

ABB BALDOR RELIANCE III

Customer information packet

ECP4117T-5

30HP, 1180RPM, 3PH, 60HZ, 326T, 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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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
Current @ Voltage	30.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGZ235
Layout	12LYF904
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	06
Leads	3#10
Proprietary	False
Created date	06-20-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1268M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	80
Product Family	Super-E Chemical Processing
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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-5			P/N						ENCLOSURE		TEFC					
SPEC.	12-0000153		CC	010A	FRAME	326T		S/N									
HP	30			CLASS	F	HZ	60	DES	B								
RPM	1180			RPM MAX		1800		PH	3	KVA-CODE		G					
VOLT	575			MOTOR WEIGHT			634										
AMP	30			SER.F.	1.15	PF	80	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	CT HZ TO		60													
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.				VT HZ FROM		O	VT HZ TO		60

AC Induction Motor Performance Data

Record # 69864

Typical performance - not guaranteed values

Winding: 12WGZ235-R001			Type: 1268M	Enclosure: TEFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		134 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		30	Breakdown Torque		340 LB-FT		
R.P.M.		1180	Pull-up Torque		153 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		188 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		172 A
Service Factor (S.F.)		1.15	No-load Current		11.9 A		
NEMA Nom. Eff.		93	Power Factor	80	Line-line Res. @ 25°C		0.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps				Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		29.2	
				Rotor inertia		13 LB-FT2	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	76	80	82	81	81
Efficiency	90.6	93.5	94	93.4	92.5	91.1	92.9
Speed	1196	1191	1186	1180	1174	1166	1176
Line amperes	13.67	17.93	23.55	29.99	37.27	45.63	34.4

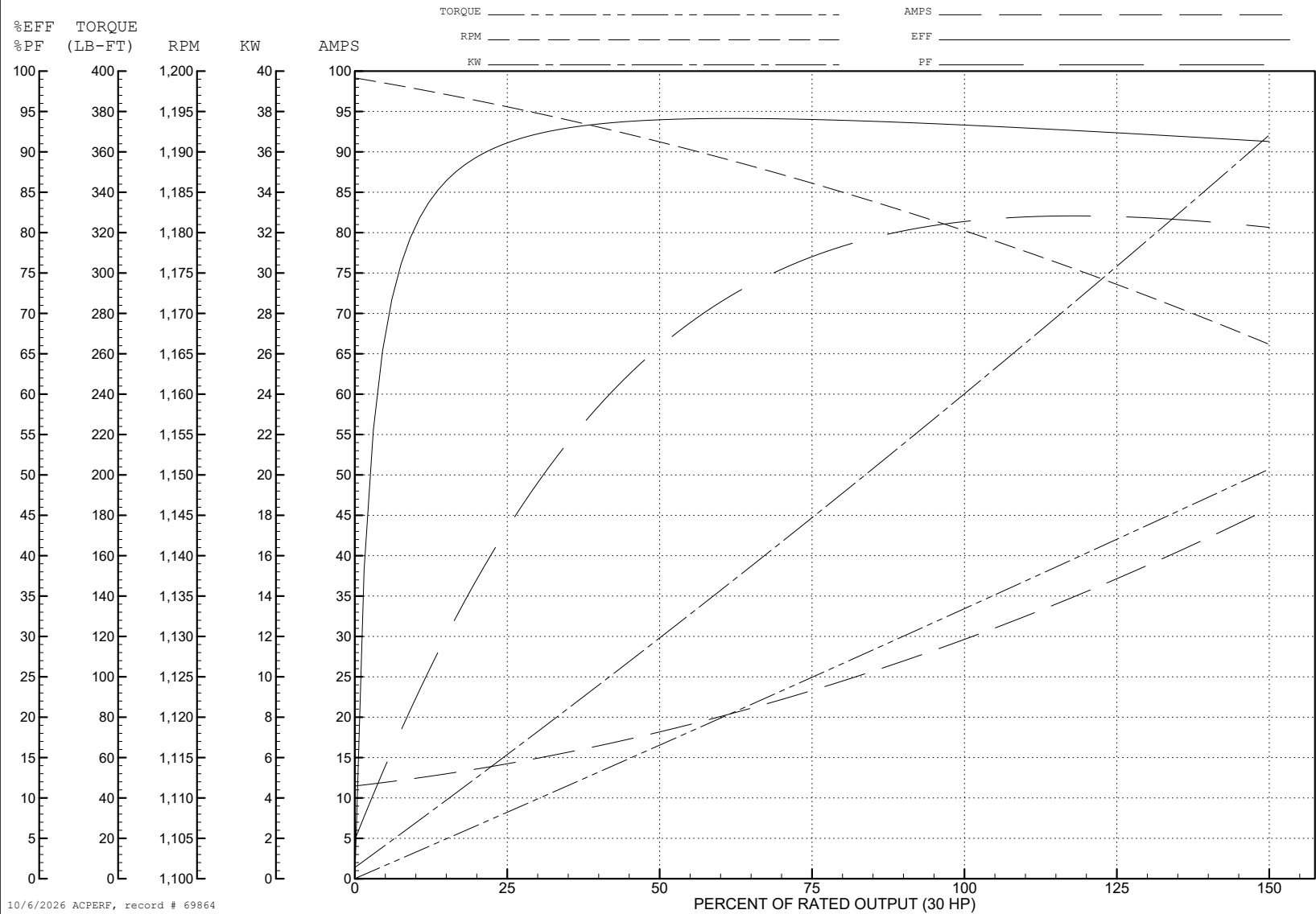
ABB Motors and Mechanical Inc.

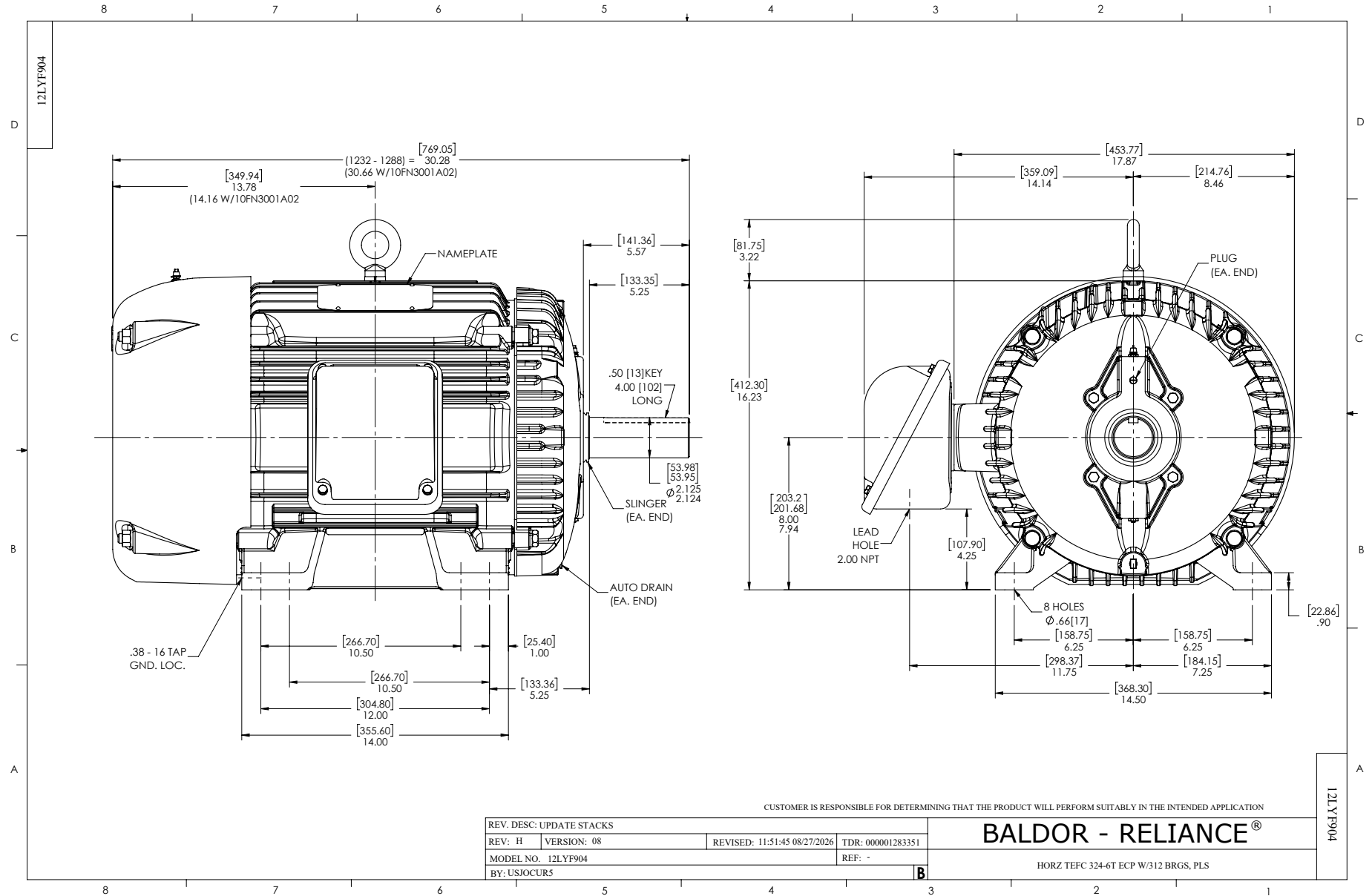
WINDING # 12WGZ235

Typical performance - not guaranteed values.

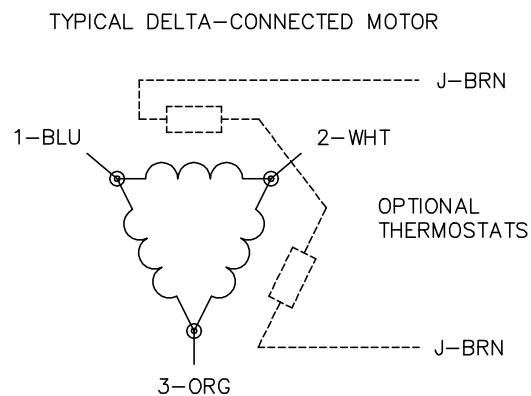
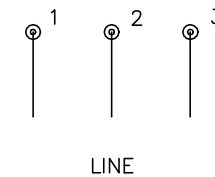
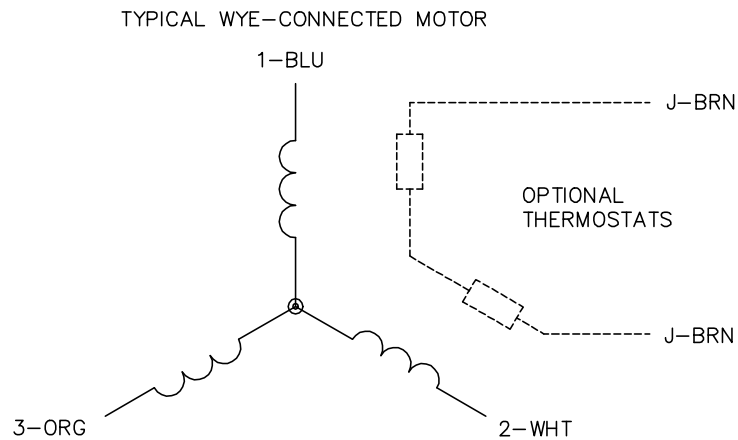
30 HP 3 PH 60 HZ 1180 RPM 575 V 1268M

TORQUES (LB-FT): PO=340 PU=153 LR=188 LRA=172





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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