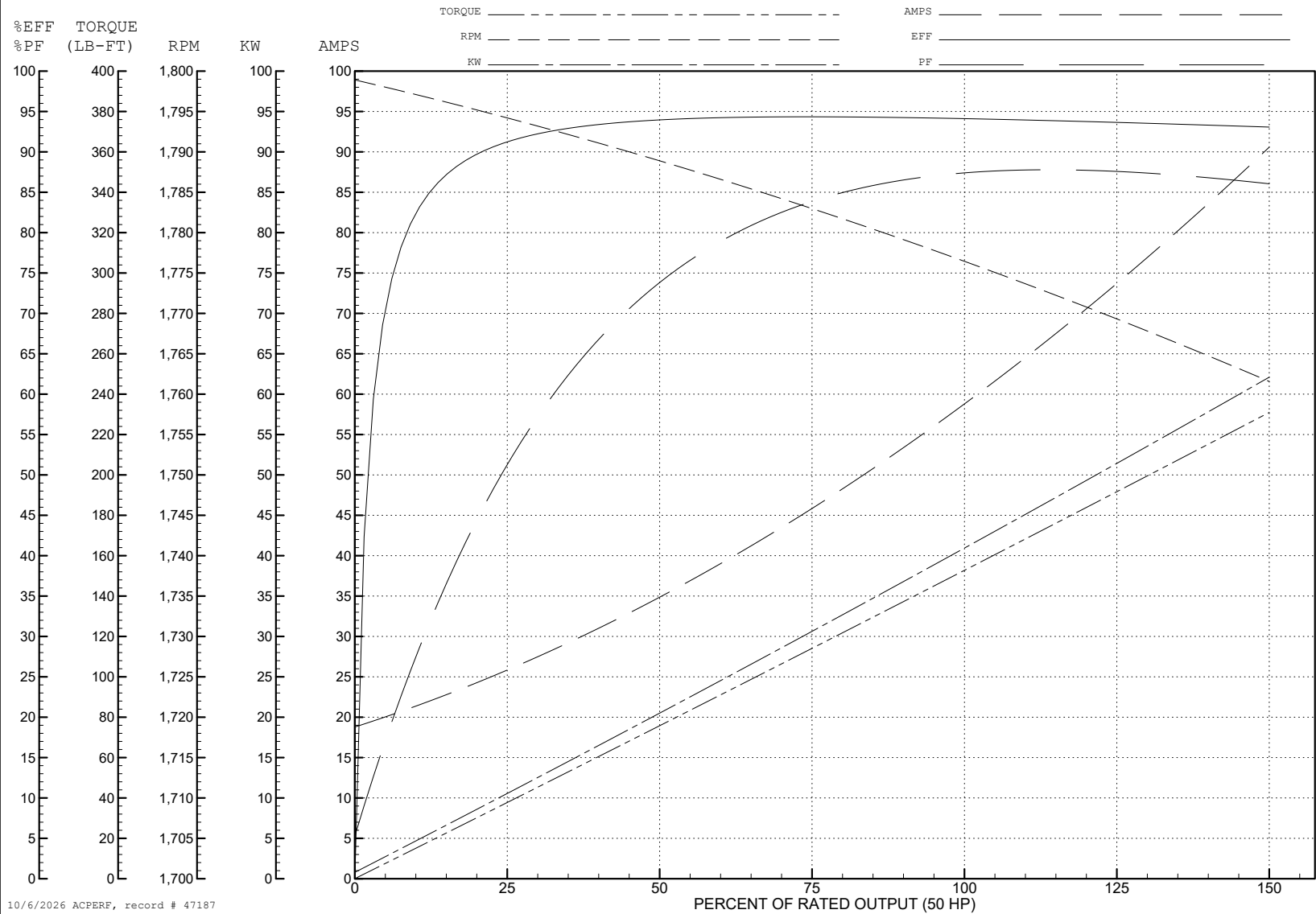
ABB Motors and Mechanical Inc.

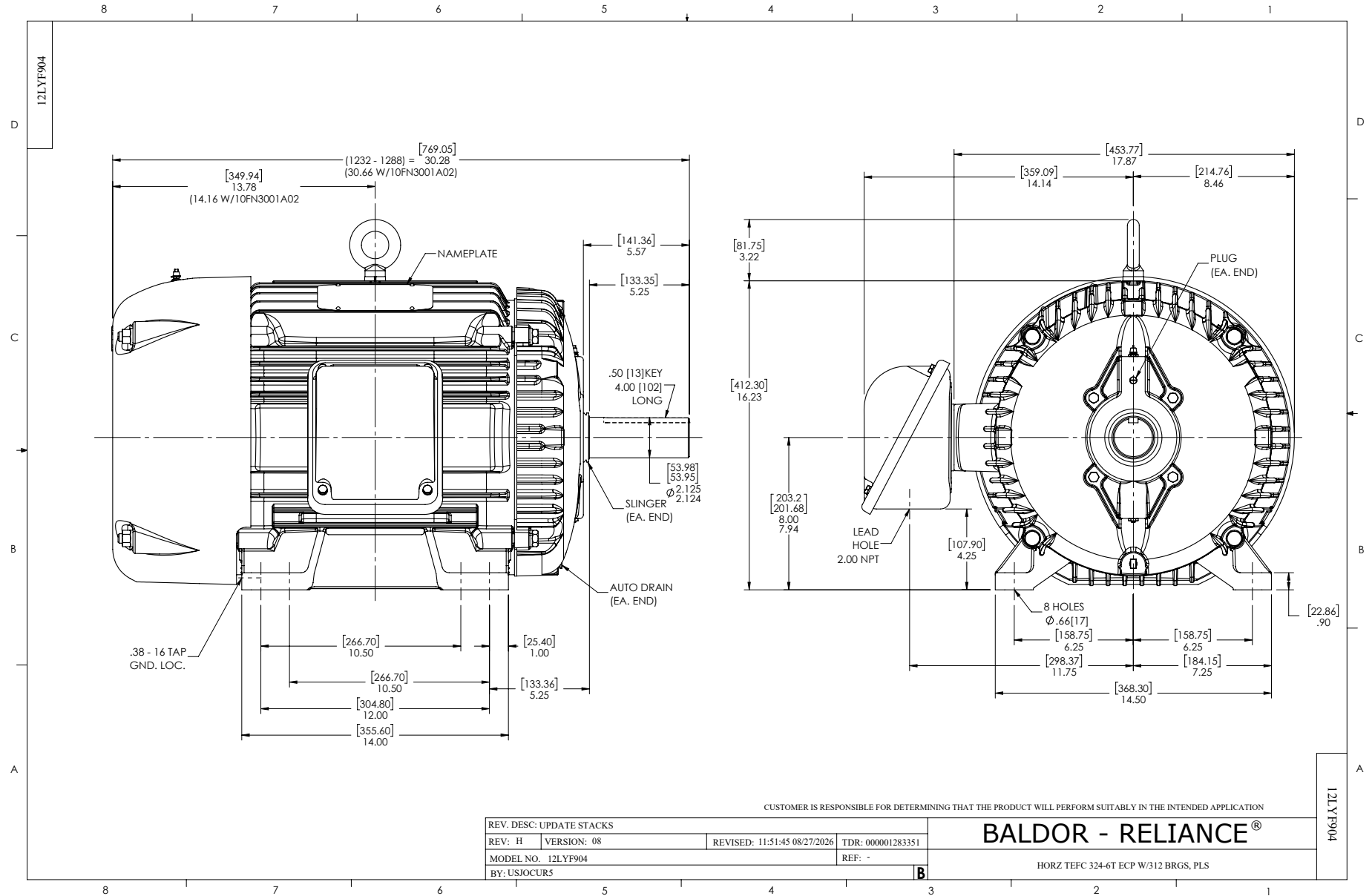
WINDING # 12WGY586

Typical performance - not guaranteed values.

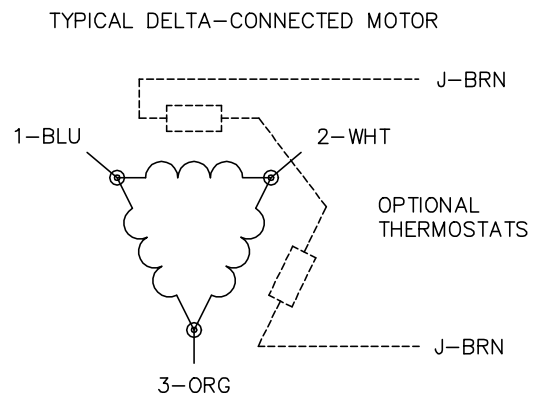
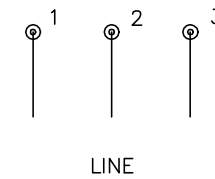
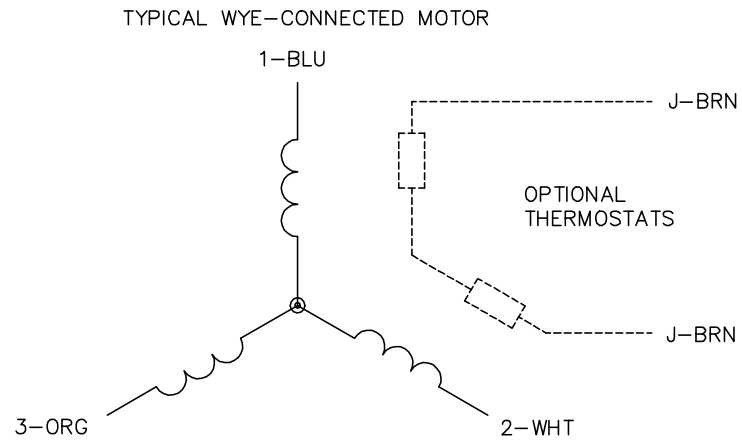
50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=396 PU=183 LR=254 LRA=397





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