

ABB BALDOR RELIANCE III

Customer information packet

ECP4100T-5

46M 6P TEFC HOR 284T 32-6 SE

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	15.000 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	1.0
Current @ Voltage	17.100 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	K
Type	AC
Mech. spec.	10H292
Base	
Status	PRD/A
Elec. spec.	10WGZ513
Layout	10LYH292
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	05-17-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	17.1 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 Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.00 IN
Power Factor	72
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 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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3241																	
CAT.NO.	ECP4100T-5			P/N						ENCLOSURE		TEFC					
SPEC.	10H292Z513G1		CC	010A	FRAME	284T		S/N									
HP	15			CLASS	F	HZ	60	DES	A								
RPM	1180			RPM MAX		1800		PH	3	KVA-CODE		H					
VOLT	575			MOTOR WEIGHT			436										
AMP	17.1			SER.F.	1.15	PF	72	ODE BRG		6311	DE BRG		6311				
RATING	40C AMB-CONT			NEMA-NOM-EFF			91.7		GREASE		POLYREX EM						
							INV.TYPE		PWM								
TEMP CODE	T3C	INVERTER-TEMP-CODE			180												
TEMP =	160	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
10-1305	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 76318

Typical performance - not guaranteed values

Winding: 10WGZ513-R006				Type: 1046M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		66.63 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		17.1		Breakdown Torque		219 LB-FT	
R.P.M.		1180		Pull-up Torque		96.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		118 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		119 A
Service Factor (S.F.)		1.15		No-load Current		10.61 A	
NEMA Nom. Eff.		91.7	Power Factor	72	Line-line Res. @ 25°C		0.776 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps				Temp. Rise @ S.F. Load		52°C	
				Locked-rotor Power Factor		33.2	
				Rotor inertia		5.63 LB-FT2	

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	62	70	74	77	74
Efficiency	82.4	89.1	91	91.5	91.3	90.8	91.6
Speed	1196	1193	1189	1186	1182	1177	1181
Line amperes	11.22	12.69	14.87	17.52	20.67	24.06	19.1

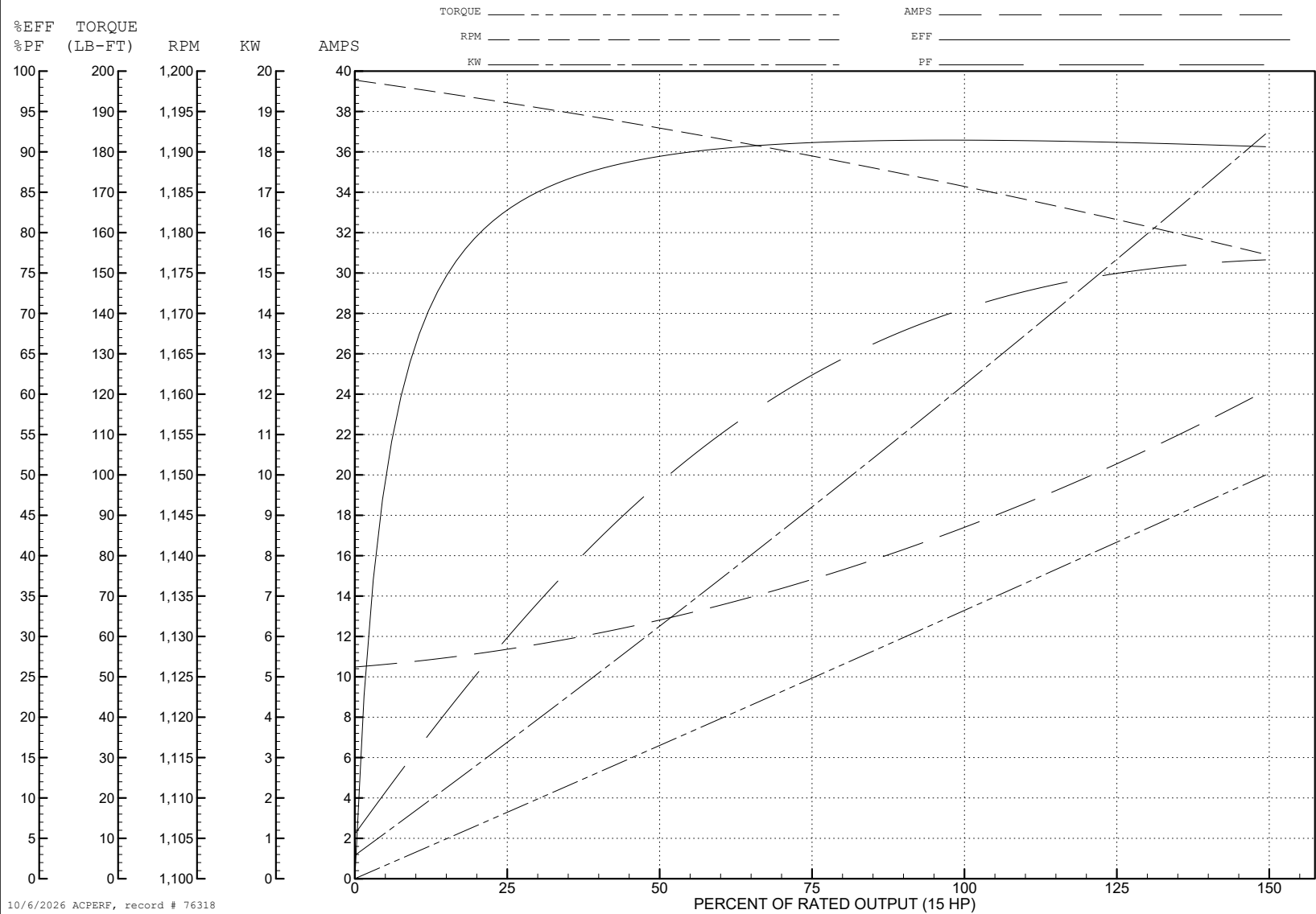
ABB Motors and Mechanical Inc.

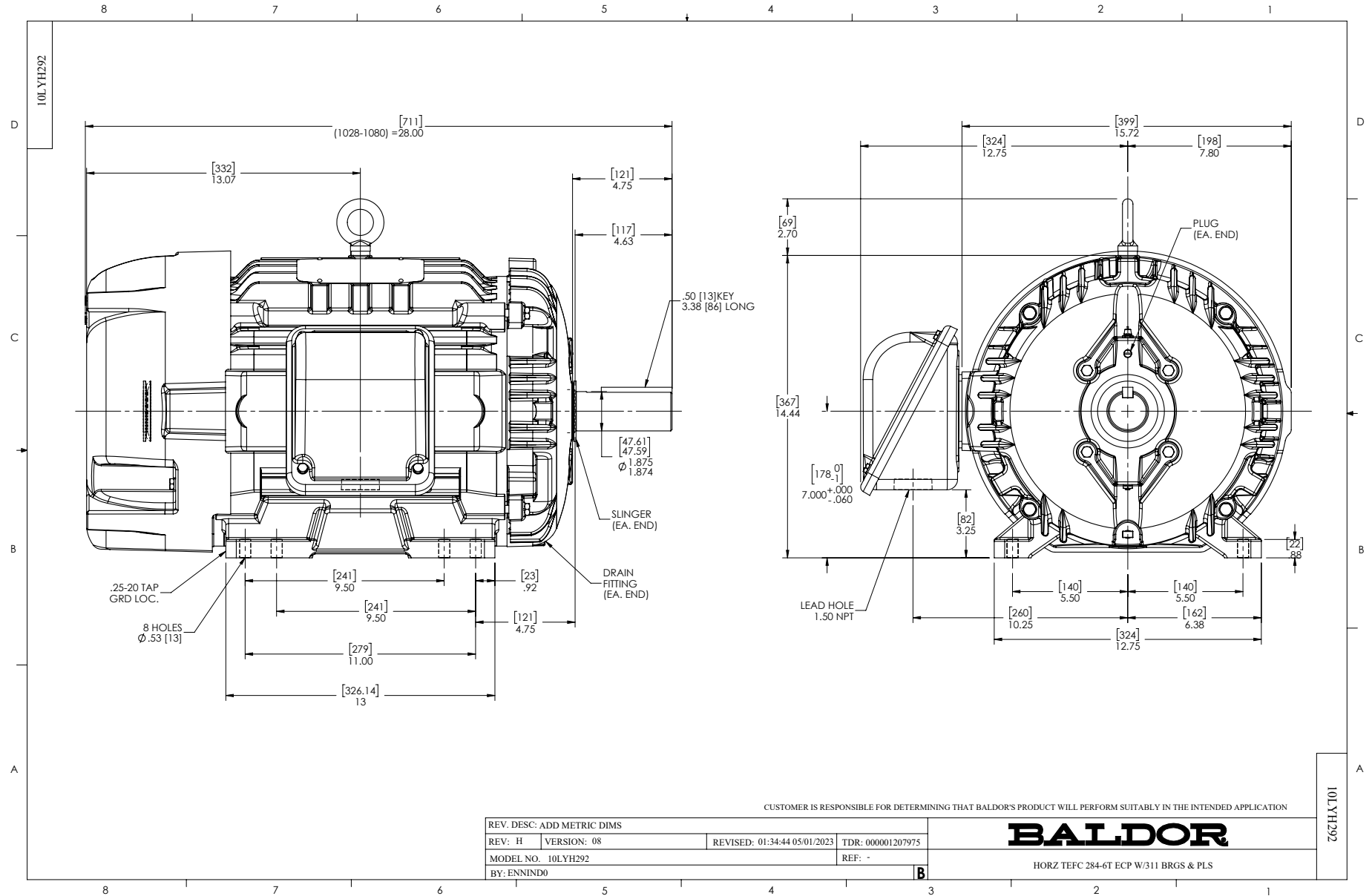
WINDING # 10WGZ513

Typical performance - not guaranteed values.

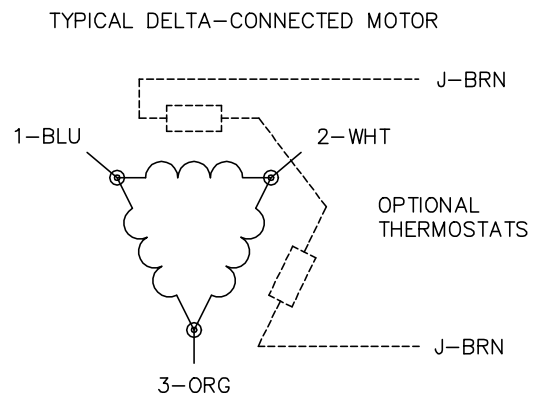
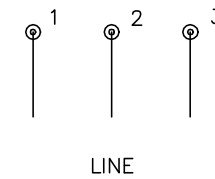
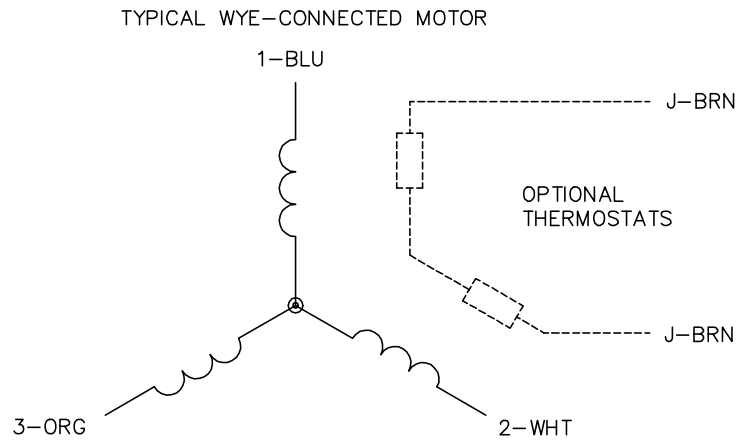
15 HP 3 PH 60 HZ 1180 RPM 575 V 1046M

TORQUES (LB-FT): PO=219 PU=96.4 LR=118 LRA=119





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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