ABB BALDOR RELIANCE

Customer information packet

ECP4110T-4

40HP, 1775RPM, 3PH, 60HZ, 324T, 1254M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

7/8/2026 8:17:34 PM

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	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	48.000 A @ 460.0 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 Shaft Indicator	None
Haz Area Temp Code	T3

Part Detail

Revision	J
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGY399
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	05-29-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 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 Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	82
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	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.	ECP4110T-4	**P/N**				**ENCLOSURE**	TEFC						
SPEC.	12F904Y399G6	**CC**	010A	**FRAME**	324T			**S/N**					
HP	40	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	1775	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	H						
VOLT	460	**MOTOR WEIGHT**	595										
AMP	48	**SER.F.**	1.15	**PF**	82	**ODE BRG**	6312	**DE BRG**	6312				
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	94.1	**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
12-1105ECP	C FACE KIT (C-FACE SWAP FOR ECP MOTOR)	A8

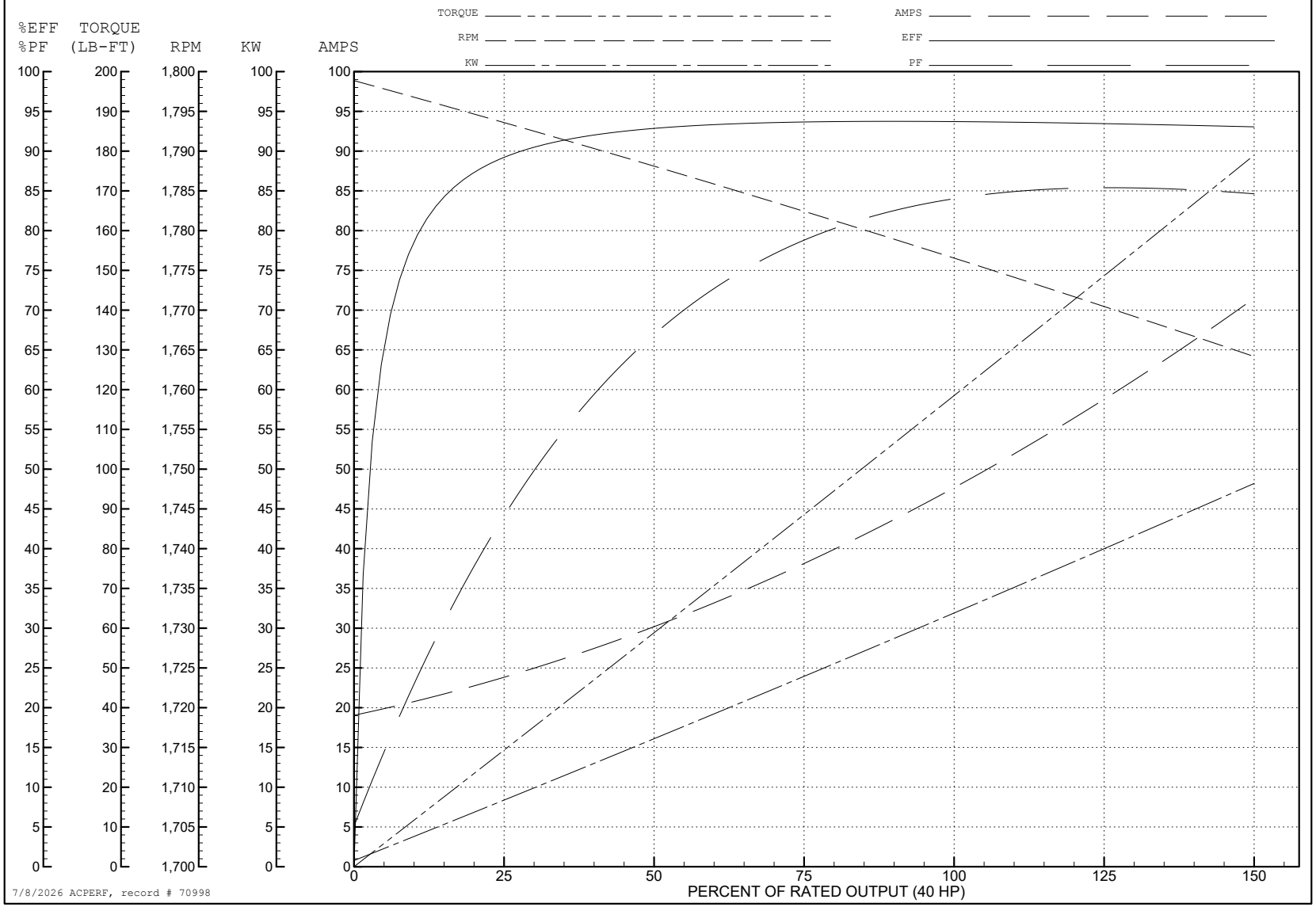
ABB Motors and Mechanical Inc.

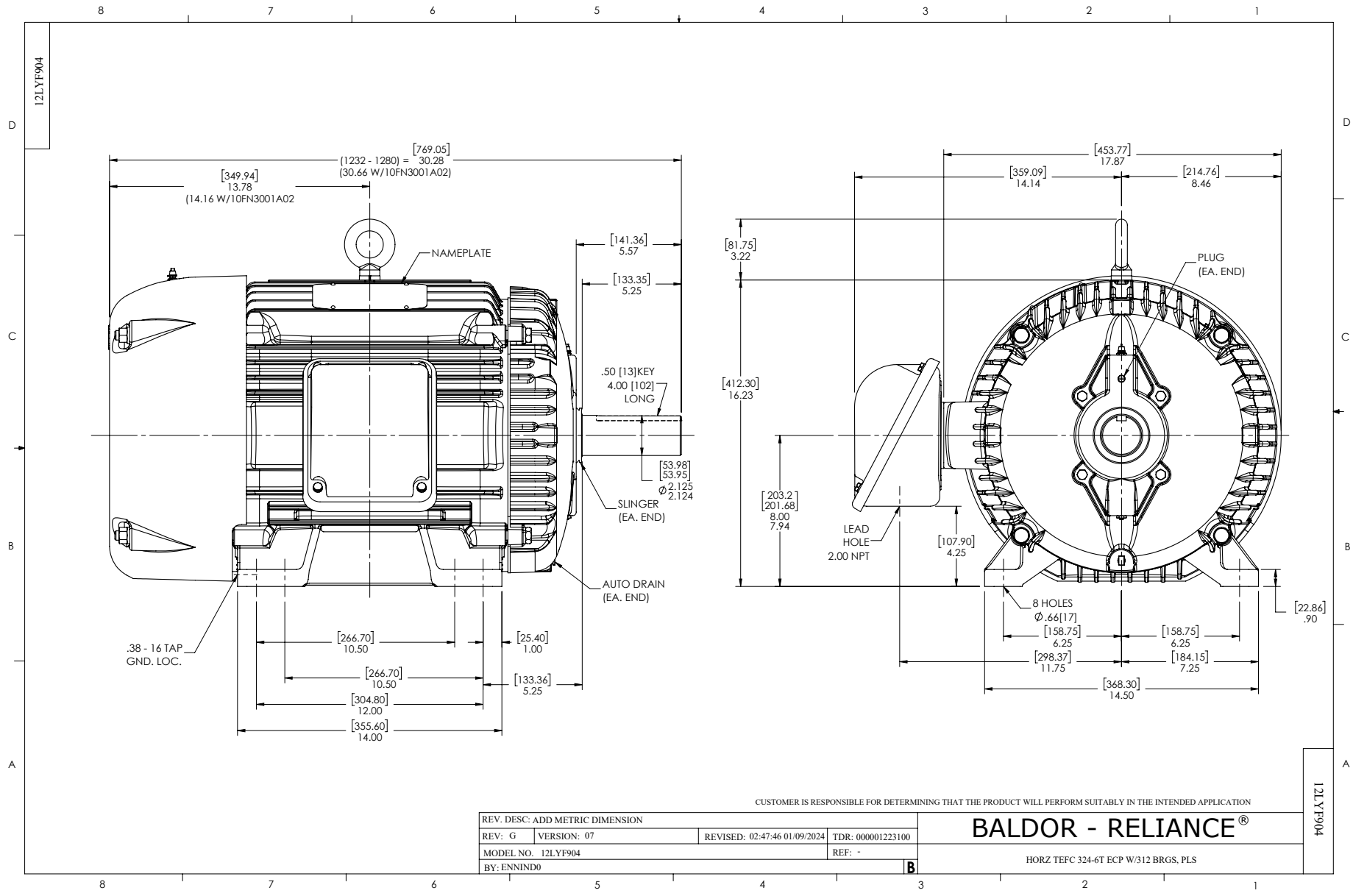
WINDING # 12WGY399

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=386 PU=193 LR=216 LRA=338




12LYF904
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(1232 - 1280) = 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)
.38 - 16 TAP
GND. LOC.
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10.50
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1.00
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10.50
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5.25
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14.00
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14.14
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8.46
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3.22
PLUG
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16.23
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[201.68]
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7.94
LEAD
HOLE
2.00 NPT
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4.25
[22.86]
.90
8 HOLES
Ø .66[17]
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6.25
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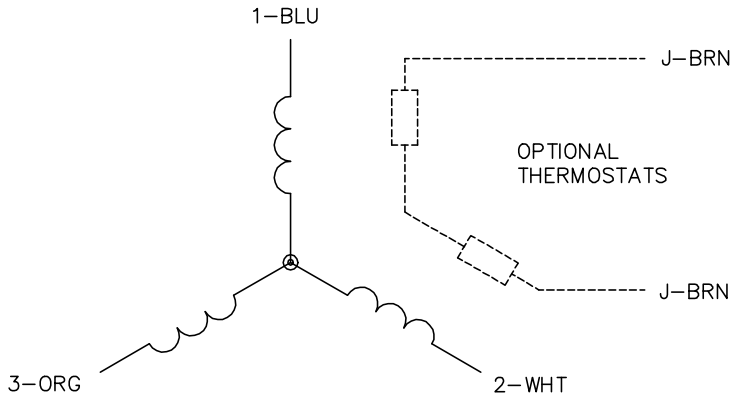
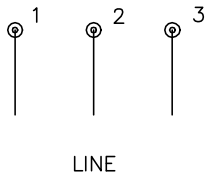
11.75
[184.15]
7.25
[368.30]
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMENSION
REV: G
VERSION: 07
REVISED: 02:47:46 01/09/2024
TDR: 000001223100
MODEL NO. 12LYF904
REF: -
BY: ENNIND0
B
BALDOR - RELIANCE®
HORZ TEFC 324-6T ECP W/312 BRGS, PLS
12LYF904

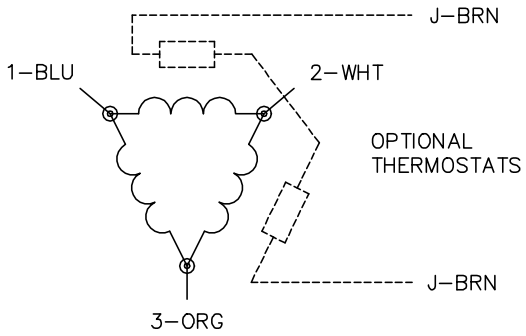
CD0006

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