ABB BALDOR RELIANCE

Customer information packet

ECP64104TR-4

30HP, 1770RPM, 3PH, 60HZ, 286T, 1060M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	286T
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
	UR
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	MOBIL SHC POLYREX 222
Blower	None
Constant Torque Speed Range	1
Current @ Voltage	36.000 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	AA
Type	AC
Mech. spec.	10J448
Base	
Status	PRD/A
Elec. spec.	10WGZ438
Layout	10LYJ448
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	11-04-2015

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
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	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.01 IN
Power Factor	84
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
RoHS Status	ROHS COMPLIANT
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.	ECP64104TR-4			**CUST. P/N**				**ENCL**	TEFC				
SPEC.	10J448Z438		**CC**	010A	**FRAME**	286T		**SER.NO.**					
HP	30			**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**	G	**ABMA ODE BRG**	55BC03X30X						
AMPS	36			**MOTOR WT.**	487	**LUBRICATION**	MOBIL SHC 222						
RATING	40C AMB-CONT			**MAX. KVAR**	7.7	**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.**	84	**1.0 S.F. ON**	PWM						
TEMP CODE	T3C	**INVERTER TEMP CODE:TEMP=**	180										
TEMP =	160	**CHP**	60	**TO**	90								
CT	1	**TO**	60										
VOLTS		**AMPS**		**WATTS**		**MAX. SPACE HEATER TEMP.**		**VT**	0-	**TO**	60		

AC Induction Motor Performance Data
Record # 93188
Typical performance - not guaranteed values

Winding: 10WGZ438-R001	**Type:** 1060M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	88.64 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			36	**Breakdown Torque**	267 LB-FT
R.P.M.			1770	**Pull-up Torque**	116 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	217.5 A
Service Factor (S.F.)			1.15	**No-load Current**	13.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.234 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	4.77 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	71	80	84	85	85	83
Efficiency	91	94	94.3	93.6	93.7	92	93.4
Speed	1793	1787	1779	1772	1764	1753	1769
Line amperes	15.8	21.1	27.8	35.6	44	53.5	41.5

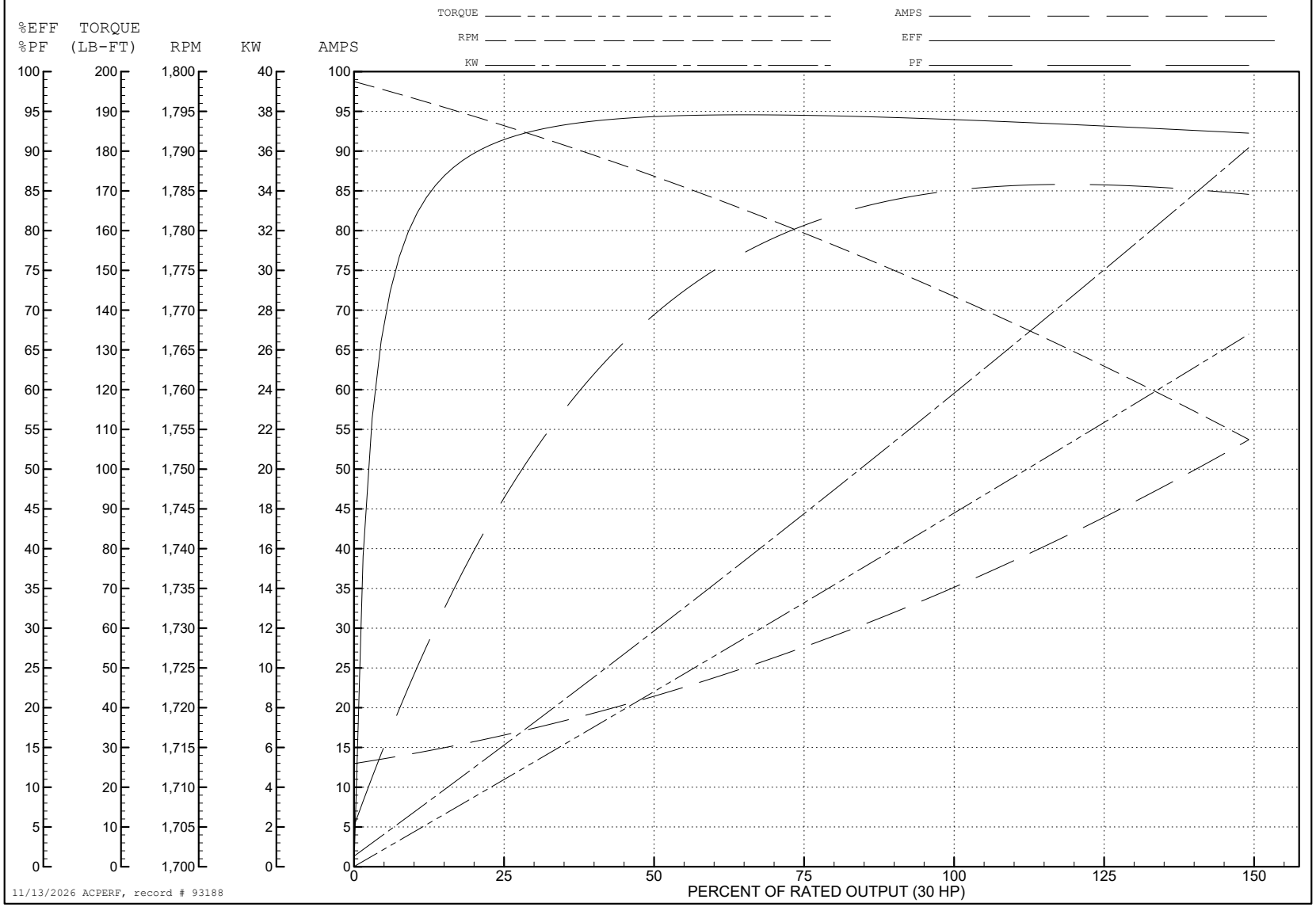
ABB Motors and Mechanical Inc.

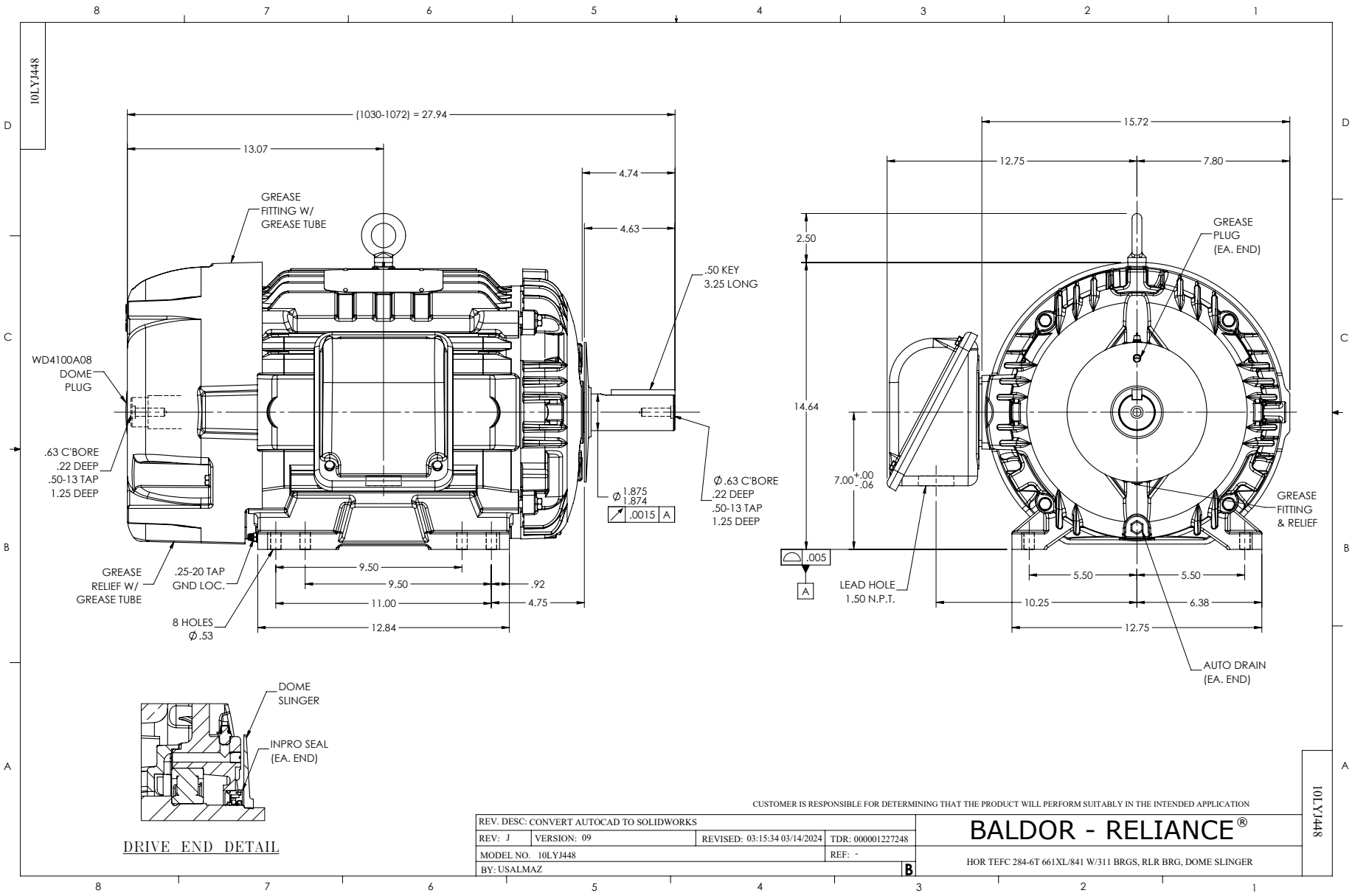
WINDING # 10WGZ438

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

Typical performance - not guaranteed values.

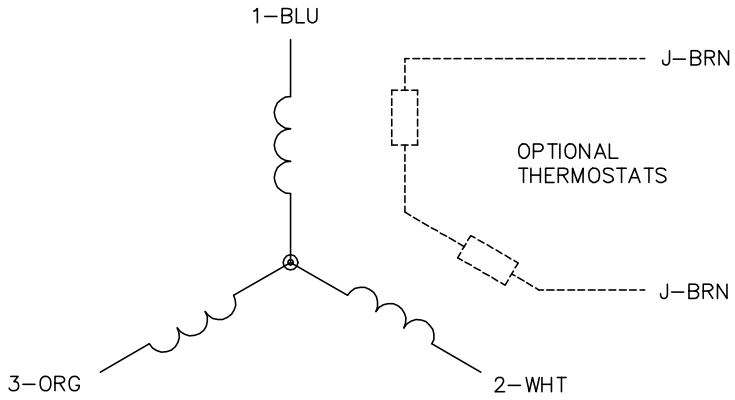
TORQUES(LB-FT): PO=267 PU=116 LR=142 LRA=217.5

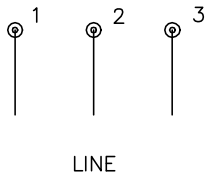



10LYJ448
(1030-1072) = 27.94
13.07
4.74
4.63
GREASE FITTING W/ GREASE TUBE
.50 KEY 3.25 LONG
WD4100A08 DOME PLUG
.63 C'BORE .22 DEEP .50-13 TAP 1.25 DEEP
Ø 1.875 1.874
.0015 A
Ø .63 C'BORE .22 DEEP .50-13 TAP 1.25 DEEP
GREASE RELIEF W/ GREASE TUBE
.25-20 TAP GND LOC.
8 HOLES Ø.53
9.50
9.50
.92
11.00
4.75
12.84
15.72
12.75
7.80
2.50
GREASE PLUG (EA. END)
14.64
7.00 +.00 -.06
.005
A
LEAD HOLE 1.50 N.P.T.
GREASE FITTING & RELIEF
5.50
5.50
10.25
6.38
12.75
AUTO DRAIN (EA. END)
DOME SLINGER
INPRO SEAL (EA. END)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SOLIDWORKS
REV: J
VERSION: 09
REVISED: 03:15:34 03/14/2024
TDR: 000001227248
MODEL NO. 10LYJ448
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 284-6T 661XL/841 W/311 BRGS, RLR BRG, DOME SLINGER
10LYJ448

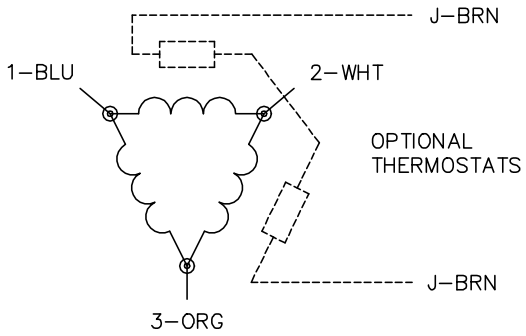
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1