ABB BALDOR RELIANCE

Customer information packet

ECP4117T-4

30HP, 1180RPM, 3PH, 60HZ, 326T, 1264M, 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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	1.0
Current @ Voltage	39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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.	12WGY453
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	06
Leads	3#8
Proprietary	False
Created date	01-07-2012

Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	78
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	1180 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.	ECP4117T-4			**P/N**				**ENCLOSURE**	TEFC				
SPEC.	12F904Y453	**CC**	010A	**FRAME**	326T			**S/N**					
HP	30			**CLASS**	F	**HZ**	60	**DES**	A				
RPM	1180			**RPM MAX**	1800			**PH**	3	**KVA-CODE**	H		
VOLT	460					**MOTOR WEIGHT**	633						
AMP	39			**SER.F.**	1.15	**PF**	78	**ODE BRG**	6312	**DE BRG**	6312		
RATING	40C AMB-CONT					**NEMA-NOM-EFF**	93	**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	1.0			**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
K32G2	320T7U TEFC U-FRAME C-FACE KIT	A8

AC Induction Motor Performance Data
Record # 47257
Typical performance - not guaranteed values

Winding: 12WGY453-R018	**Type:** 1264M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	133 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			39	**Breakdown Torque**	370 LB-FT
R.P.M.			1180	**Pull-up Torque**	179 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	217 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	245 A
Service Factor (S.F.)			1.15	**No-load Current**	17.2 A
NEMA Nom. Eff.	93	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.222 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	68°C
				Locked-rotor Power Factor	27.6
				Rotor inertia	12.2 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	63	73	78	80	81	79
Efficiency	89	92.7	93.6	92.8	92.2	91.4	92.4
Speed	1197	1192	1188	1183	1178	1172	1180
Line amperes	19.2	24.1	31	38.7	47.5	57.3	44

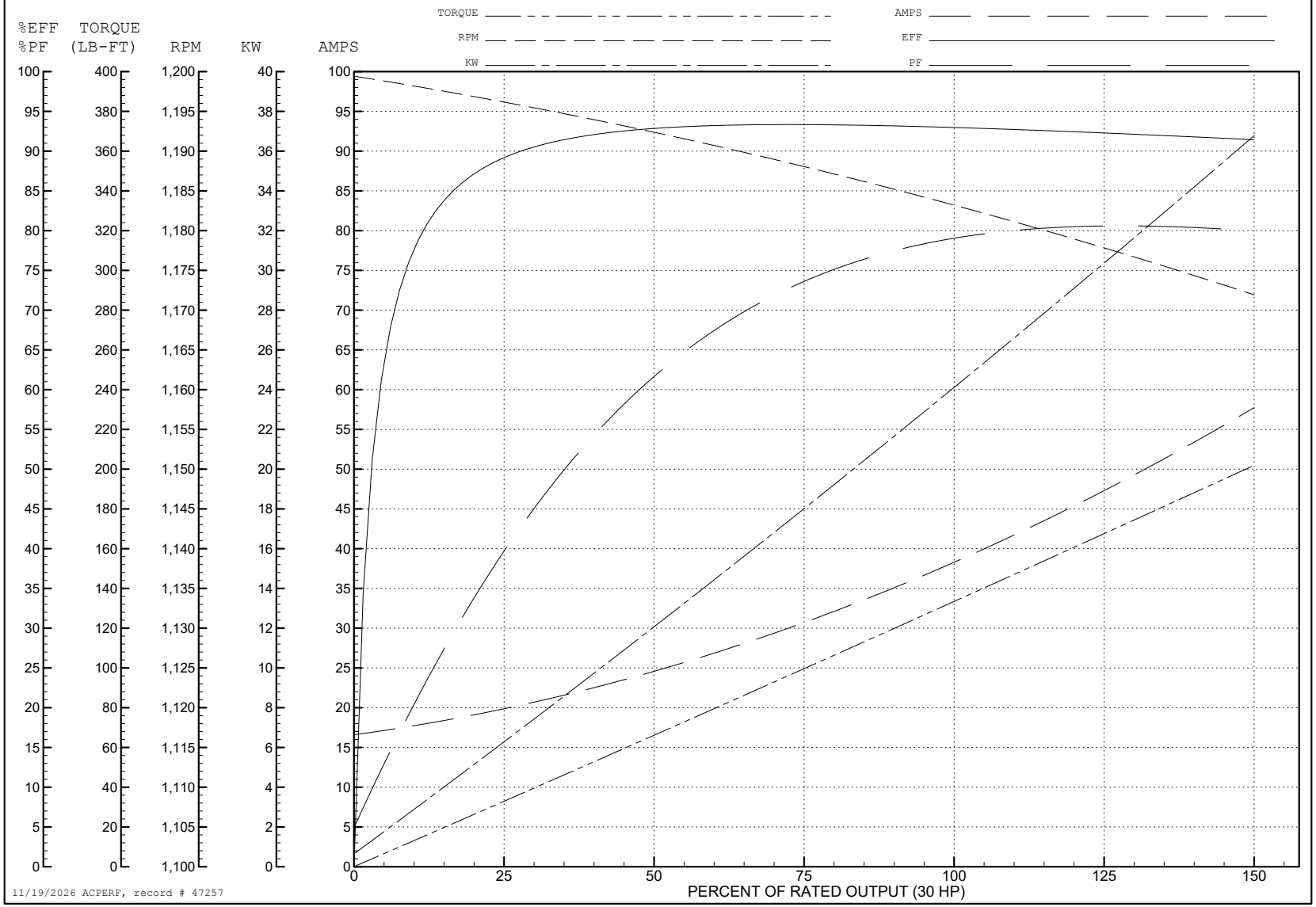
ABB Motors and Mechanical Inc.

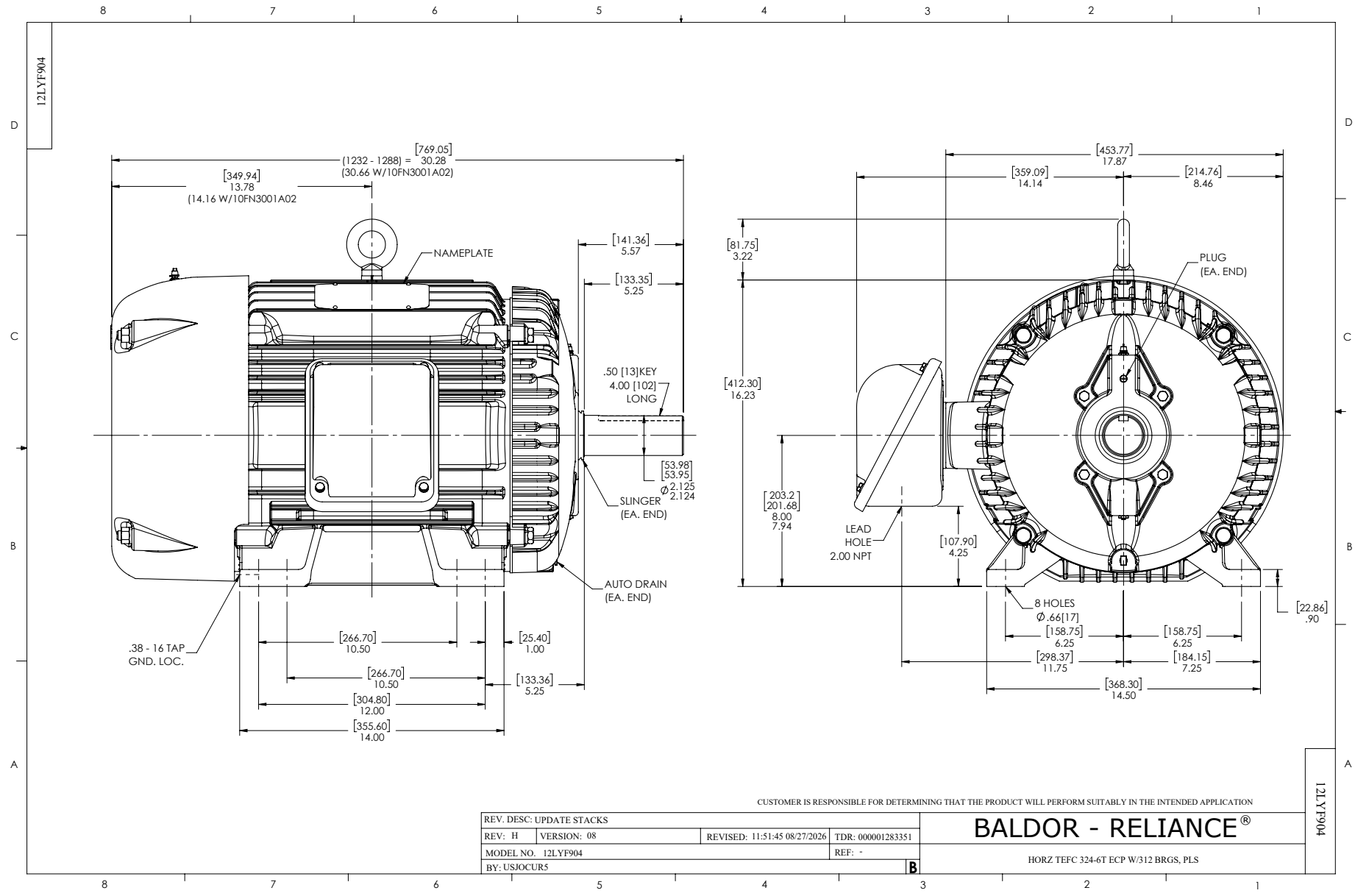
WINDING # 12WGY453

30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M

Typical performance - not guaranteed values.

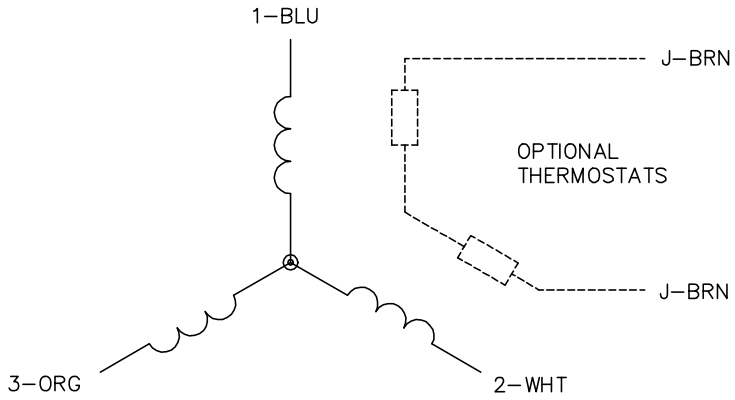
TORQUES(LB-FT): PO=370 PU=179 LR=217 LRA=245

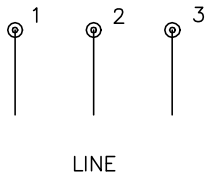



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(30.66 W/10FN3001A02)
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(14.16 W/10FN3001A02
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5.57
[133.35]
5.25
.50 [13]KEY
4.00 [102]
LONG
[53.98]
[53.95]
Ø 2.125
Ø 2.124
SLINGER
(EA. END)
AUTO DRAIN
(EA. END)
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GND. LOC.
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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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3.22
PLUG
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7.94
LEAD
HOLE
2.00 NPT
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4.25
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8 HOLES
Ø .66[17]
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7.25
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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

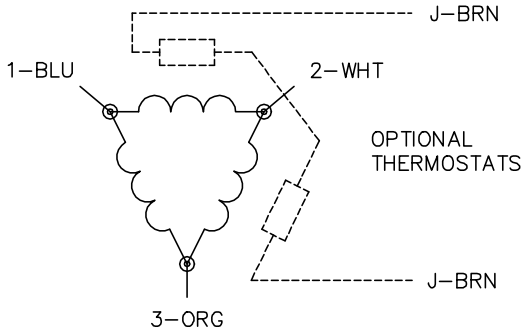
CD0006

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

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