ABB BALDOR RELIANCE

Customer information packet

ECTM2333T

15 AIR OVERHP, 1765RPM, 3PH, 60HZ, 254T, 0944
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	254T
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	15.000 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 EEV
	UR
	CSA
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	18.100 A @ 460.0 V
	36.200 A @ 230.0 V
	38.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	09L877
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYL877
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

High Voltage Full Load Amps	18.1 a
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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.09 IN
Power Factor	84
Product Family	Super-E Chemical Processing
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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.	ECTM2333T								
SPEC.	09L877T597G1								
HP	15 AIR OVER								
VOLTS	230/460								
AMP	36.2/18.1								
RPM	1765								
FRAME	254T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
NEMA-NOM-EFF	92.4	**PF**	84						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6208						
ENCL	TEAO	**SN**							
	1800 FPM @ 250CFM								

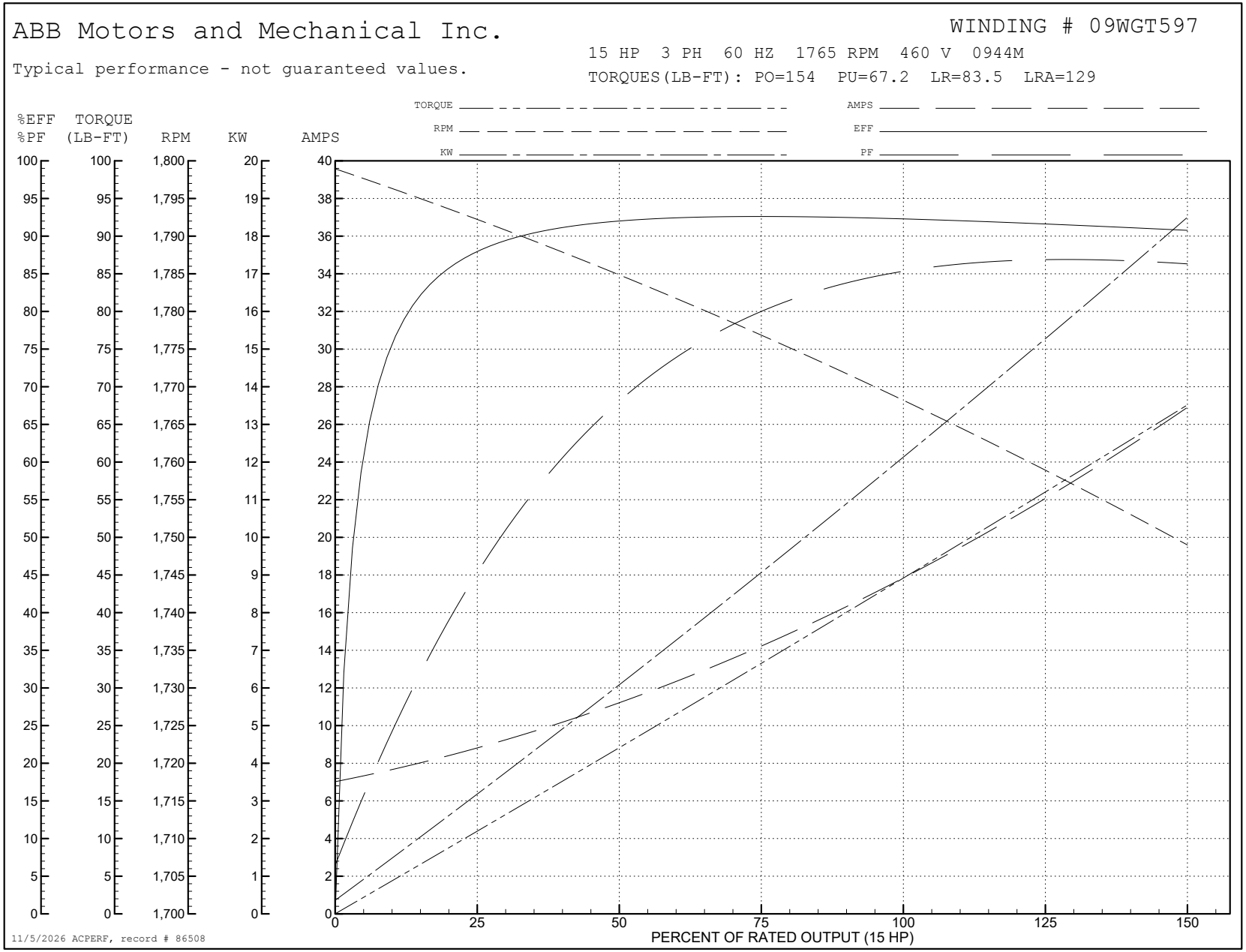
AC Induction Motor Performance Data
Record # 86508
Preliminary Data Sheet

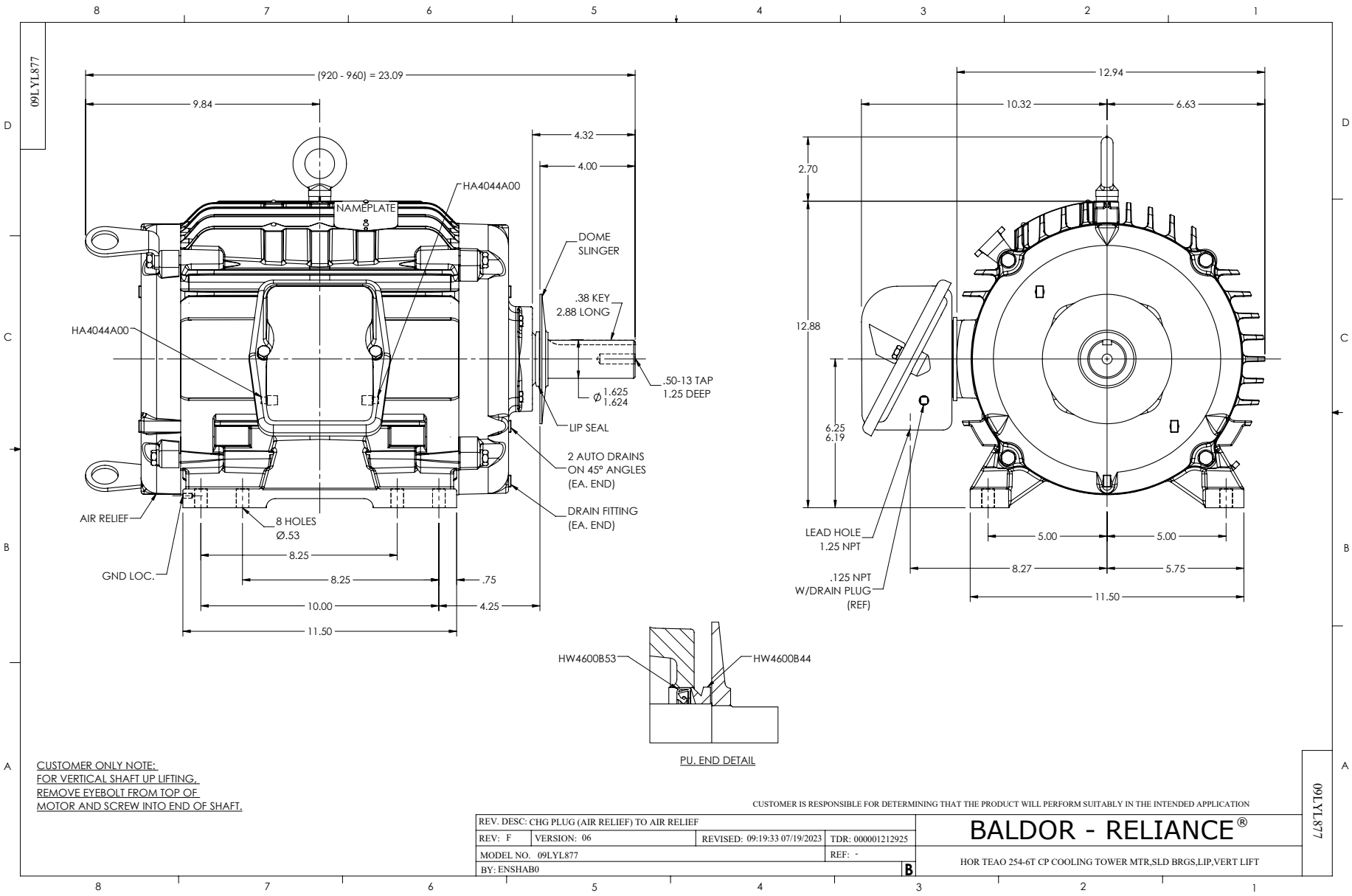
Winding: 09WGT597-R004	**Type:** 0944M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15 AIR OVER	**Full Load Torque**	44.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36.2/18.1	**Breakdown Torque**	154 LB-FT
R.P.M.			1765	**Pull-up Torque**	67.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	83.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	129 A
Service Factor (S.F.)			1.15	**No-load Current**	7.32 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps			41.0/20.5	**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	1.92 lb-ft²

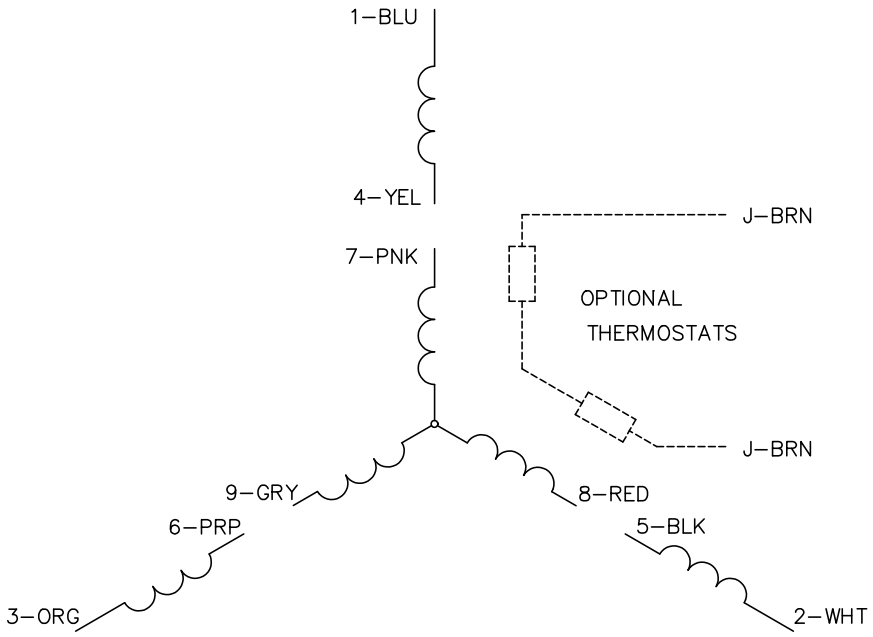
Load Characteristics 460 V, 60 Hz, 15 HP

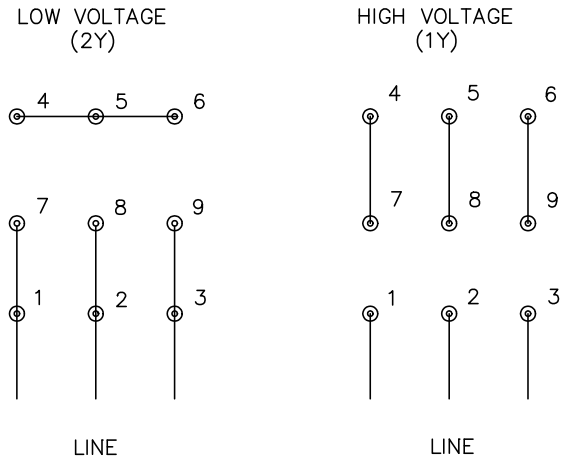
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5


ABB Motors and Mechanical Inc.
WINDING # 09WGT597
15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
11/5/2026 ACPERF, record # 86508
PERCENT OF RATED OUTPUT (15 HP)


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