ABB BALDOR RELIANCE

Customer information packet

ECTM4115T

50 AIR OVERHP, 1775RPM, 3PH, 60HZ, 326T, 1272
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	CSA
	CSA EEV
	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
Current @ Voltage	116.000 A @ 230.0 V
	58.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 a

Part Detail

Revision	H
Type	AC
Mech. spec.	12H727
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYH727
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-03-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.38 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	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP2178									
CAT.NO.	ECTM4115T								
SPEC.	12H727Z279G1								
HP	50 AIR OVER								
VOLTS	230/460								
AMP	116/58								
RPM	1775								
FRAME	326T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
NEMA-NOM-EFF	94.5	**PF**	85						
RATING	40C AMB-CONT								
CC									
DE	6312	**ODE**	6311						
ENCL	TEAO	**SN**							
	2050 FPM @ 520CFM								

AC Induction Motor Performance Data
Record # 86836
Preliminary Data Sheet

Winding: 12WGZ279-R003	**Type:** 1272M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	147.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			116/58	**Breakdown Torque**	475 LB-FT
R.P.M.			1775	**Pull-up Torque**	210 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	240 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	413 A
Service Factor (S.F.)			1.15	**No-load Current**	20.8 A
NEMA Nom. Eff.	94.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.114 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps			132/68	**Temp. Rise @ S.F. Load**	88°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	9.59 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	82	86	87	87	87
Efficiency	91.5	94.4	94.8	94.6	94	93.2	94.1
Speed	1794	1788	1782	1776	1769	1761	1770
Line amperes	24.8	33.9	45.3	57.9	71.6	87.5	66.1

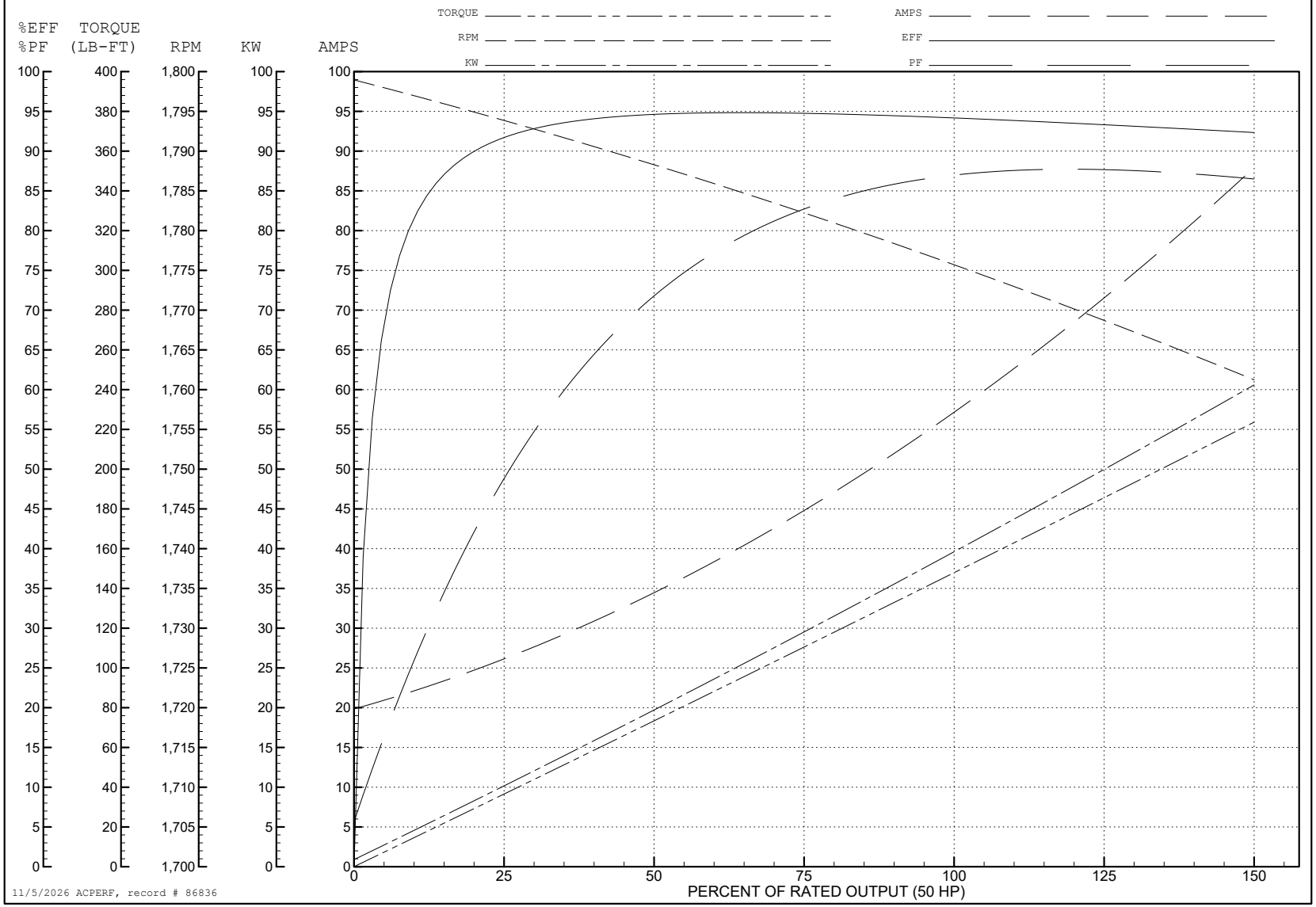
ABB Motors and Mechanical Inc.

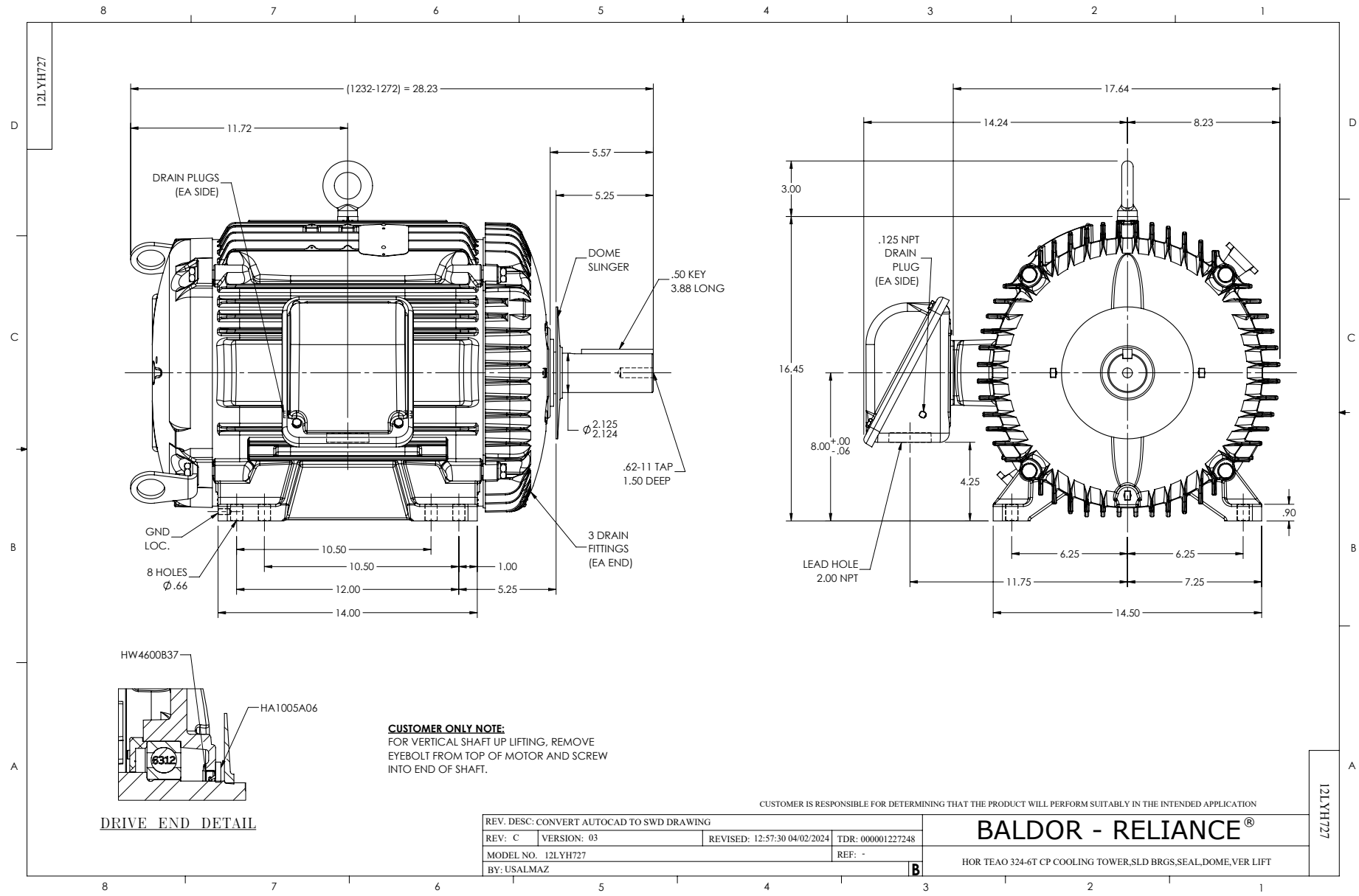
WINDING # 12WGZ279

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

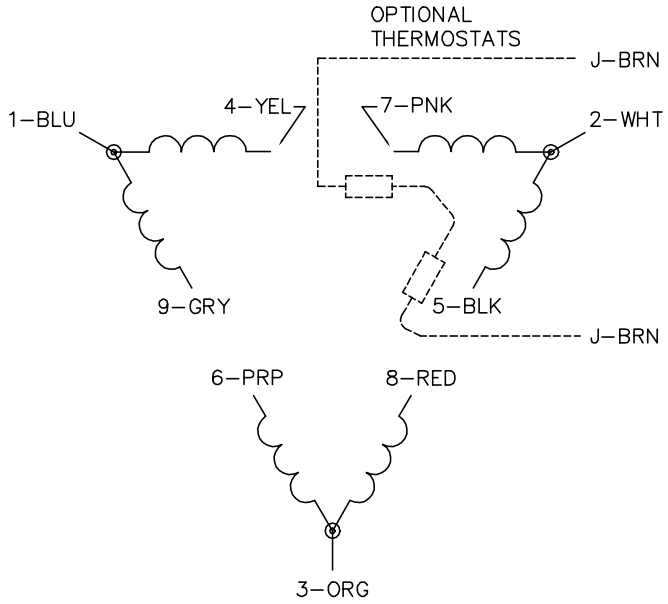
Typical performance - not guaranteed values.

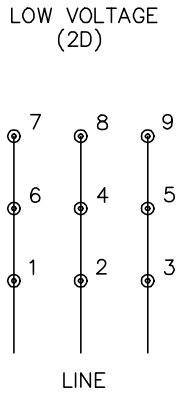
TORQUES(LB-FT): PO=475 PU=210 LR=240 LRA=413

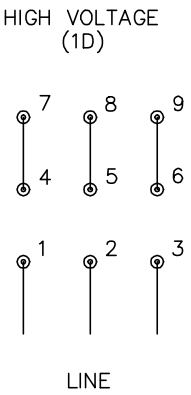



12LYH727
(1232-1272) = 28.23
11.72
5.57
5.25
DRAIN PLUGS (EA SIDE)
DOME SLINGER
.50 KEY 3.88 LONG
Ø2.125 2.124
.62-11 TAP 1.50 DEEP
GND LOC.
8 HOLES Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
3 DRAIN FITTINGS (EA END)
17.64
14.24
8.23
3.00
.125 NPT DRAIN PLUG (EA SIDE)
16.45
8.00 +.00 -.06
4.25
.90
LEAD HOLE 2.00 NPT
6.25
6.25
11.75
7.25
14.50
HW4600B37
HA1005A06
6312
DRIVE END DETAIL
CUSTOMER ONLY NOTE:
FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: C
VERSION: 03
REVISED: 12:57:30 04/02/2024
TDR: 000001227748
MODEL NO. 12LYH727
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEAO 324-6T CP COOLING TOWER,SLD BRGS,SEAL,DOME,VER LIFT
12LYH727

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1