ABB BALDOR RELIANCE

Customer information packet

ECP4103T

25HP, 1770RPM, 3PH, 60HZ, 284T, 1056M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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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
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
	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	M
Type	AC
Mech. spec.	10H292
Base	
Status	PRD/A
Elec. spec.	10WGZ624
Layout	10LYH292
Eff. date	09-29-2025
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			**S/N**				
HP	25			**CLASS**	F	**HZ**	60	**DES**	B			
RPM	1770			**RPM MAX**	2700			**PH**	3	**KVA-CODE**	F	
VOLT	230/460					**MOTOR WEIGHT**	431					
AMP	60/30			**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 # 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**	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. @ 25ºC**	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

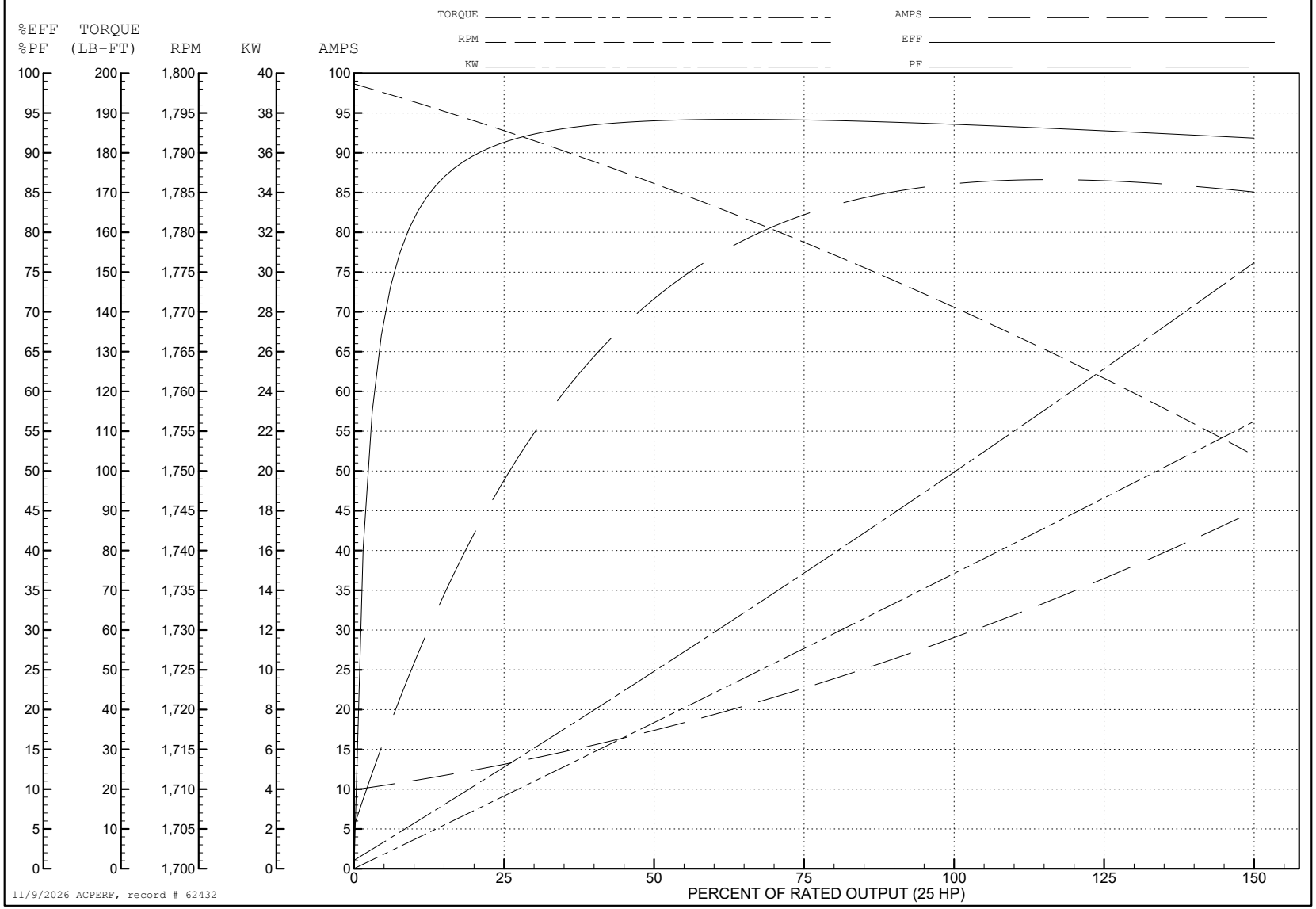
ABB Motors and Mechanical Inc.

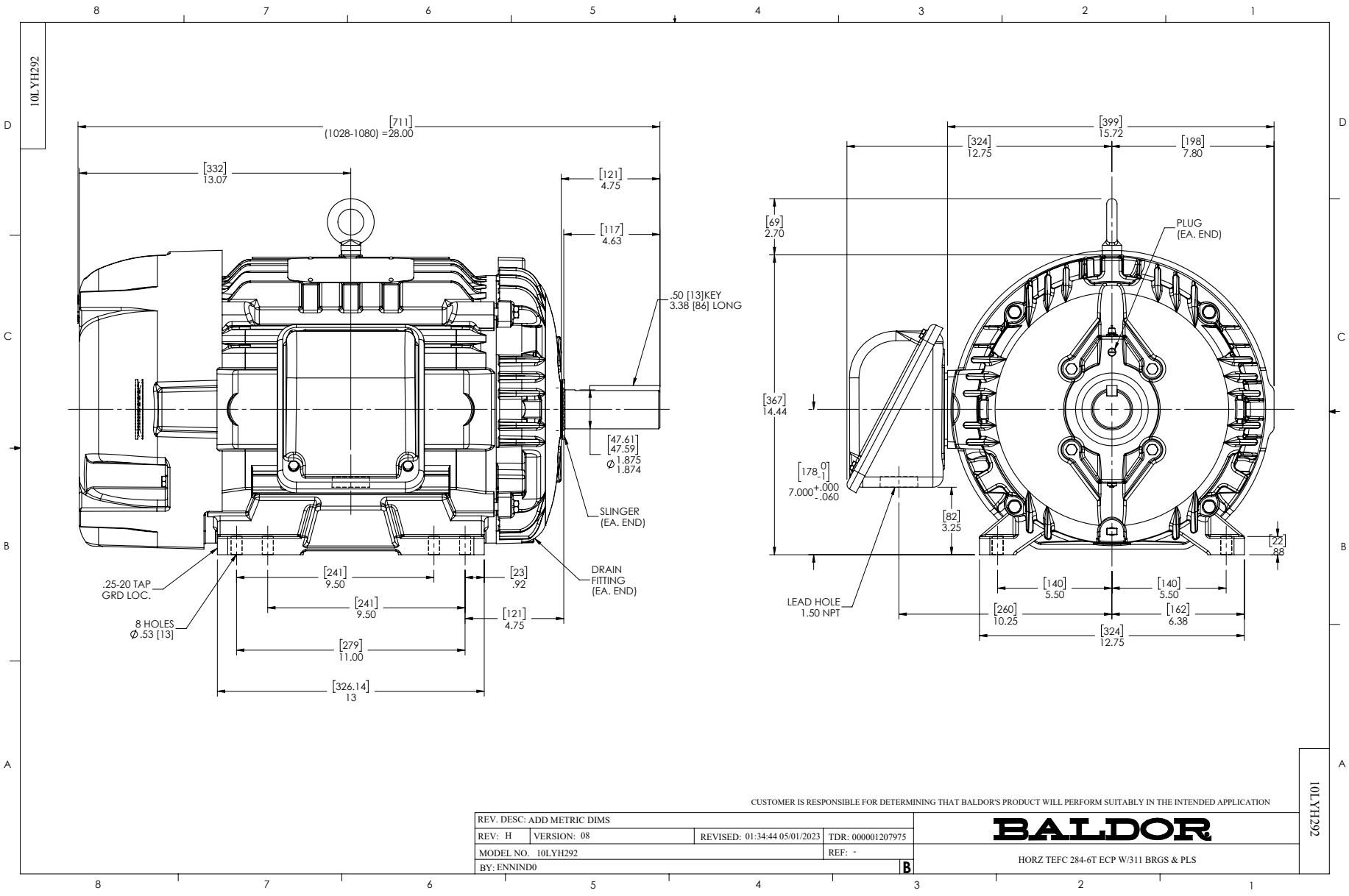
WINDING # 10WGZ624

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

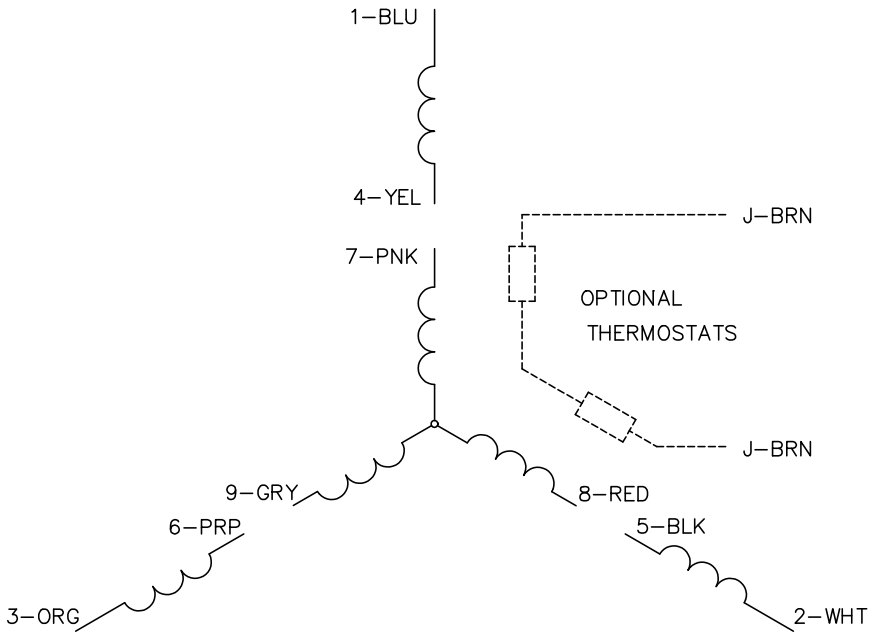
Typical performance - not guaranteed values.

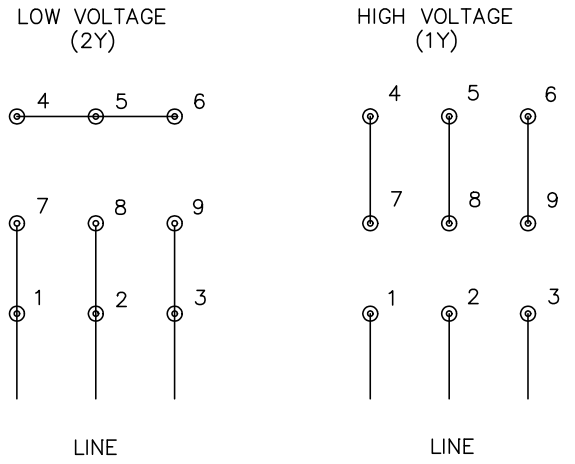
TORQUES(LB-FT): PO=197 PU=91.4 LR=115 LRA=173




10LYH292
[711]
(1028-1080) =28.00
[332]
13.07
[121]
4.75
[117]
4.63
.50 [13]KEY
3.38 [86] LONG
[47.61]
[47.59]
Ø 1.875
1.874
SLINGER
(EA. END)
DRAIN
FITTING
(EA. END)
.25-20 TAP
GRD LOC.
8 HOLES
Ø .53 [13]
[241]
9.50
[241]
9.50
[23]
.92
[121]
4.75
[279]
11.00
[326.14]
13
[399]
15.72
[324]
12.75
[198]
7.80
[69]
2.70
PLUG
(EA. END)
[367]
14.44
[178.0 -1]
7.000 +.000 -.060
[82]
3.25
[22]
.88
LEAD HOLE
1.50 NPT
[140]
5.50
[140]
5.50
[260]
10.25
[162]
6.38
[324]
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMS
REV: H
VERSION: 08
REVISED: 01:34:44 05/01/2023
TDR: 000001207975
MODEL NO. 10LYH292
REF: -
BY: ENNIND0
B
BALDOR
HORZ TEFC 284-6T ECP W/311 BRGS & PLS
10LYH292

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS