ABB BALDOR RELIANCE

Customer information packet

CTM2332T

10 AIR OVERHP, 1175RPM, 3PH, 60HZ, 256T, 0946
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	256T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	37.000 A @ 208.0 V
	28.800 A @ 230.0 V
	14.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	U
Type	AC
Mech. spec.	09L877
Base	
Status	PRD/A
Elec. spec.	09WGX829
Layout	09LYL877
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	08-14-2015

High Voltage Full Load Amps	14.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0946M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.00 IN
Power Factor	73
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1175 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

NP1258									
CAT.NO.	CTM2332T								
SPEC.	09L877X829H2								
HP	10 AIR OVER								
VOLTS	230/460								
AMP	28.8/14.4								
RPM	1175								
FRAME	256T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	73						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6208						
ENCL	TEAO	**SN**							
	1800 FPM @ 250CFM								

AC Induction Motor Performance Data
Record # 52111
Typical performance - not guaranteed values

Winding: 09WGX829-R030	**Type:** 0946M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10 AIR OVER	**Full Load Torque**	44.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			28.8/14.4	**Breakdown Torque**	139 LB-FT
R.P.M.			1175	**Pull-up Torque**	53.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	76.4 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	86.1 A
Service Factor (S.F.)			1.15	**No-load Current**	7.04 A
NEMA Nom. Eff.	89.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.83 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	26
				Rotor inertia	3.7 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	56	67	72	75	75	74
Efficiency	82.9	88.6	89.9	89.9	89.2	87.1	89.5
Speed	1195	1190	1184	1178	1171	1163	1174
Line amperes	7.82	9.42	11.61	14.38	17.56	21.2	16.29

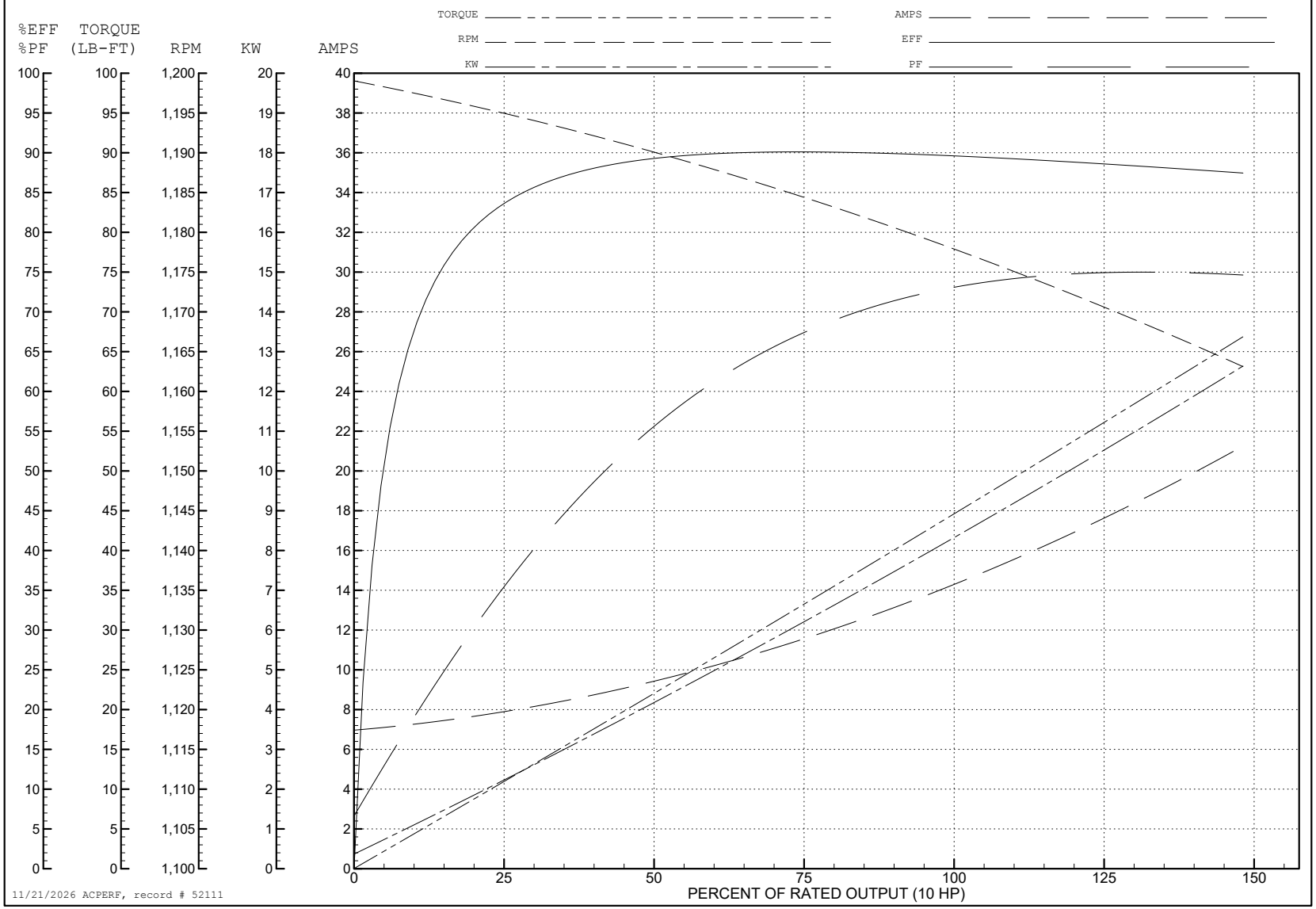
ABB Motors and Mechanical Inc.

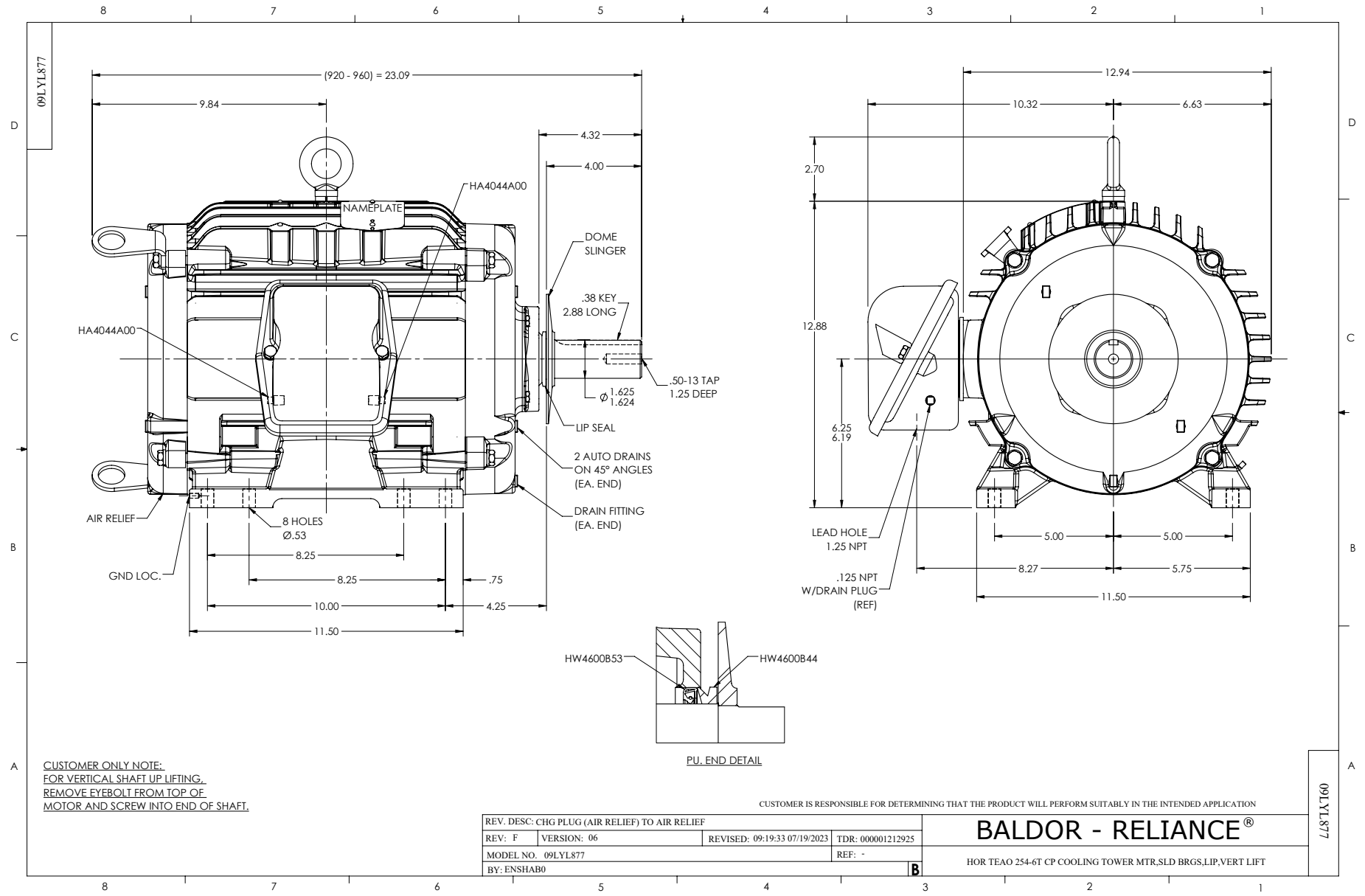
WINDING # 09WGX829

10 HP 3 PH 60 HZ 1175 RPM 460 V 0946M

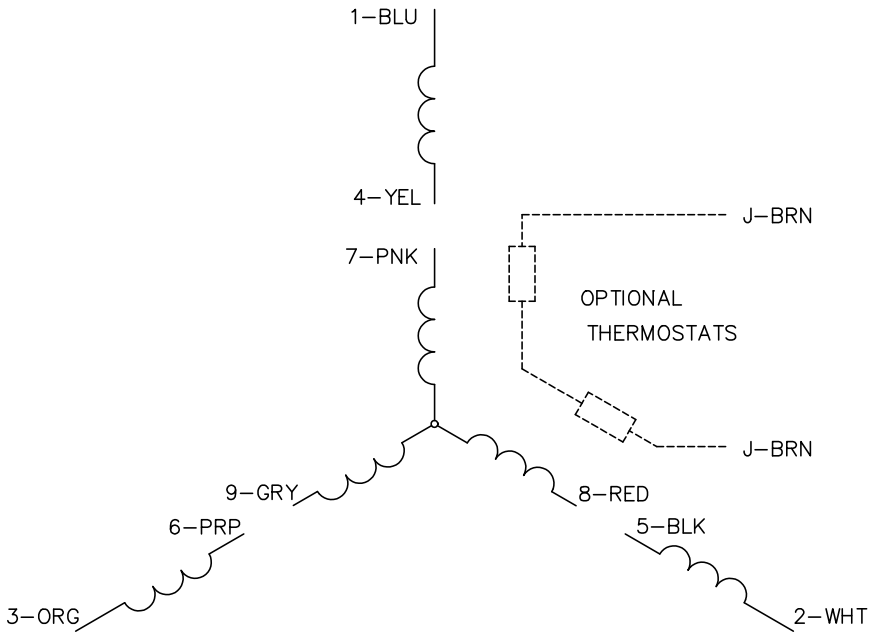
Typical performance - not guaranteed values.

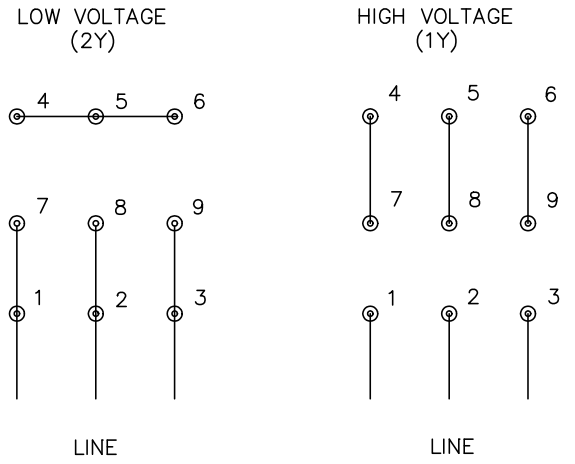
TORQUES(LB-FT): PO=139 PU=53.5 LR=76.4 LRA=86.1




09LYL877
(920 - 960) = 23.09
9.84
4.32
4.00
HA4044A00
NAMEPLATE
DOME SLINGER
.38 KEY
2.88 LONG
HA4044A00
.50-13 TAP
1.25 DEEP
Ø 1.625
1.624
LIP SEAL
2 AUTO DRAINS
ON 45° ANGLES
(EA. END)
DRAIN FITTING
(EA. END)
AIR RELIEF
8 HOLES
Ø.53
GND LOC.
8.25
8.25
.75
10.00
4.25
11.50
12.94
10.32
6.63
2.70
12.88
6.25
6.19
LEAD HOLE
1.25 NPT
.125 NPT
W/DRAIN PLUG
(REF)
5.00
5.00
8.27
5.75
11.50
HW4600B53
HW4600B44
PU. 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: CHG PLUG (AIR RELIEF) TO AIR RELIEF
REV: F
VERSION: 06
REVISED: 09:19:33 07/19/2023
TDR: 000001212925
MODEL NO. 09LYL877
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HOR TEAO 254-6T CP COOLING TOWER MTR,SLD BRGS,LIP,VERT LIFT
09LYL877

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS