ABB BALDOR RELIANCE

Customer information packet

ECTM4110T

40 AIR OVERHP, 1775RPM, 3PH, 60HZ, 324T, 1254
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	324T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	48.000 A @ 460.0 V
	96.000 A @ 230.0 V
	102.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	S
Type	AC
Mech. spec.	12H727
Base	
Status	PRD/A
Elec. spec.	12WGY276
Layout	12LYH727
Eff. date	05-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	08-17-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1254M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.38 IN
Power Factor	82
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 Extension Location	Pulley End
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 (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP2178											
CAT.NO.	ECTM4110T										
SPEC.	12H727Y276G1										
HP	40 AIR OVER										
VOLTS	230/460										
AMP	96/48										
RPM	1775										
FRAME	324T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A		**CL**	F			
NEMA-NOM-EFF	94.1	**PF**	82								
RATING	40C AMB-CONT										
CC											
DE	6312		**ODE**	6311							
ENCL	TEAO	**SN**									
	2050 FPM @ 520CFM										

AC Induction Motor Performance Data
Record # 35502
Typical performance - not guaranteed values

Winding: 12WGY276-R003	**Type:** 1254M	**Enclosure:** TEAO

Nameplate Data			
Rated Output (HP)			40 AIR OVER
Volts			230/460
Full Load Amps			96/48
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.1	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	118 LB-FT
Start Configuration	direct on line
Breakdown Torque	386 LB-FT
Pull-up Torque	193 LB-FT
Locked-rotor Torque	216 LB-FT
Starting Current	338 A
No-load Current	19.9 A
Line-line Res. @ 25ºC	0.14898 Ω
Temp. Rise @ Rated Load	54°C
Temp. Rise @ S.F. Load	64°C
Locked-rotor Power Factor	27
Rotor inertia	7.19 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	69	78	82	85	85	84
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1	94
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8	54.8

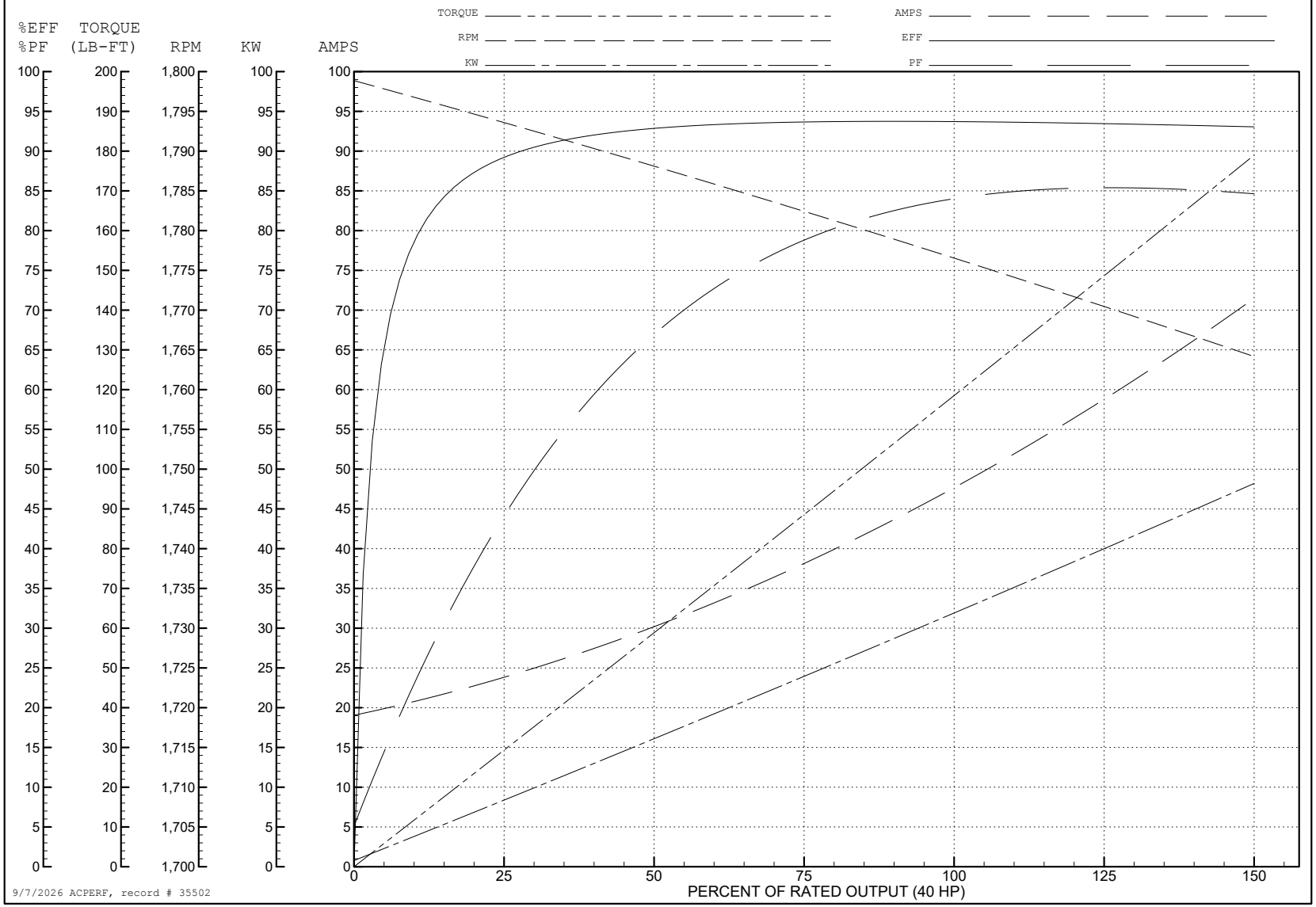
ABB Motors and Mechanical Inc.

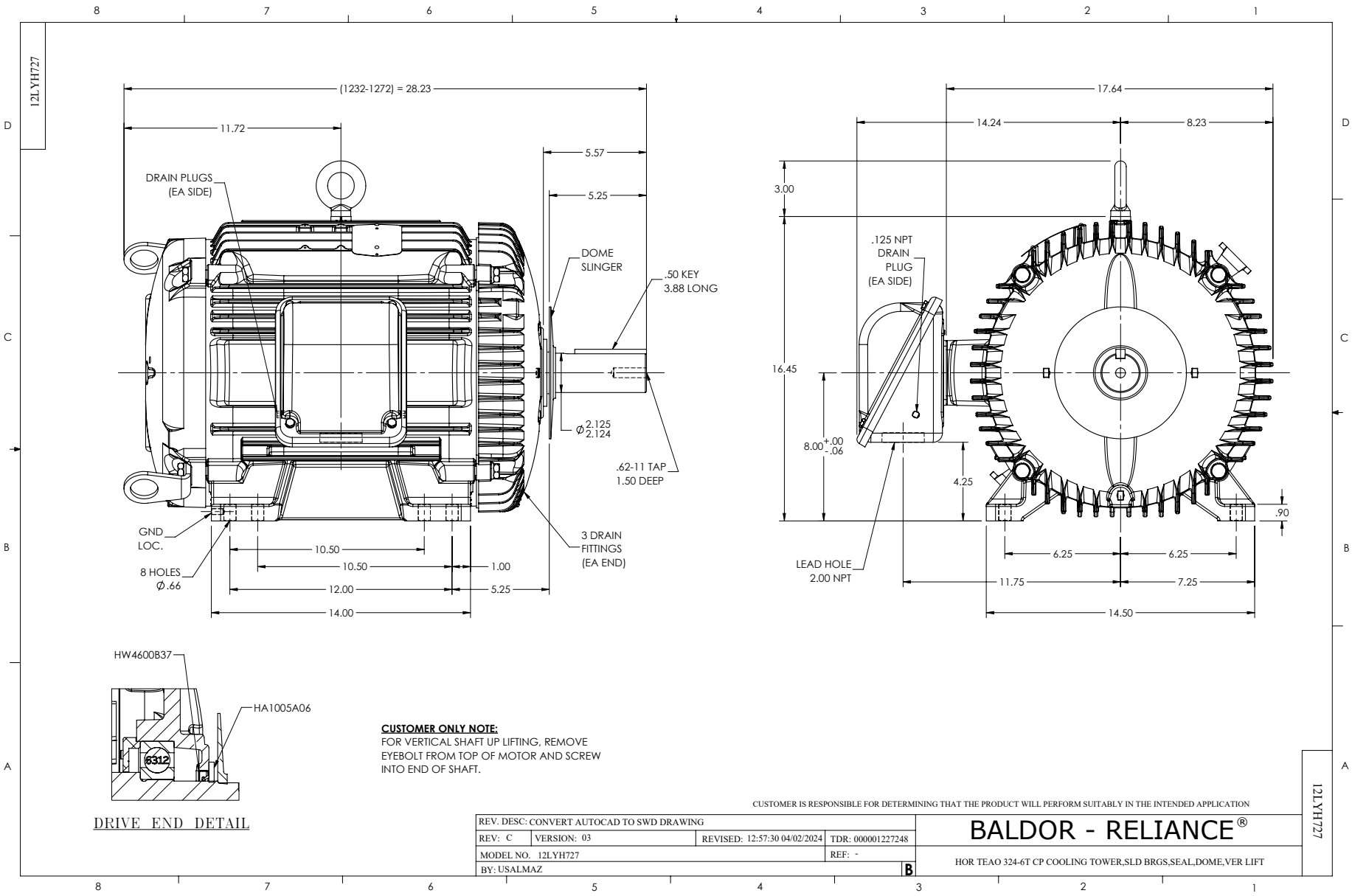
WINDING # 12WGY276

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

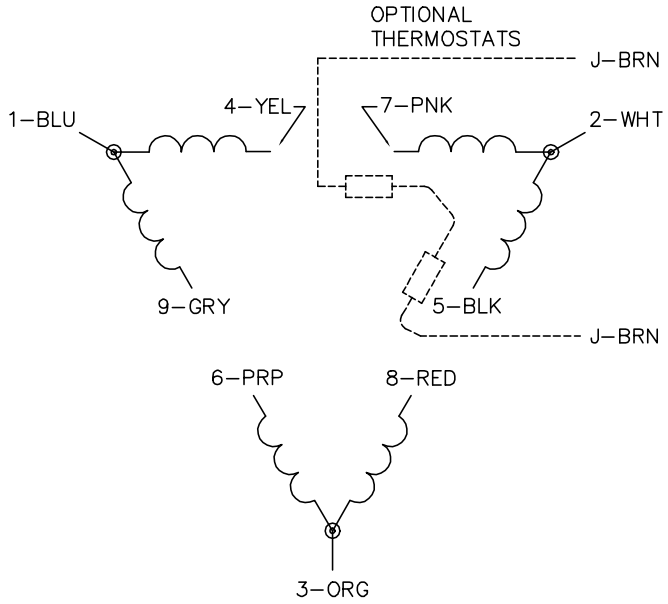
TORQUES(LB-FT): PO=386 PU=193 LR=216 LRA=338

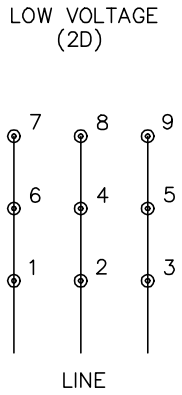
Typical performance - not guaranteed values.

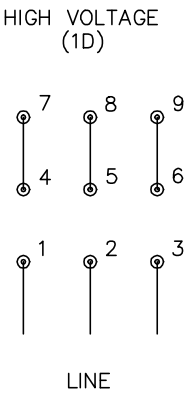



12LYH727
(1232-1272) = 28.23
11.72
5.57
5.25
DRAIN PLUGS (EA SIDE)
DOME SLINGER
.50 KEY 3.88 LONG
Ø2.125 2.124
.62-11 TAP 1.50 DEEP
GND LOC.
8 HOLES Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
3 DRAIN FITTINGS (EA END)
17.64
14.24
8.23
3.00
.125 NPT DRAIN PLUG (EA SIDE)
16.45
8.00 +.00 -.06
4.25
.90
LEAD 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		
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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