

ABB BALDOR RELIANCE III

Customer information packet

ECP4103T-4

25HP, 1770RPM, 3PH, 60HZ, 284T, 1056M, 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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	1.0
Current @ Voltage	30.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	10H292
Base	
Status	PRD/A
Elec. spec.	10WZ580
Layout	10LYH292
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	04
Leads	3#10 Y
Proprietary	False
Created date	01-11-2017

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	F
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 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	85
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	1770 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.	ECP4103T-4			P/N						ENCLOSURE		TEFC					
SPEC.	10H292Z580G1		CC	010A	FRAME	284T		S/N									
HP	25			CLASS	F	HZ	60	DES	B								
RPM	1770			RPM MAX		2700		PH	3	KVA-CODE		F					
VOLT	460			MOTOR WEIGHT			435										
AMP	30			SER.F.	1.15	PF	85	ODE BRG		6311	DE BRG		6311				
RATING	40C AMB-CONT			NEMA-NOM-EFF			93.6		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

AC Induction Motor Performance Data

Record # 61560

Typical performance - not guaranteed values

Winding: 10WGZ580-R001			Type: 1056M	Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		74.31 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		30	Breakdown Torque		197 LB-FT		
R.P.M.		1770	Pull-up Torque		91.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		115 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		173 A
Service Factor (S.F.)		1.15	No-load Current		10.4 A		
NEMA Nom. Eff.		93.6	Power Factor	85	Line-line Res. @ 25°C		0.29877 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		54°C
S.F. Amps					Temp. Rise @ S.F. Load		67°C
					Locked-rotor Power Factor		30.3
					Rotor inertia		4.46 lb-ft²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.9	91.8	93.2
Speed	1792.8	1785.5	1778.9	1770.7	1762.4	1751.5	1766
Line amperes	12.5	17	22.9	29.5	36.5	44.7	33.7

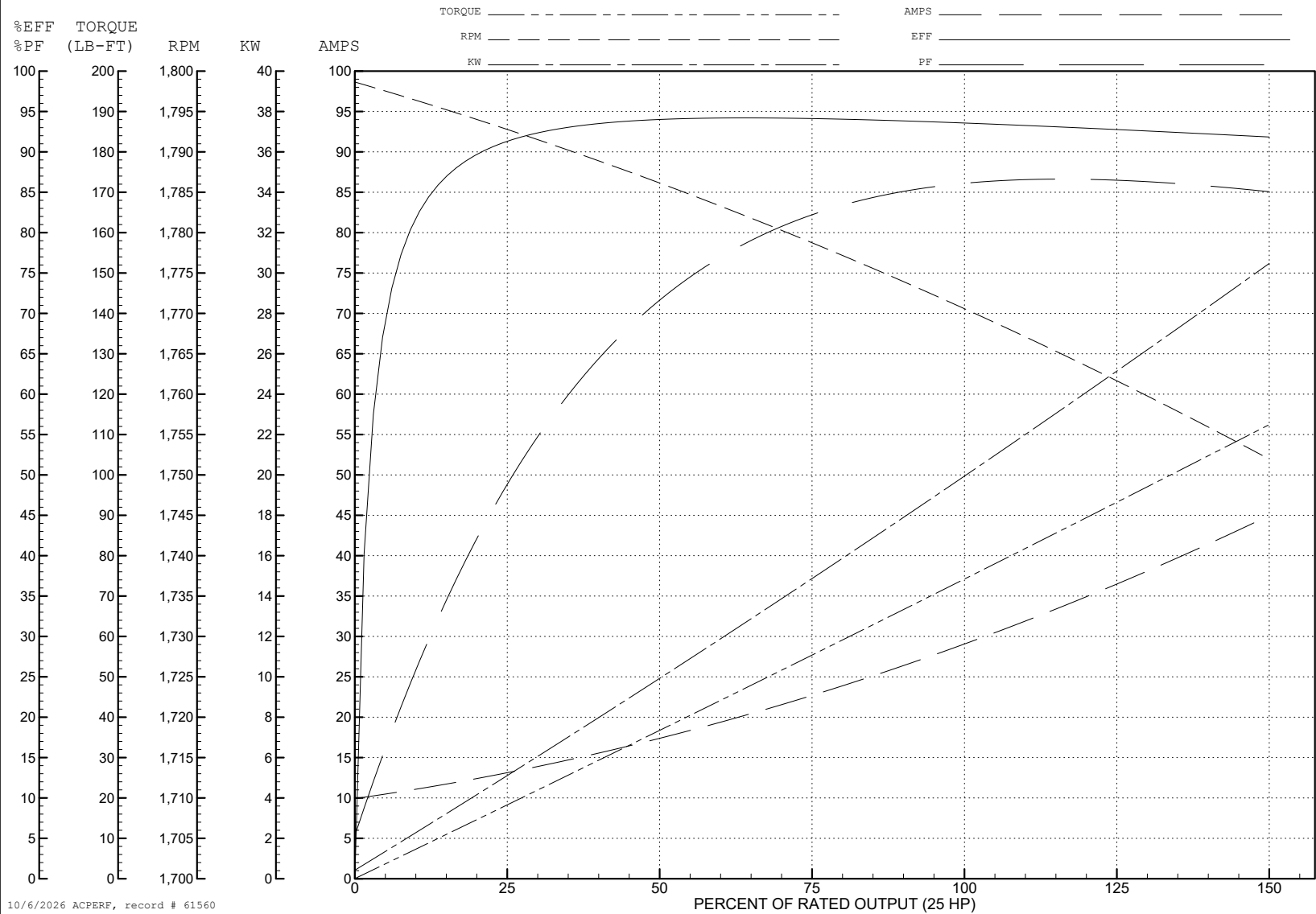
ABB Motors and Mechanical Inc.

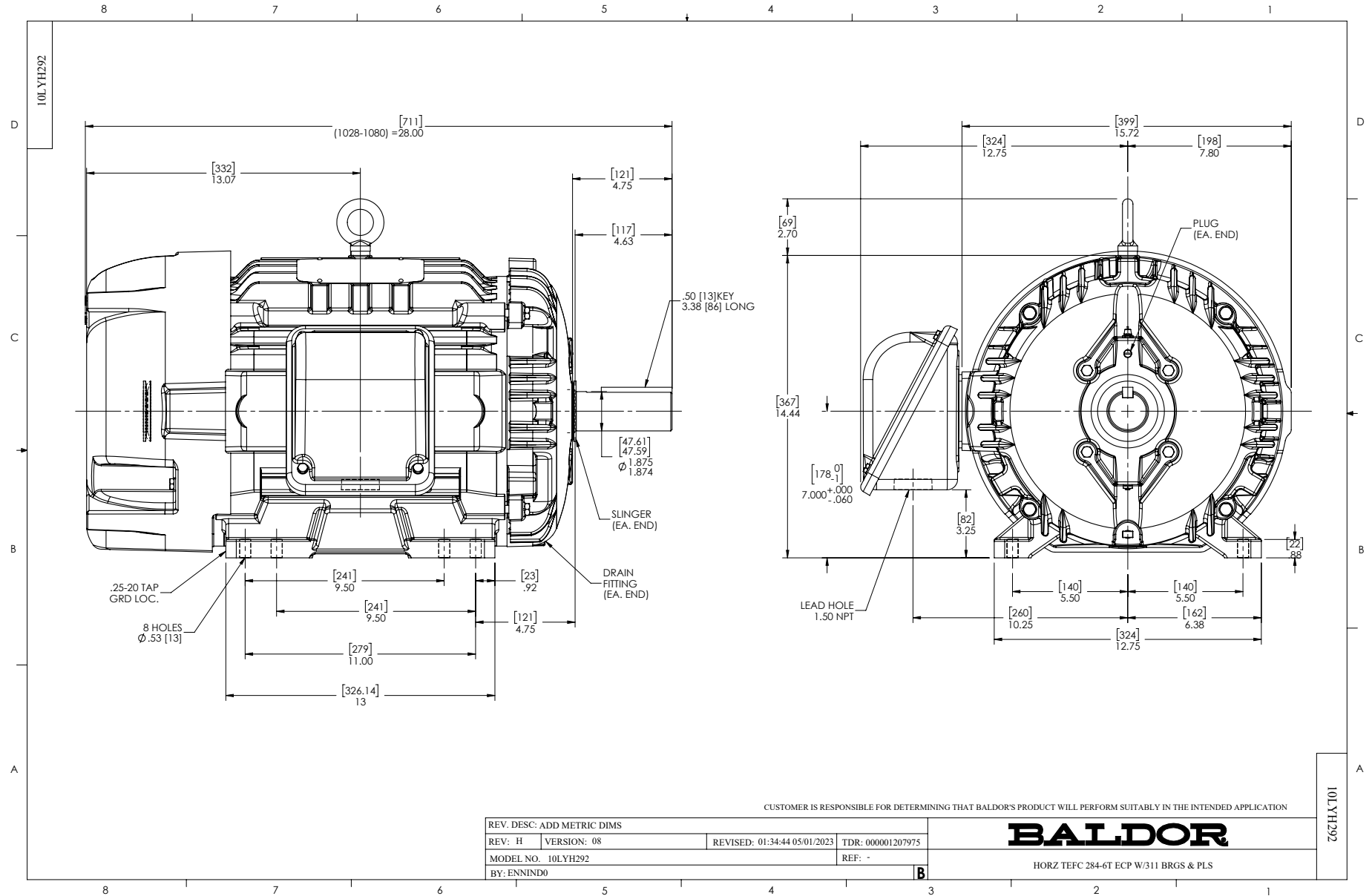
WINDING # 10WGZ580

Typical performance - not guaranteed values.

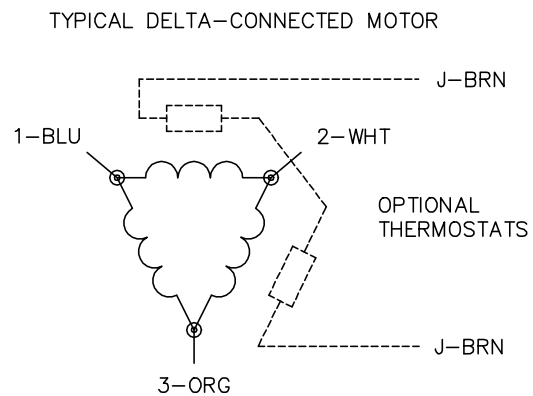
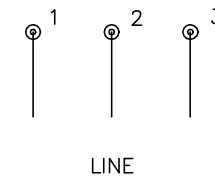
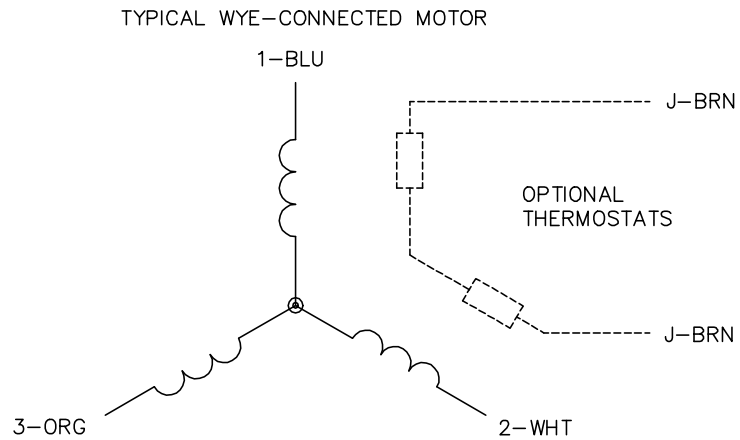
25 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

TORQUES (LB-FT): PO=197 PU=91.4 LR=115 LRA=173





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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