

ABB BALDOR RELIANCE III

Customer information packet

ECP2402T-4

10HP, 880RPM, 3PH, 60HZ, 284T, 1046M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	6
Current @ Voltage	14.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	10H292
Base	
Status	PRD/A
Elec. spec.	10WGZ648
Layout	10LYH292
Eff. date	02-24-2026
CD Diagram	CD0006
Poles	08
Leads	3#10
Proprietary	False
Created date	08-10-2017

Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	14.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	28.00 IN
Power Factor	71
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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.	ECP2402T-4			P/N			ENCLOSURE			TEFC		
SPEC.	10H292Z648G2		CC	010A	FRAME	284T		S/N				
HP	10			CLASS	F	HZ	60	DES	B			
RPM	880			RPM MAX		1350		PH	3	KVA-CODE	G	
VOLT	460			MOTOR WEIGHT			468					
AMP	15.8			SER.F.	1.15	PF	66	ODE BRG	6311	DE BRG	6311	
RATING	40C AMB-CONT			NEMA-NOM-EFF			89.5		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	6	CT HZ TO		60								
HTR-VOLTS	HTR-AMPS		HTR-WATTS		MAX. SPACE HEATER TEMP.			VT HZ FROM		3	VT HZ TO	60

AC Induction Motor Performance Data

Record # 66224

Typical performance - not guaranteed values

Winding: 10WGZ648-R005			Type: 1046M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10	Full Load Torque		59.58 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		15.8	Breakdown Torque		169 LB-FT	
R.P.M.		880	Pull-up Torque		76.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	137 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	76.1 A	
Service Factor (S.F.)		1.15	No-load Current		9.02 A	
NEMA Nom. Eff.	89.5	Power Factor	66	Line-line Res. @ 25°C	0.956 Ω	
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load	48°C	
S.F. Amps				Temp. Rise @ S.F. Load	57°C	
				Locked-rotor Power Factor	30.6	
				Rotor inertia	5.67 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	59	66	70	72	73
Efficiency	81.6	88	89.6	90	89.5	88.3	89.7
Speed	896	892	887	886	882	876	883
Line amperes	9.78	11.2	13.3	15.8	18.8	22.3	16.3

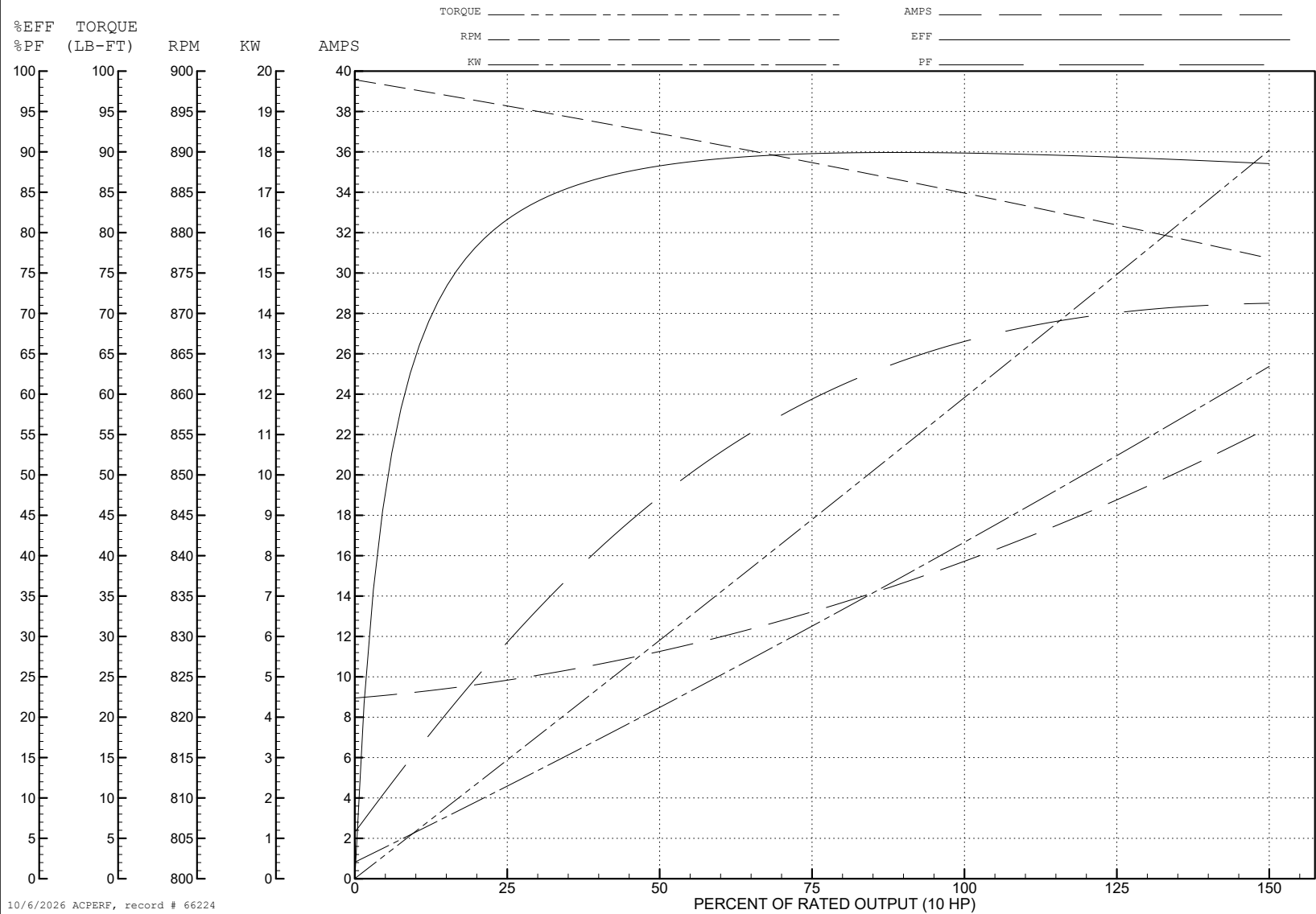
ABB Motors and Mechanical Inc.

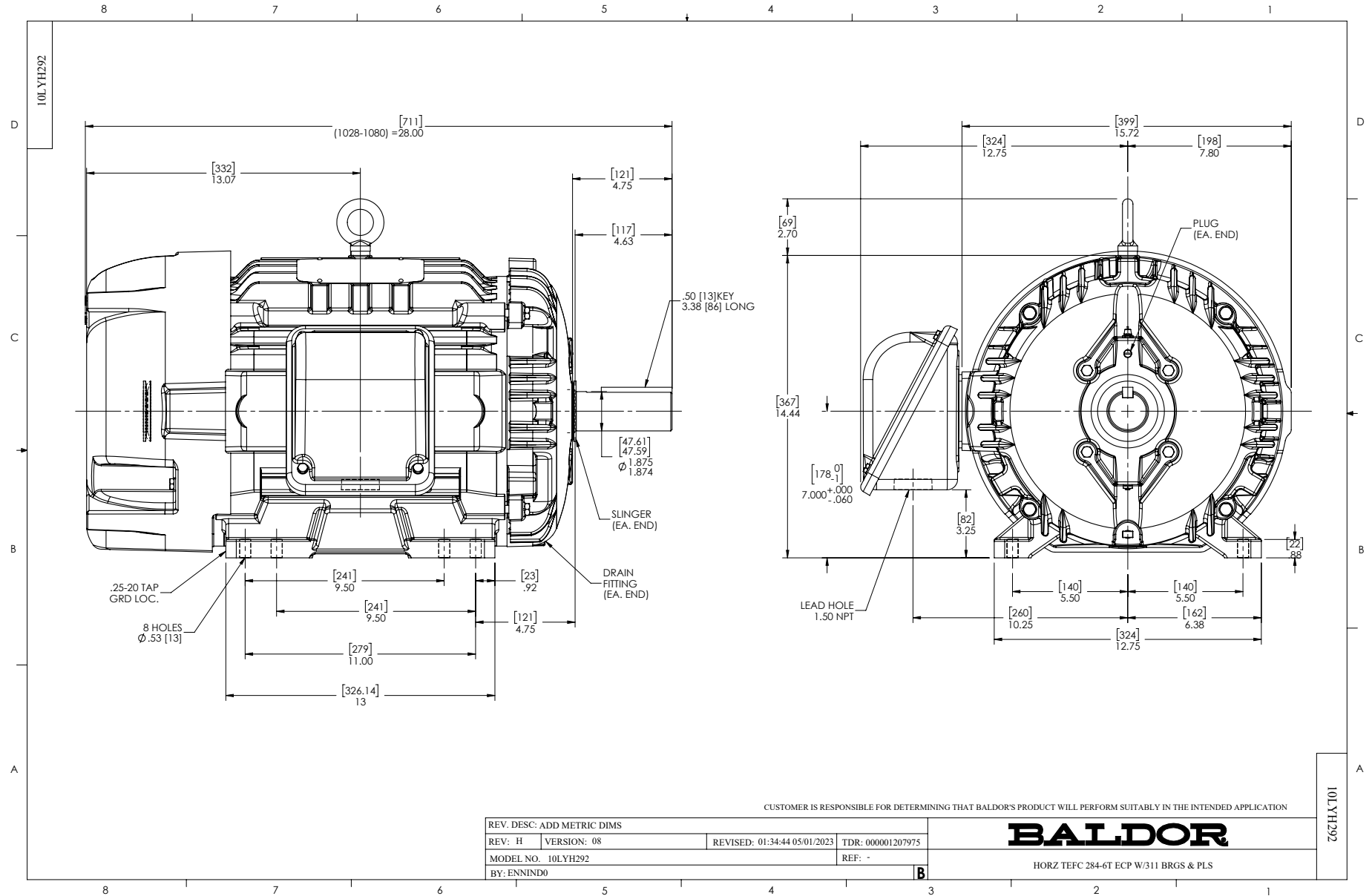
WINDING # 10WGZ648

Typical performance - not guaranteed values.

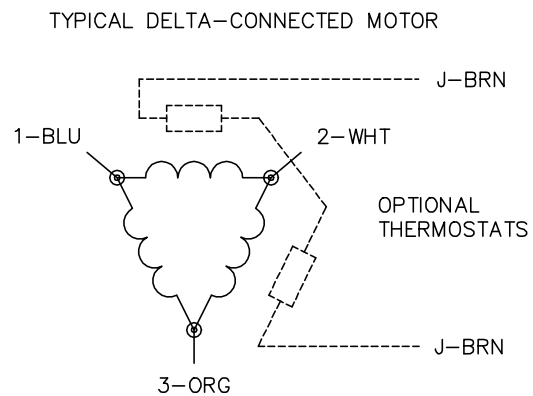
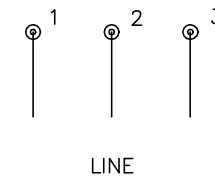
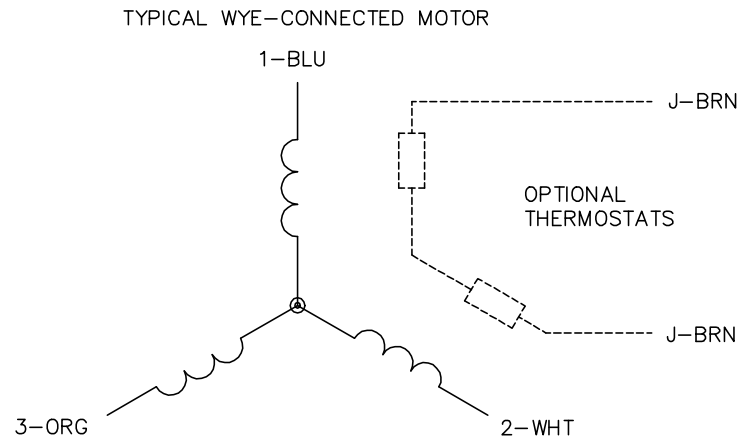
10 HP 3 PH 60 HZ 880 RPM 460 V 1046M

TORQUES (LB-FT): PO=169 PU=76.4 LR=137 LRA=76.1





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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