ABB BALDOR RELIANCE

Customer information packet

ECTM2276T

7.5 AIR OVERHP, 1180RPM, 3PH, 60HZ, 254T, 095
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	7.500 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	UR
	CSA
	CSA EEV
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	22.000 A @ 230.0 V
	11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	W
Type	AC
Mech. spec.	09L877
Base	
Status	PRD/A
Elec. spec.	09WGT118
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	11.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.00 IN
Power Factor	70
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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.	ECTM2276T							
SPEC.	09L877T118G1							
HP	7.5 AIR OVER							
VOLTS	230/460							
AMP	22/11							
RPM	1180							
FRAME	254T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F	
NEMA-NOM-EFF	91	**PF**	70					
RATING	40C AMB-CONT							
CC								
DE	6309	**ODE**	6208					
ENCL	TEAO	**SN**						
	1800 FPM @ 250CFM							

AC Induction Motor Performance Data
Record # 47559
Typical performance - not guaranteed values

Winding: 09WGT118-R003	**Type:** 0954M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5 AIR OVER	**Full Load Torque**	33.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	113 LB-FT
R.P.M.			1180	**Pull-up Torque**	41.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	74.8 A
Service Factor (S.F.)			1.15	**No-load Current**	6.06 A
NEMA Nom. Eff.	91	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.87037 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	63	70	74	75	72
Efficiency	83.2	89.4	90.9	91.1	90.7	89.9	90.9
Speed	1196.5	1192.4	1188.3	1183.7	1178.7	1173.2	1181
Line amperes	6.49	7.59	9.09	11	13.1	15.5	12.3

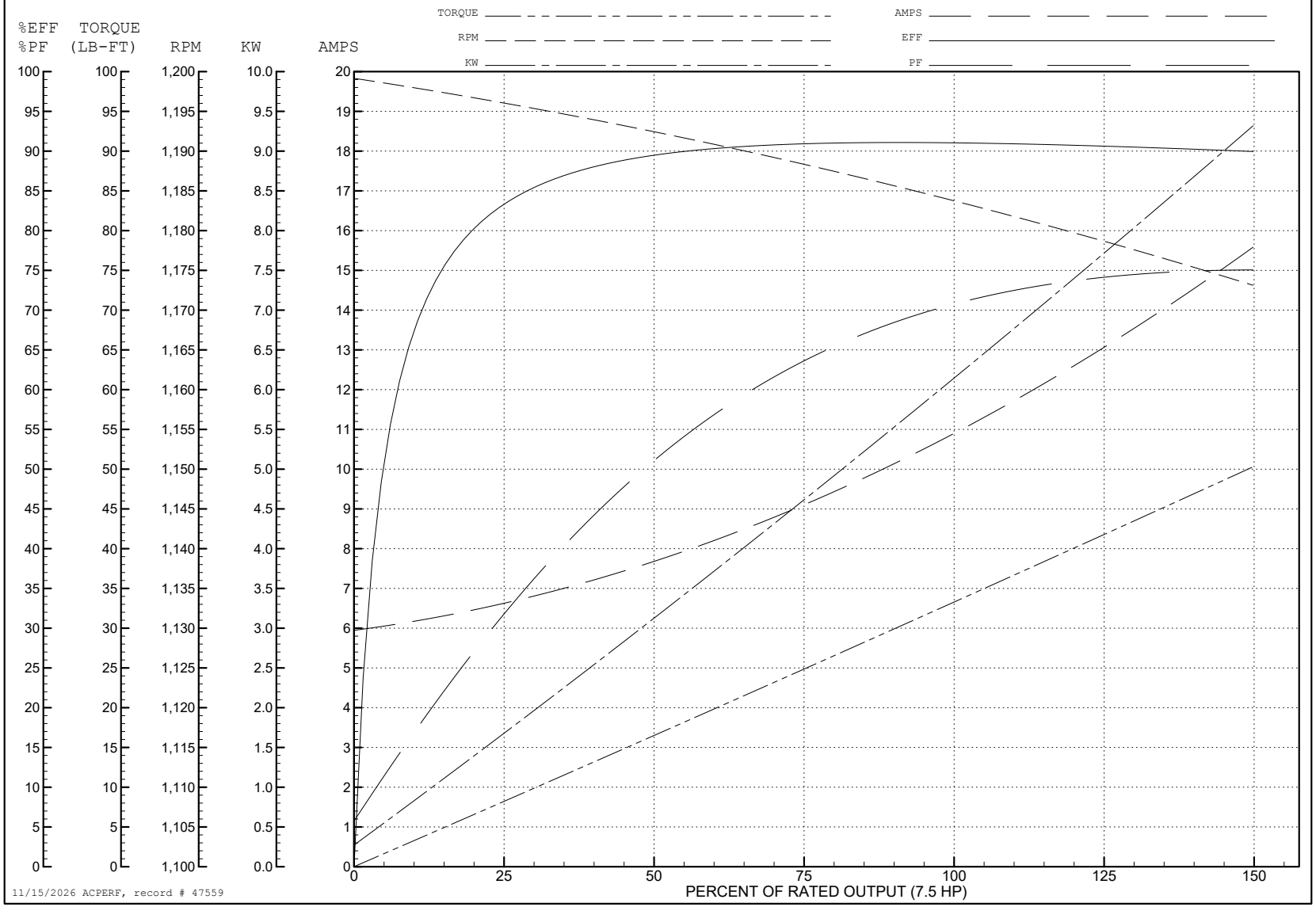
ABB Motors and Mechanical Inc.

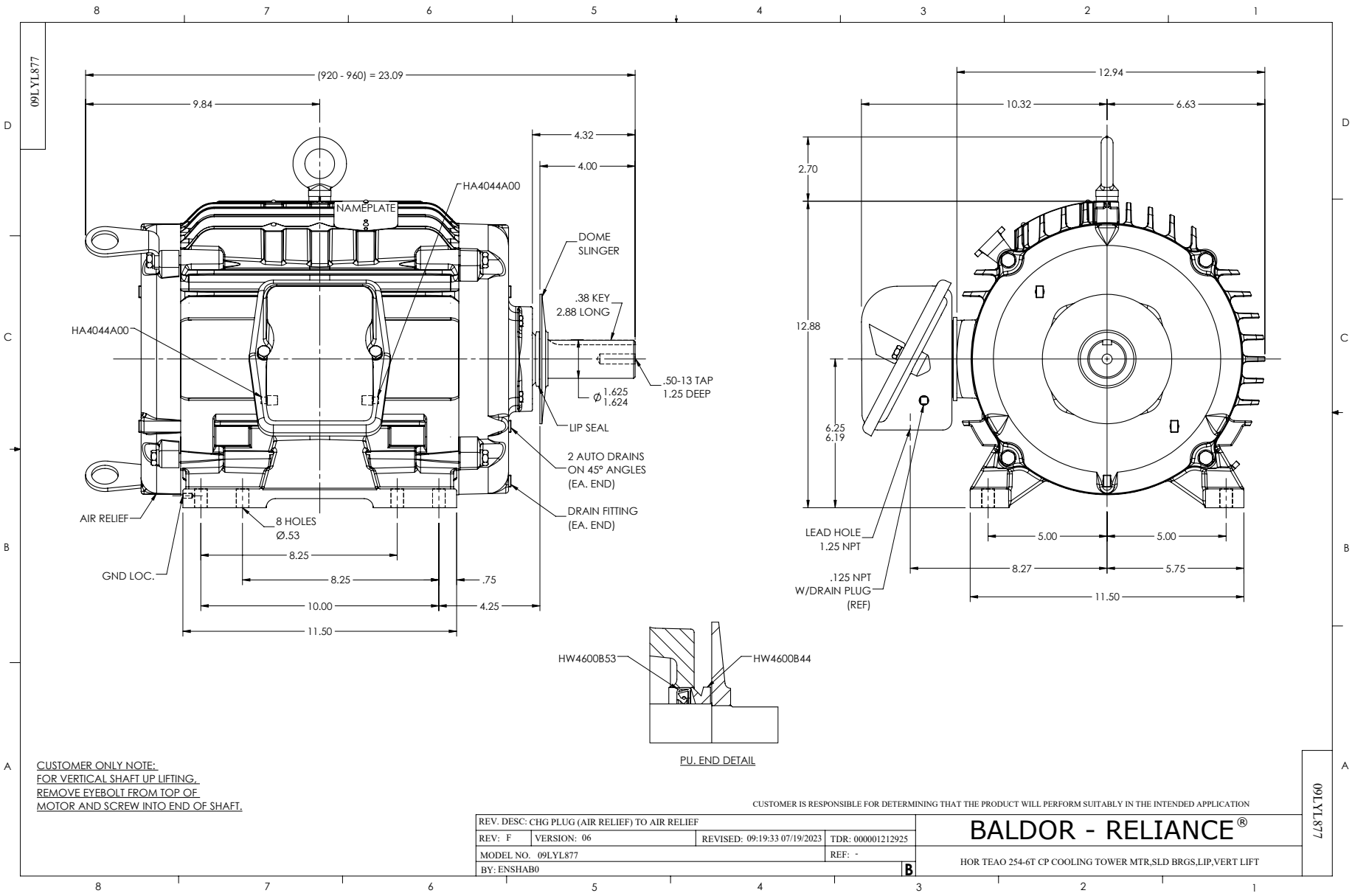
WINDING # 09WGT118

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

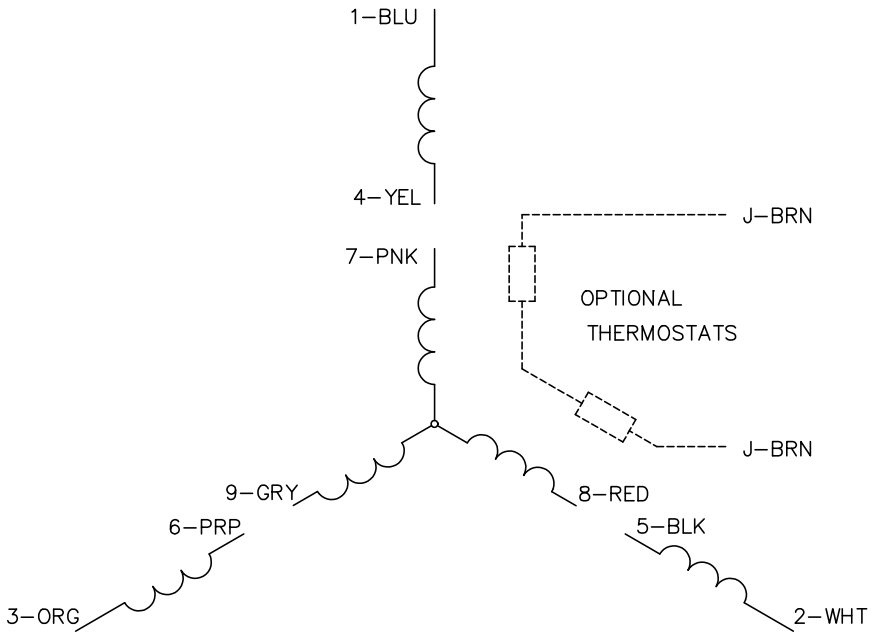
Typical performance - not guaranteed values.

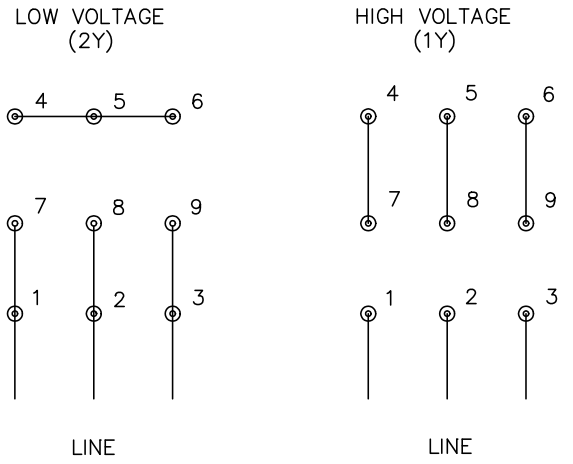
TORQUES(LB-FT): PO=113 PU=41.3 LR=57.4 LRA=74.8




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