

ABB BALDOR RELIANCE III

Customer information packet

ECP4110T-5

40HP, 1775RPM, 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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	0.8
Current @ Voltage	37.000 A @ 575.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AK
Type	AC
Mech. spec.	12F904
Base	
Status	PRD/A
Elec. spec.	12WGX285
Layout	12LYF904
Eff. date	10-16-2025
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	01-07-2012

Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	37.0 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 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	86
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.	ECP4110T-5			P/N						ENCLOSURE		TEFC					
SPEC.	12F904X285G1		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	575			MOTOR WEIGHT			623										
AMP	37			SER.F.		1.15	PF	86	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

AC Induction Motor Performance Data

Record # 47186

Typical performance - not guaranteed values

Winding: 12WGX285-R017				Type: 1260M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		40		Full Load Torque		118 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		37		Breakdown Torque		357 LB-FT		
R.P.M.		1775		Pull-up Torque		167 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		178 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		259 A
Service Factor (S.F.)		1.15		No-load Current		13.7 A		
NEMA Nom. Eff.		94.1	Power Factor	86		Line-line Res. @ 25°C		0.209 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		51°C		
S.F. Amps				Temp. Rise @ S.F. Load		62°C		
				Locked-rotor Power Factor		26.9		
				Rotor inertia		7.99 LB-FT2		

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	79	86	86	87	86
Efficiency	90.6	93.9	94.6	94.6	94.1	93.5	94.3
Speed	1795	1790	1785	1780	1774	1767	1776
Line amperes	17.6	23	30	36.8	46	54.6	42.32

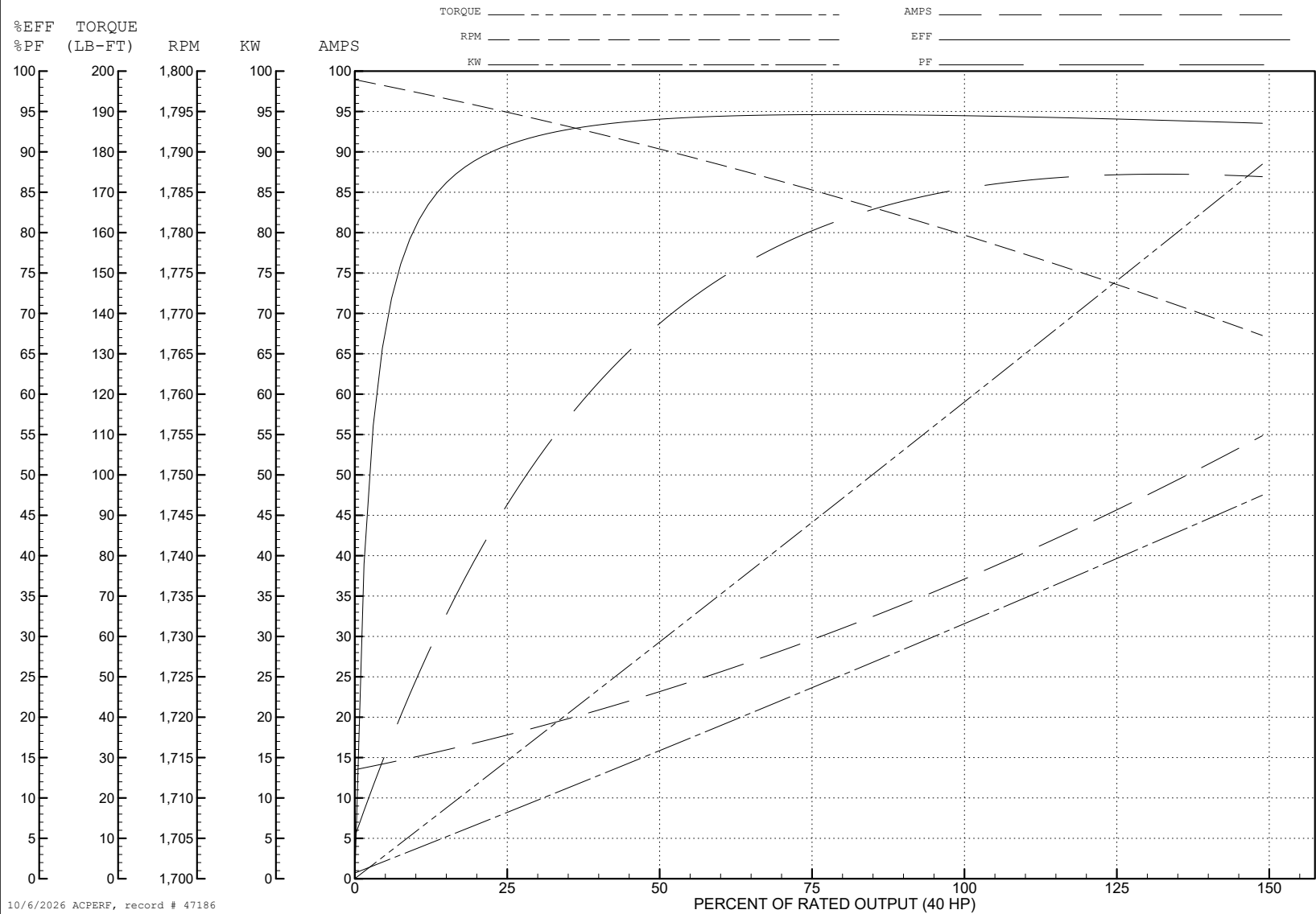
ABB Motors and Mechanical Inc.

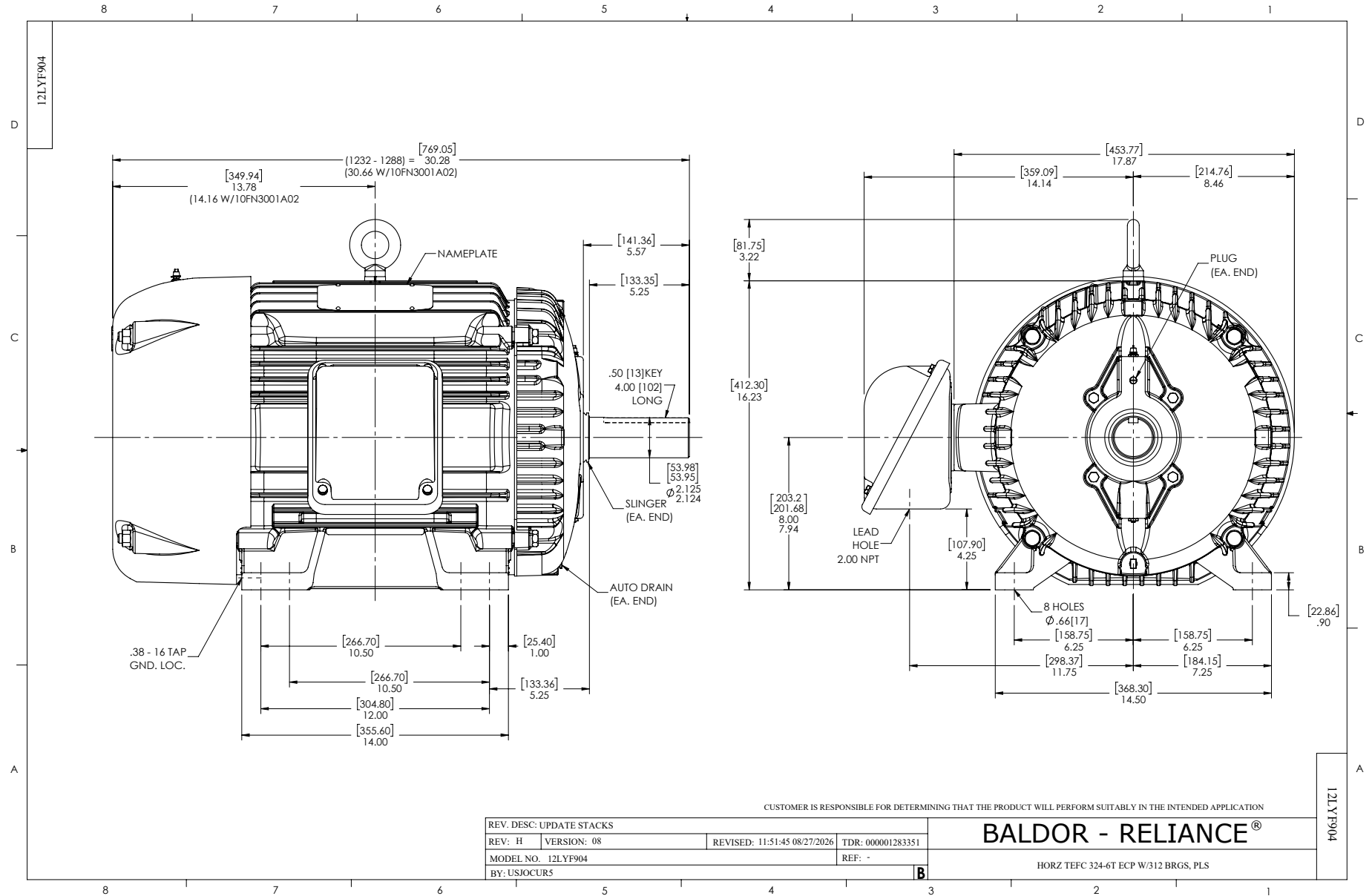
WINDING # 12WGX285

Typical performance - not guaranteed values.

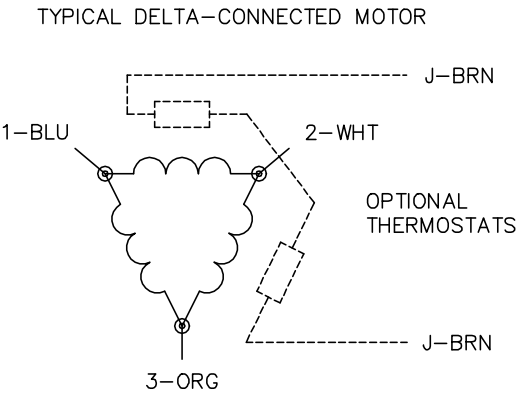
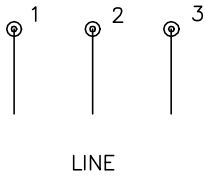
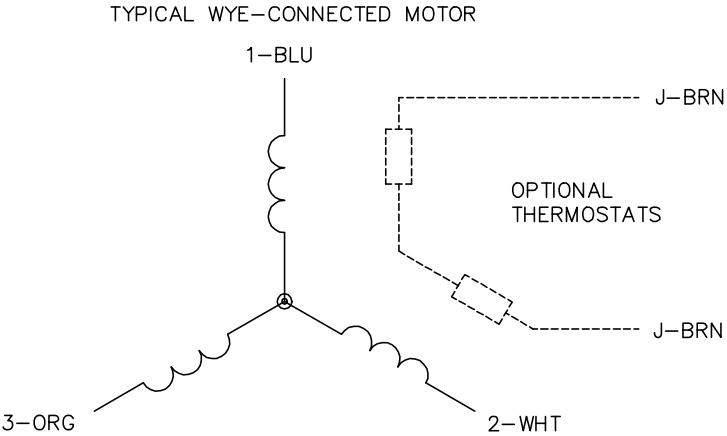
40 HP 3 PH 60 HZ 1775 RPM 575 V 1260M

TORQUES (LB-FT): PO=357 PU=167 LR=178 LRA=259





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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