



Customer information packet

ECP4103T

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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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 60.000 A @ 230.0 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

Part detail

Revision	K
Type	AC
Mech. spec.	10H292
Base	
Status	PRD/A
Elec. spec.	10WGZ624
Layout	10LYH292
Eff. date	07-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	04-03-2017

Front Face Code	Standard
Front Shaft Indicator	None
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	9 @ 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	P/N		ENCLOSURE	TEFC
SPEC.	10H292Z624G2	CC	010A	FRAME	284T
HP	25	CLASS	F	HZ	60
RPM	1770	RPM MAX	2700	PH	3
VOLT	230/460	MOTOR WEIGHT	431	KVA-CODE	F
AMP	60/30	SER.F.	1.15	PF	85
RATING	40C AMB-CONT	NEMA-NOM-EFF	93.6	ODE BRG	6311
				DE BRG	6311
				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	0
				VT HZ TO	60

AC Induction Motor Performance Data

Record # 62432

Typical performance - not guaranteed values

Winding: 10WGZ624-R001		Type: 1056M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
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	Locked-rotor Torque	115 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	173 A	
Service Factor (S.F.)	1.15	No-load Current	10.4 A	
NEMA Nom. Eff.	93.6 Power Factor	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	

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

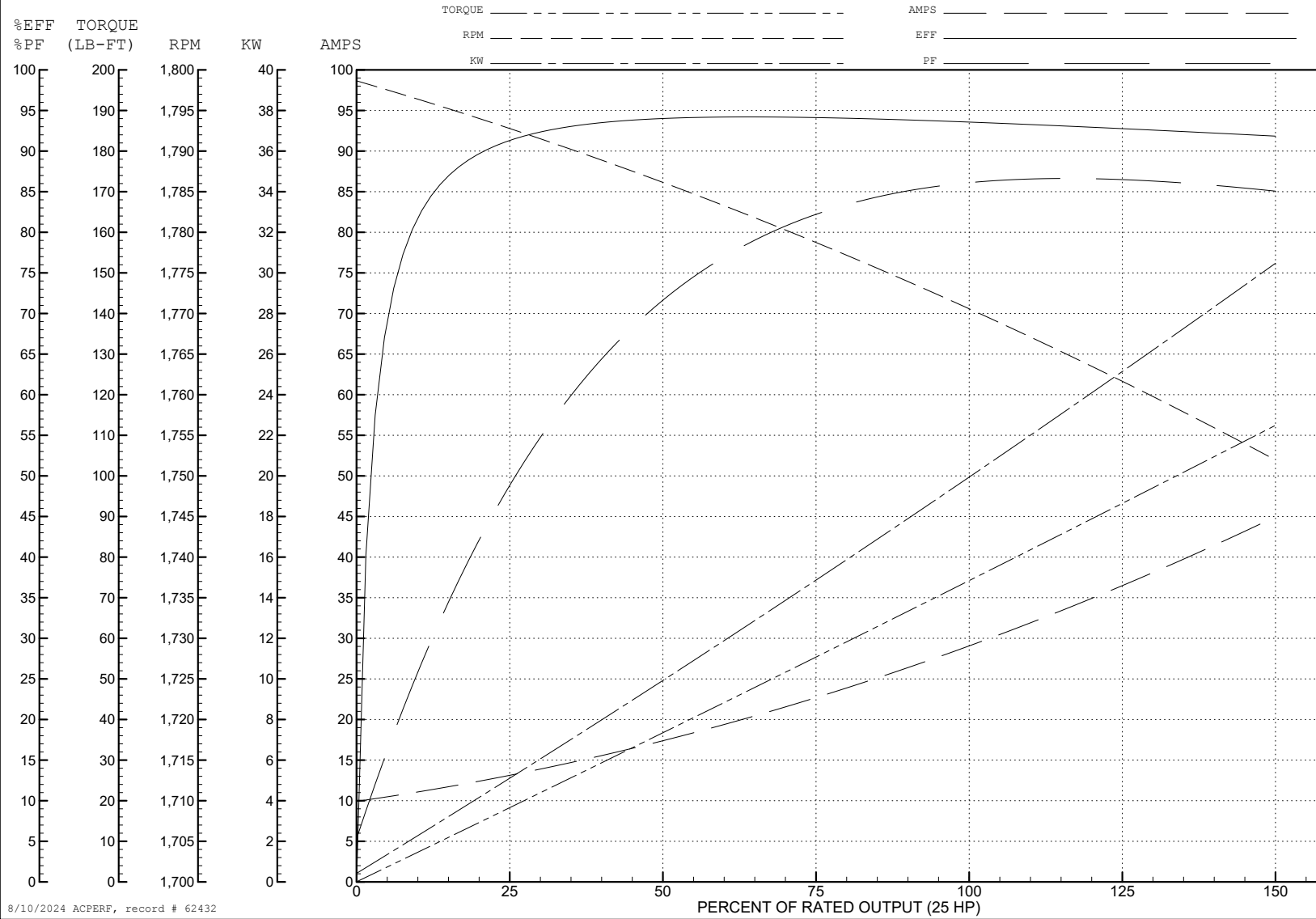
ABB Motors and Mechanical Inc.

WINDING # 10WGZ624

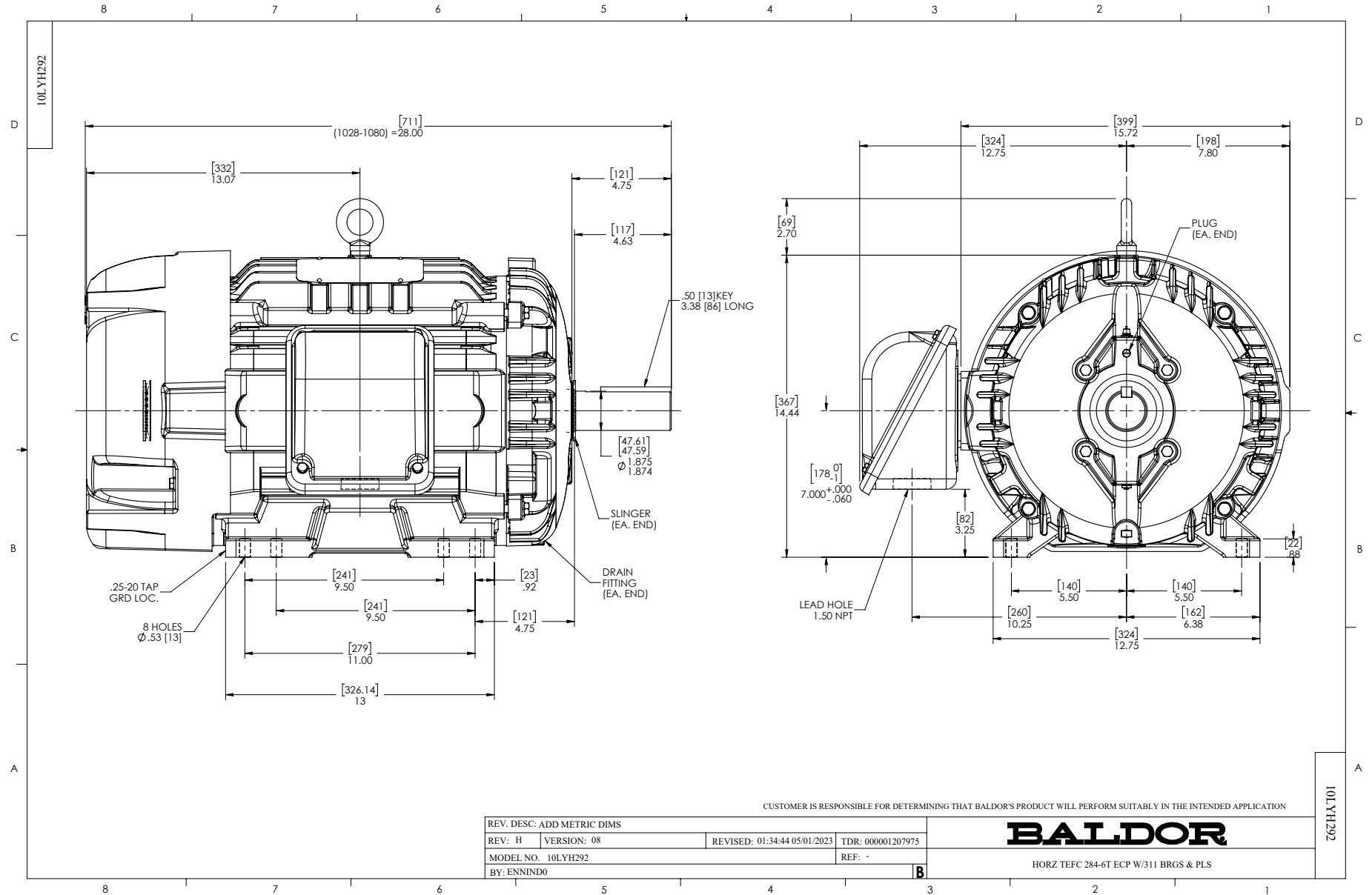
Typical performance - not guaranteed values.

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

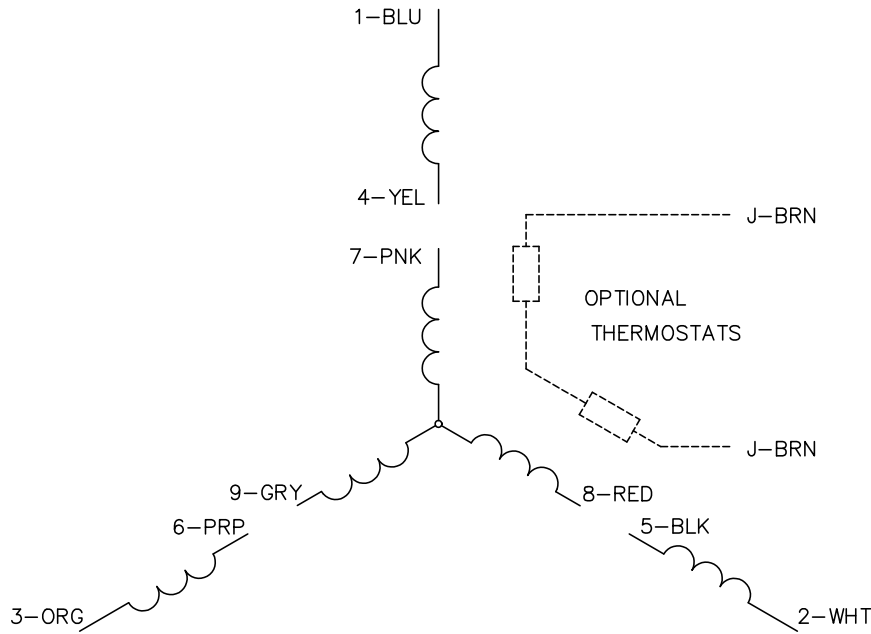
TORQUES (LB-FT): PO=197 PU=91.4 LR=115 LRA=173



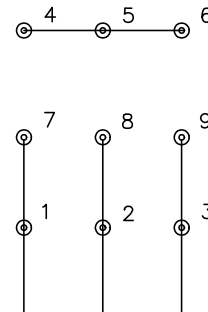
8/10/2024 ACPERF, record # 62432



CD0005

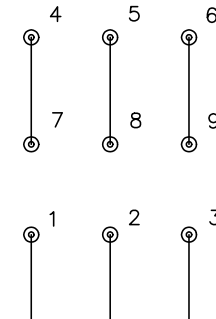


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS