

ABB BALDOR RELIANCE III

Customer information packet

ECP64103TR-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	Mobilith SHC220, HC9455
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.	10J448
Base	
Status	PRD/A
Elec. spec.	10WGZ580
Layout	10LYJ448
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
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	Ring Terminals
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.01 IN
Power Factor	85
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Roller
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	No 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

NP4367																	
CAT.NO.	ECP64103TR-4				CUST. P/N								ENCL	TEFC			
SPEC.	10J448Z580G1				CC	010A	FRAME	284T		SER.NO.							
HP	25				CLASS		F	HZ	60	ODE BRG	6311	DE BRG		NU311			
R.P.M.	1770	MAX. R.P.M.		2700		PH.		3	DES.	B	ABMA DE BRG			55RU03X30X			
VOLTS	460				CODE		F	ABMA ODE BRG			55BC03X30X						
AMPS	30				MOTOR WT.			461		LUBRICATION		MOBIL SHC 222					
RATING	40C AMB-CONT				MAX. KVAR			5.9		BLANK	AIR COOLED HEAT						
NEMA NOM. EFF.	93.6	# OF ROTOR BARS			40		SER.F.		1.15	IP	56	EXCHANGER					
GUAR.MIN.EFF	92.4	# OF STATOR SLOTS			48		P.F.		85	1.0 S.F. ON		PWM					
TEMP CODE	T3C		INVERTER TEMP CODE:TEMP=					180									
TEMP =	160	CHP	60	TO	90												
CT	1.0	TO	60														
VOLTS		AMPS			WATTS			MAX. SPACE HEATER TEMP.						VT	O	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

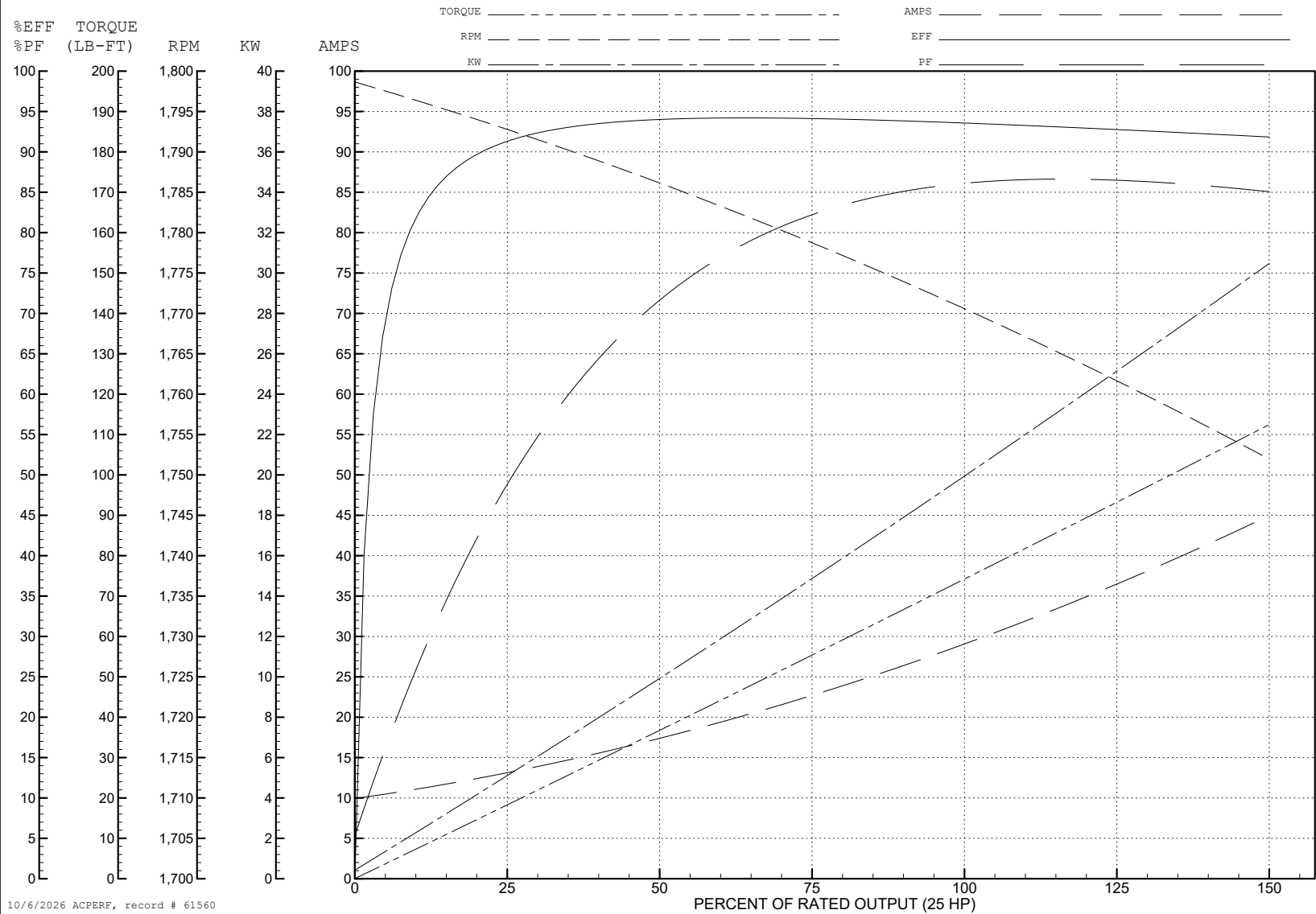
ABB Motors and Mechanical Inc.

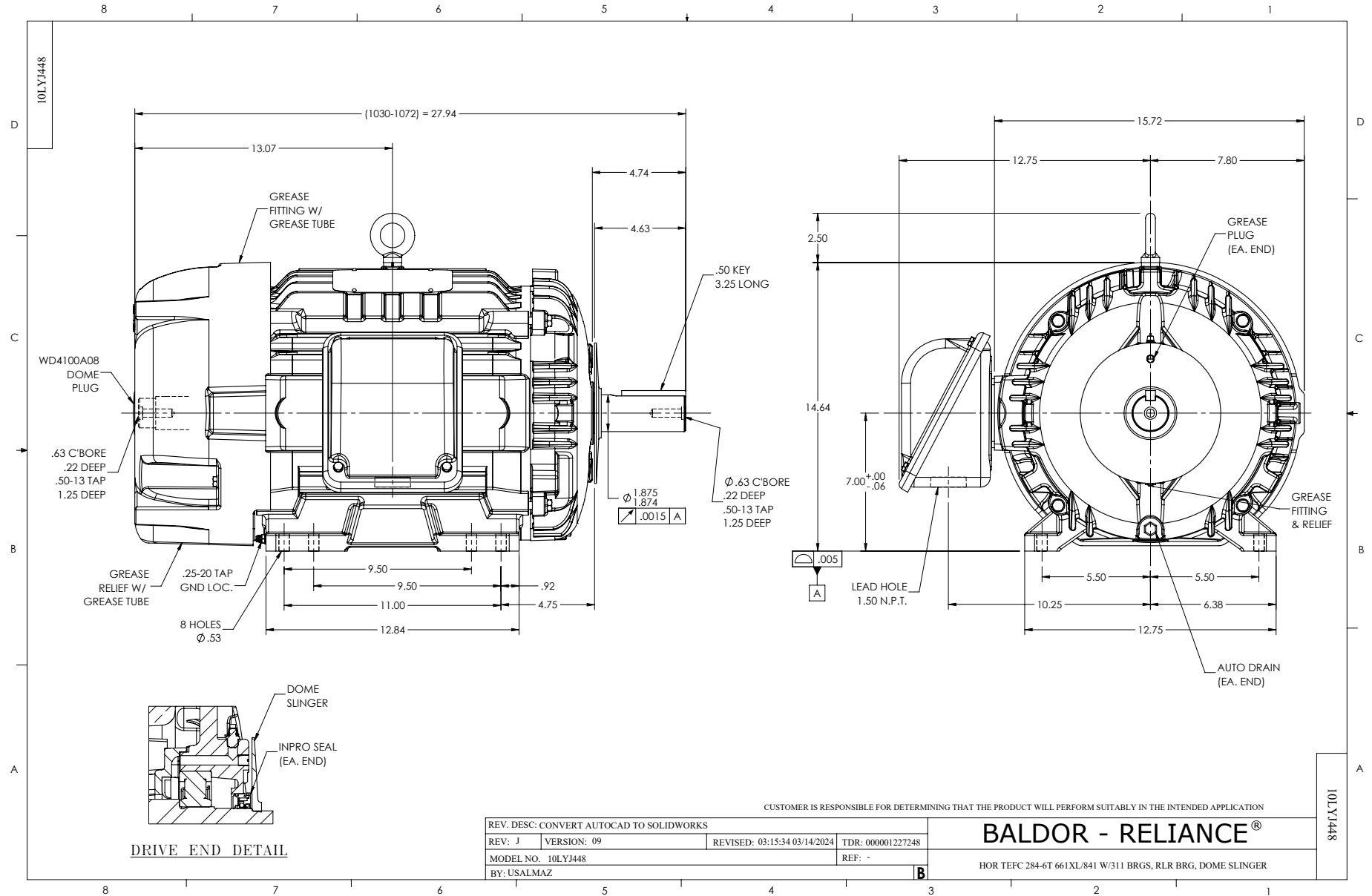
WINDING # 10WGZ580

Typical performance - not guaranteed values.

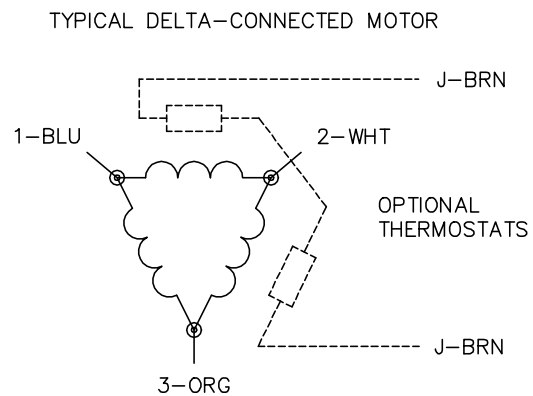
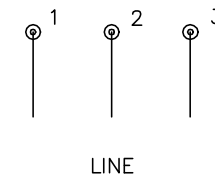
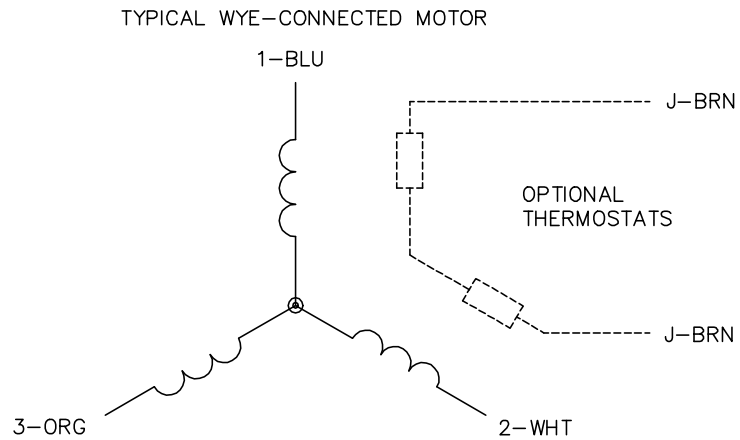
25 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

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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