

ABB BALDOR RELIANCE III

Customer information packet

ECP4111T

25HP, 1180RPM, 3PH, 60HZ, 324T, 1260M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	69.000 A @ 208.0 V 63.000 A @ 230.0 V 32.000 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

Part Detail

Revision	AE
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	01-07-2012

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	32.0 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	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	79
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.	ECP4111T			P/N						ENCLOSURE		TEFC					
SPEC.	12F904Y116		CC	010A	FRAME	324T		S/N									
HP	25			CLASS	F	HZ	60	DES	A								
RPM	1180			RPM MAX		1800		PH	3	KVA-CODE		H					
VOLT	230/460			MOTOR WEIGHT			604										
AMP	63/32			SER.F.	1.15	PF	79	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
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 47247

Typical performance - not guaranteed values

Winding: 12WGY116-R017			Type: 1260M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		111 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		63/32		Breakdown Torque		308 LB-FT	
R.P.M.		1180		Pull-up Torque		117 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		171 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	198 A
Service Factor (S.F.)		1.15		No-load Current		13.8 A	
NEMA Nom. Eff.		93	Power Factor	79		Line-line Res. @ 25°C	0.27033 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps				Temp. Rise @ S.F. Load		56°C	
				Rotor inertia		11.5 LB-FT2	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	75	79	81	81	80
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5	92.8
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9	1181
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1	36.3

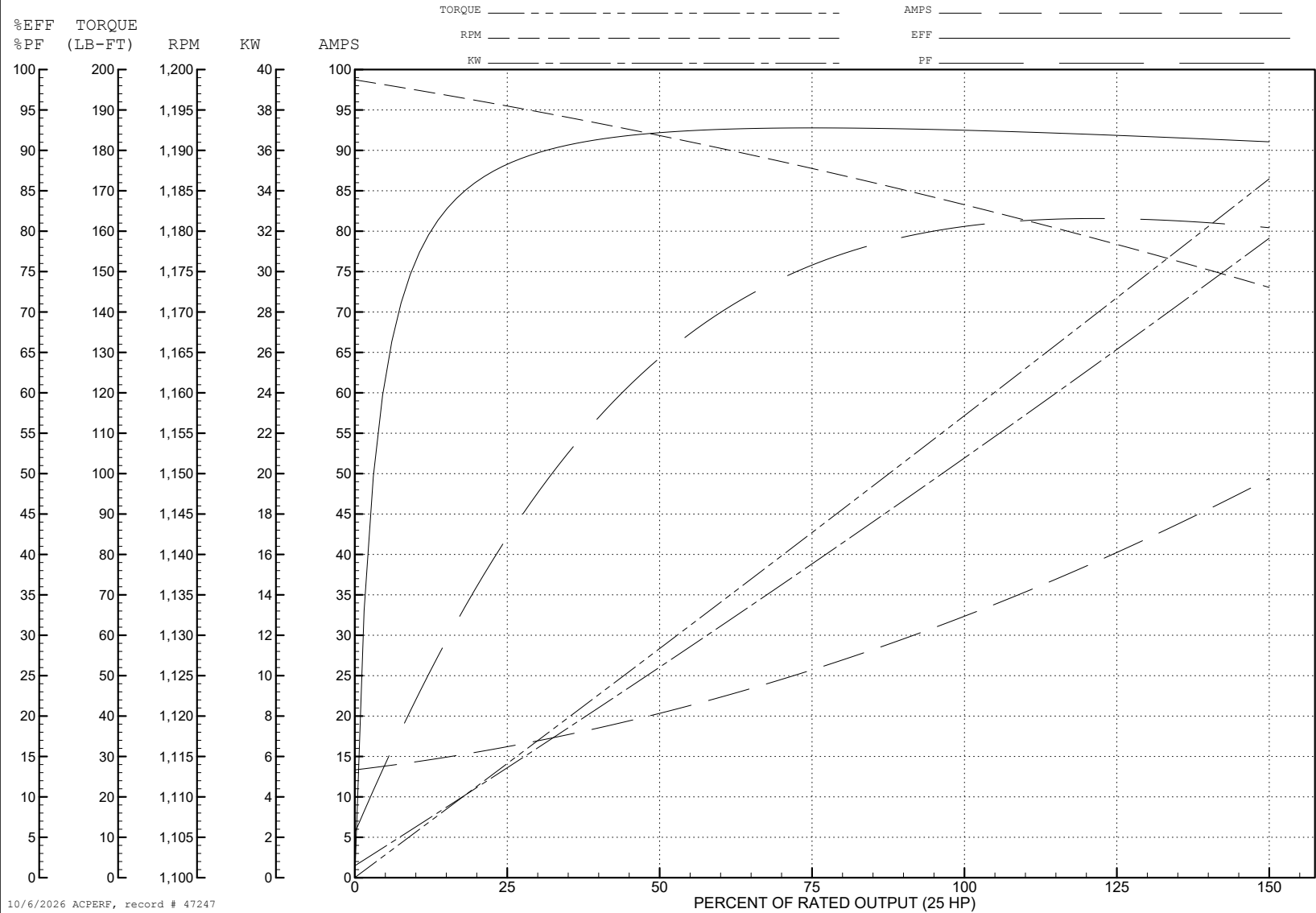
ABB Motors and Mechanical Inc.

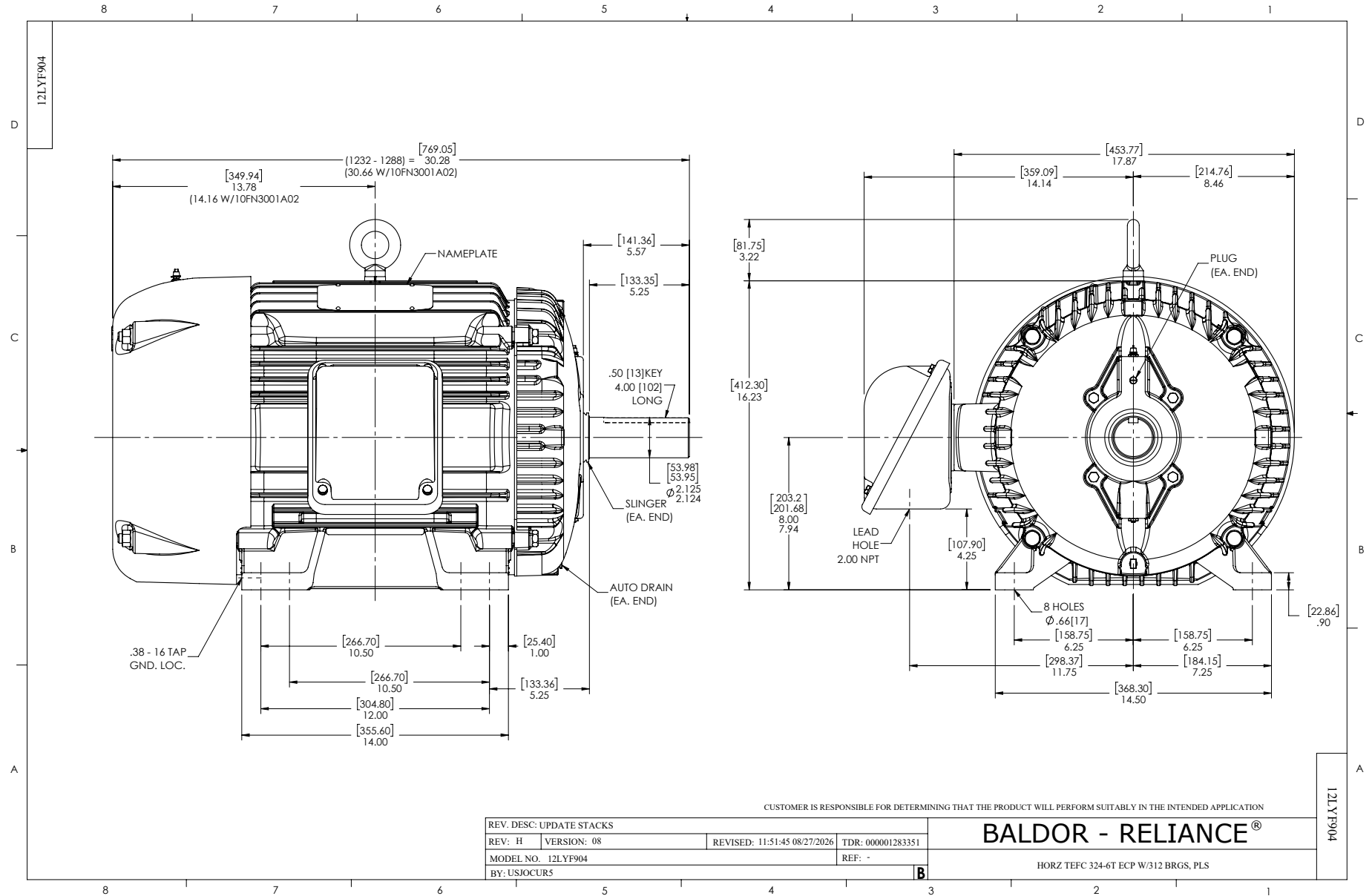
WINDING # 12WGY116

Typical performance - not guaranteed values.

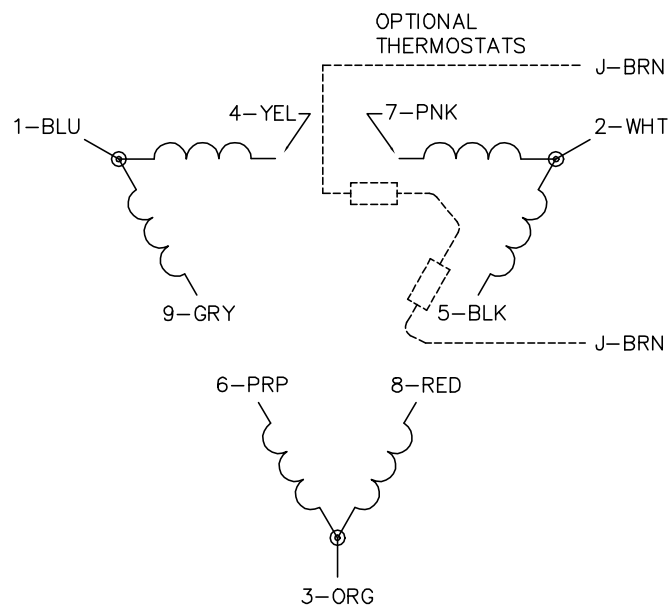
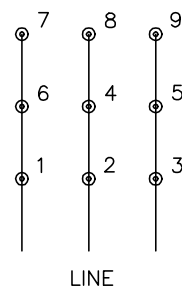
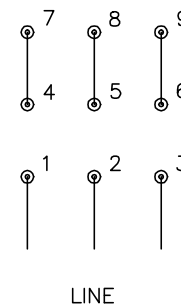
25 HP 3 PH 60 HZ 1180 RPM 460 V 1260M

TORQUES (LB-FT): PO=308 PU=117 LR=171 LRA=198





CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180