ABB BALDOR RELIANCE

Customer information packet

ECP4115T-4

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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. @ 25ºC**	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

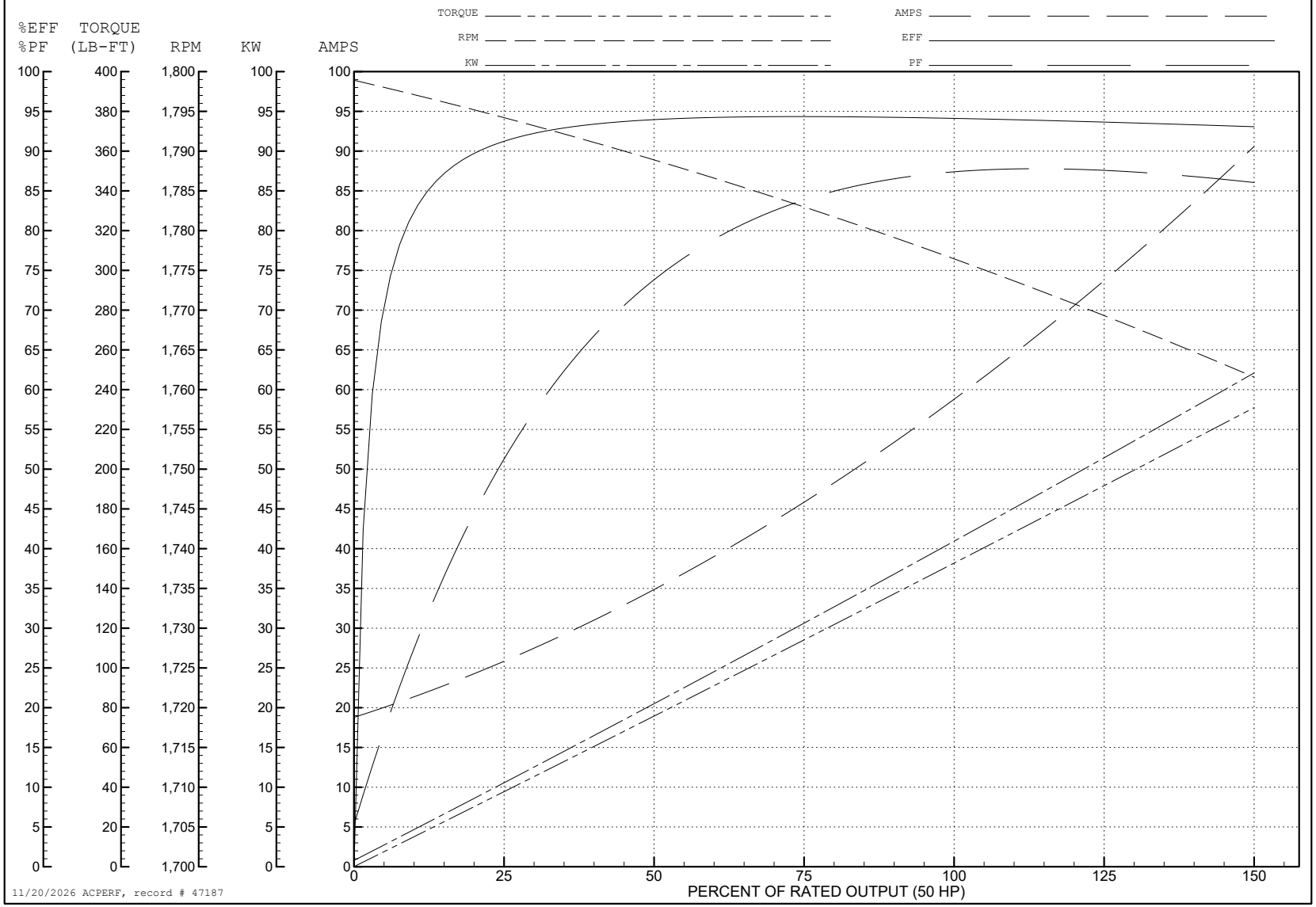
ABB Motors and Mechanical Inc.

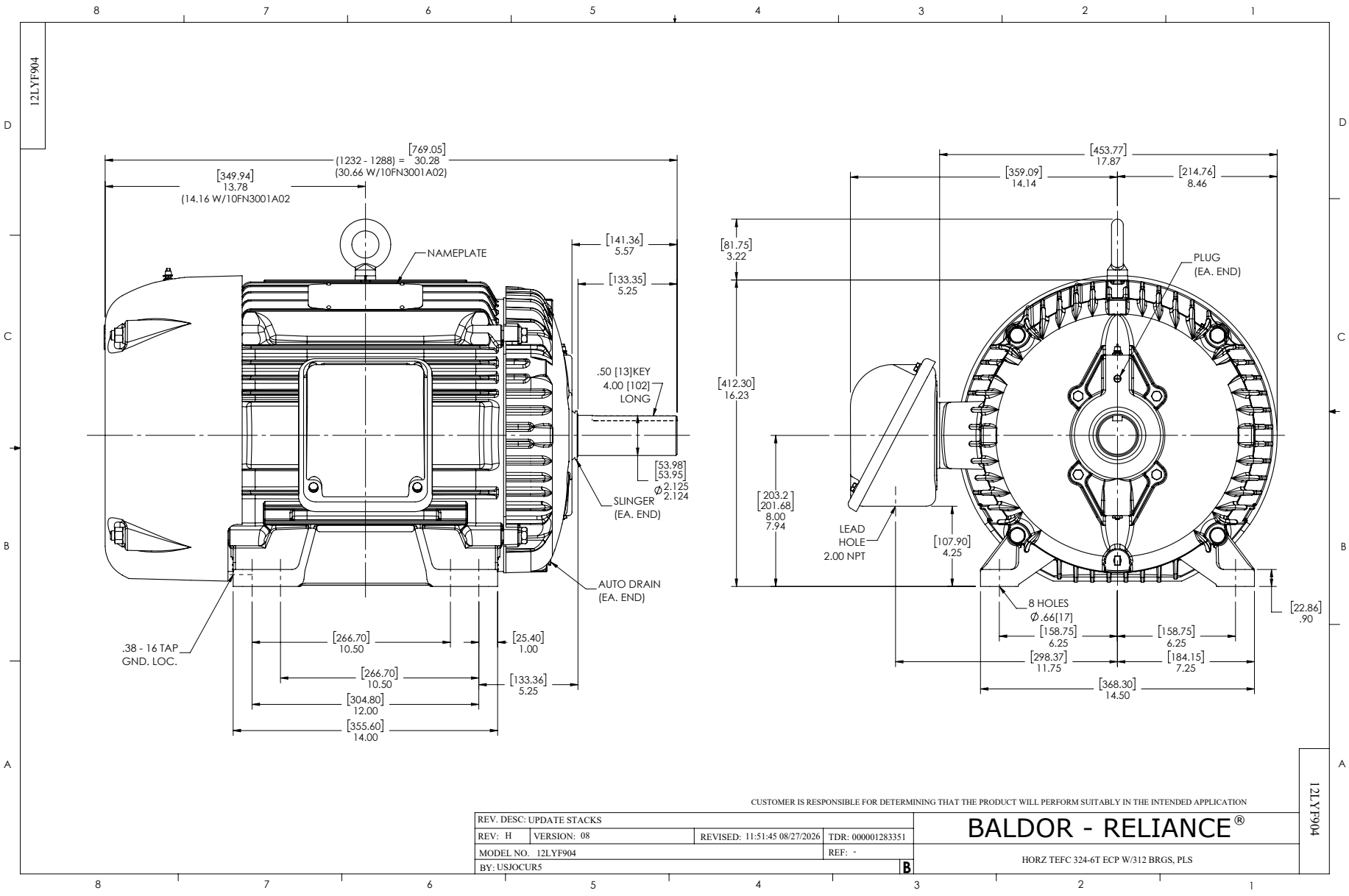
WINDING # 12WGY586

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

Typical performance - not guaranteed values.

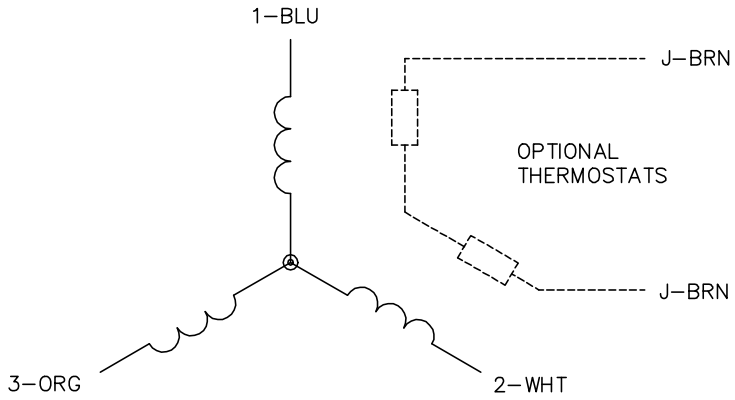
TORQUES(LB-FT): PO=396 PU=183 LR=254 LRA=397

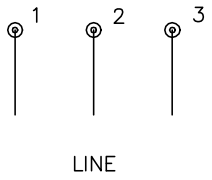



12LYF904
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(1232 - 1288) = 30.28
(30.66 W/10FN3001A02)
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13.78
(14.16 W/10FN3001A02
NAMEPLATE
[141.36]
5.57
[133.35]
5.25
.50 [13]KEY
4.00 [102]
LONG
[53.98]
[53.95]
Ø 2.125
Ø 2.124
SLINGER
(EA. END)
AUTO DRAIN
(EA. END)
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GND. LOC.
[266.70]
10.50
[25.40]
1.00
[266.70]
10.50
[133.36]
5.25
[304.80]
12.00
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14.00
[453.77]
17.87
[359.09]
14.14
[214.76]
8.46
[81.75]
3.22
PLUG
(EA. END)
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16.23
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[201.68]
8.00
7.94
LEAD
HOLE
2.00 NPT
[107.90]
4.25
[22.86]
.90
8 HOLES
Ø .66[17]
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6.25
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6.25
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11.75
[184.15]
7.25
[368.30]
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE STACKS
REV: H
VERSION: 08
REVISED: 11:51:45 08/27/2026
TDR: 000001283351
MODEL NO. 12LYF904
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ TEFC 324-6T ECP W/312 BRGS, PLS
12LYF904

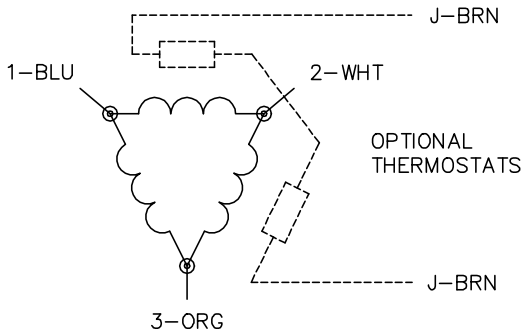
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1