ABB BALDOR RELIANCE

Customer information packet

CTM4110T

40 AIR OVERHP, 1775RPM, 3PH, 60HZ, 324T, 1248
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	94.000 A @ 230.0 V
	47.000 A @ 460.0 V
	101.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	12H727
Base	
Status	PRD/A
Elec. spec.	12WGX276
Layout	12LYH727
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	08-17-2015

High Voltage Full Load Amps	47.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
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	1248M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.38 IN
Power Factor	85
Product Family	Chemical Processing (Not DC)
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

NP1258										
CAT.NO.	CTM4110T									
SPEC.	12H727X276H2									
HP	40 AIR OVER									
VOLTS	230/460									
AMP	94/47									
RPM	1775									
FRAME	324T	**HZ**	60		**PH**	3				
SER.F.	1.15	**CODE**	G	**DES**	B		**CL**	F		
NEMA-NOM-EFF	93	**PF**	85							
RATING	40C AMB-CONT									
CC										
DE	6312	**ODE**	6311							
ENCL	TEAO	**SN**								
	2050 FPM @ 520CFM									

AC Induction Motor Performance Data
Record # 52135
Typical performance - not guaranteed values

Winding: 12WGX276-R006	**Type:** 1248M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			40 AIR OVER	**Full Load Torque**	119 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			94/47	**Breakdown Torque**	337 LB-FT
R.P.M.			1775	**Pull-up Torque**	139 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	171 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	300 A
Service Factor (S.F.)			1.15	**No-load Current**	17.3 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.158 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	27
				Rotor inertia	6.39 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	82	85	87	86	86
Efficiency	88.1	92.4	93.2	93	92.4	91.5	92.6
Speed	1794	1788	1782	1775	1768	1759	1771
Line amperes	20.5	27.7	36.9	47.4	58.6	71.1	54.1

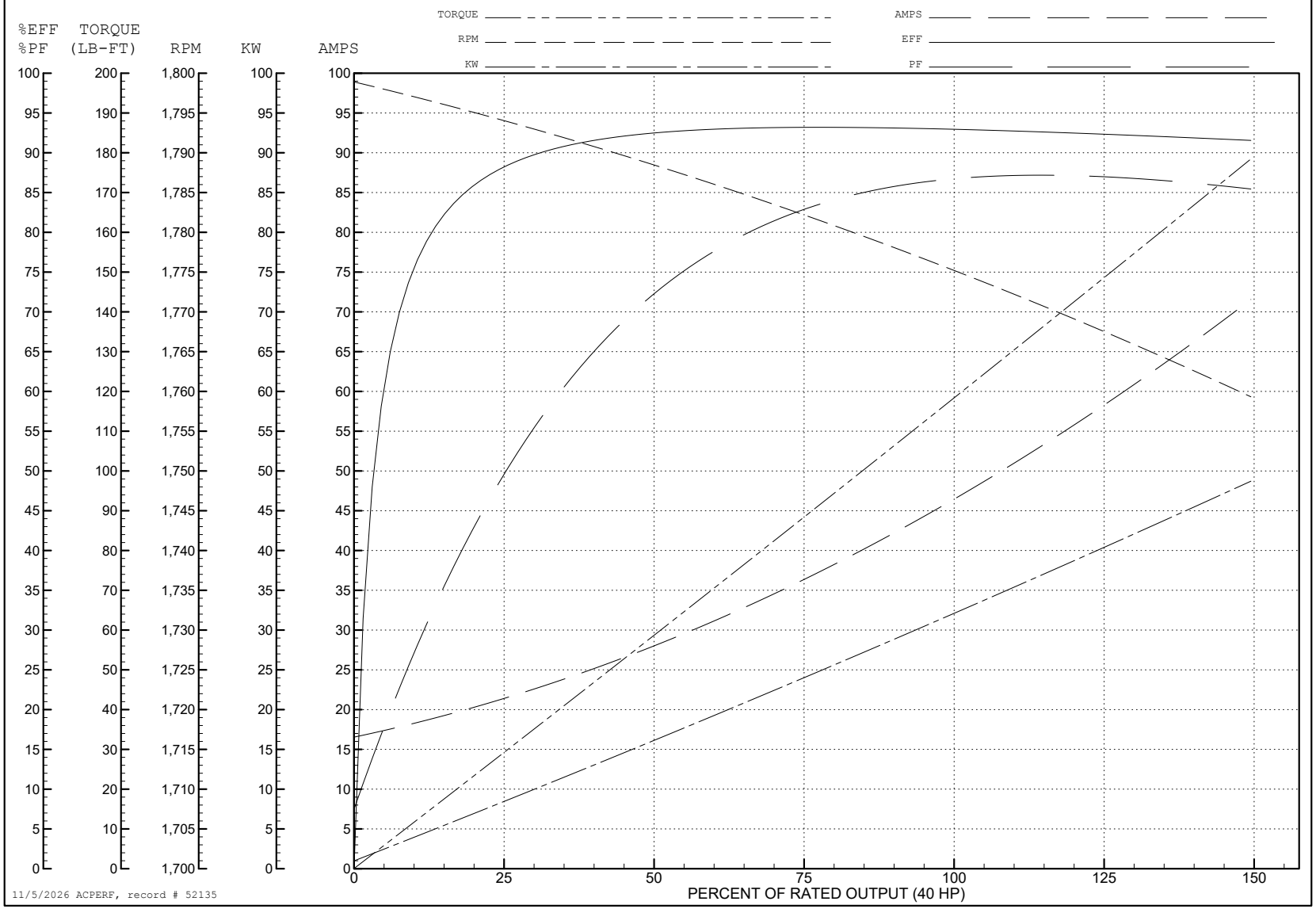
ABB Motors and Mechanical Inc.

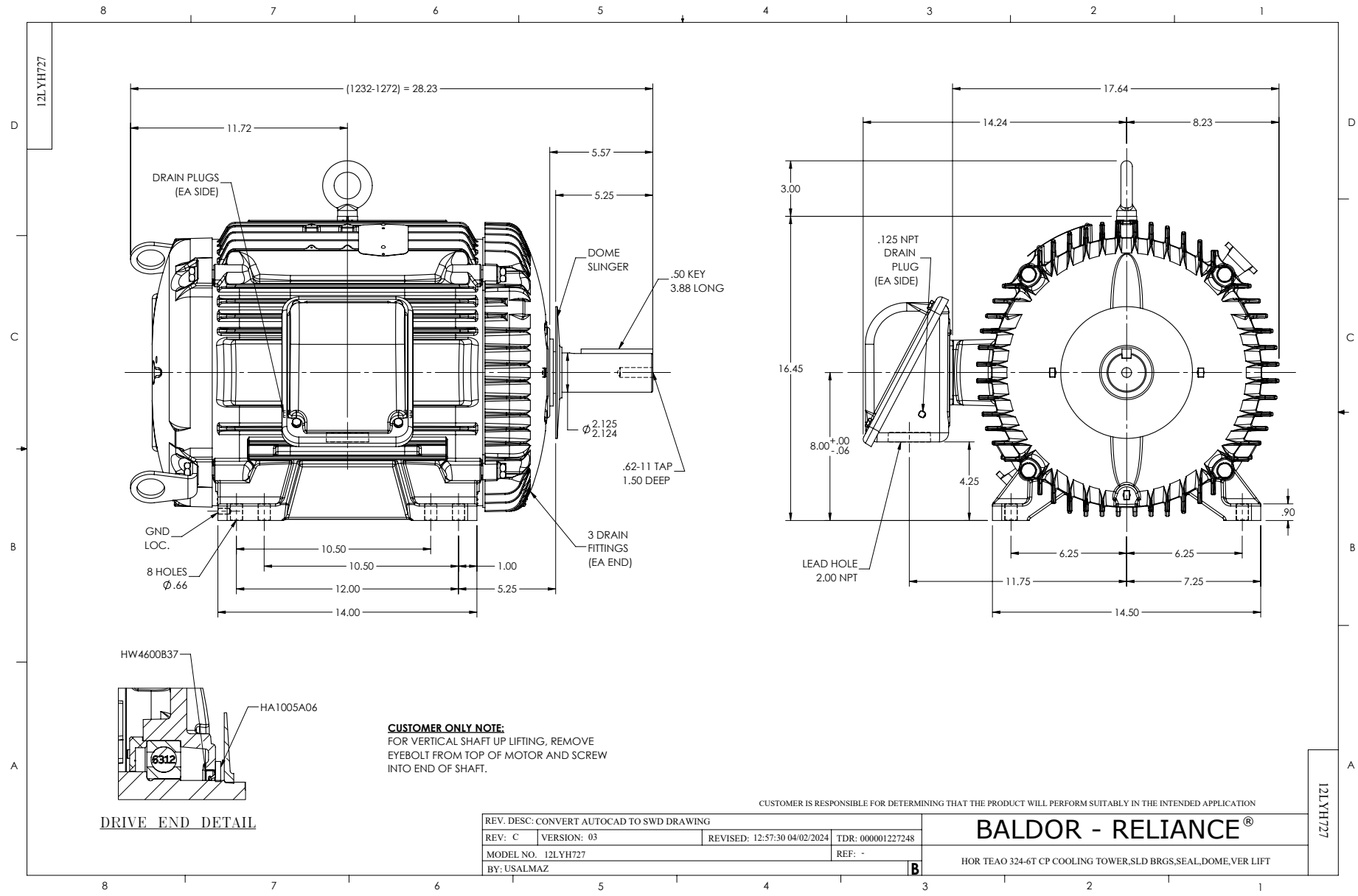
WINDING # 12WGX276

40 HP 3 PH 60 HZ 1775 RPM 460 V 1248M

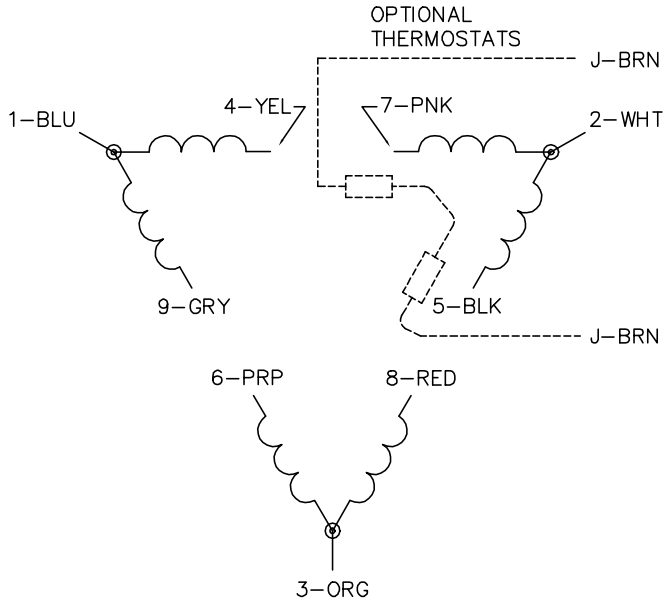
Typical performance - not guaranteed values.

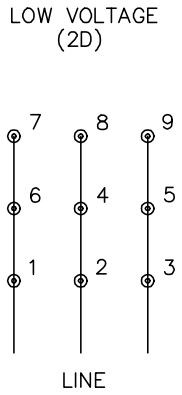
TORQUES(LB-FT): PO=337 PU=139 LR=171 LRA=300

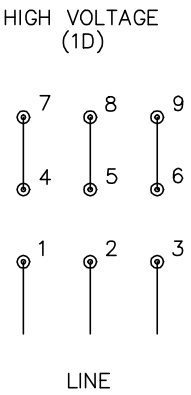



12LYH727
(1232-1272) = 28.23
11.72
5.57
5.25
DRAIN PLUGS (EA SIDE)
DOME SLINGER
.50 KEY 3.88 LONG
Ø2.125 2.124
.62-11 TAP 1.50 DEEP
GND LOC.
8 HOLES Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
3 DRAIN FITTINGS (EA END)
17.64
14.24
8.23
3.00
.125 NPT DRAIN PLUG (EA SIDE)
16.45
8.00 +.00 -.06
4.25
.90
LEAD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