BALDOR • RELIANCE

Customer information packet

HBAO2394T

15 AIR OVERHP, 3525RPM, 3PH, 60HZ, 254T, 0934
Class - None
Division - Not Applicable

12/22/2025 4:21:08 PM

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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA_PREMIUM
	WEEE
	CURUSEEV
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	17.200 A @ 460.0 V
	34.400 A @ 230.0 V
	36.500 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	J
Type	AC
Mech. spec.	09M871
Base	
Status	PRD/A
Elec. spec.	09WGY599
Layout	09LYM871
Eff. date	09-30-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	09-21-2021

High Voltage Full Load Amps	17.2 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.72 IN
Power Factor	88
Product Family	General Purpose
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	3525 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

NP4312A05M01L

CAT #	HBAO2394T		**SER #**			**CC**		**WGT**	239	**LBS**			
SPEC	09M871Y599G2		**RATING**	40C AMB-CONT									
HZ	**VOLTS**		**AMPS**	**RPM**		**HP**		**SF**		**NEMA NOM EFF**			
60	230/460		34.4/17.2			3525		15AO		1.15		91.7	
PH	3	**CL**	H	**CODE**	H	**DES**	A	**ENCL**	TEAO	**IP**	54	**PF**	88
%	AIR OVER												
DE BRG	6309		**ODE BRG**	6208				**FRAME**	254T				
INV TYPE:	**VPWM**		**SL HZ**	1.25		**CHP**	60	**TO**	90	1.5:1			
WK2	0.87		**LB FT2**	**MAX RPM**	5400	**CT**	6	**TO**	60	10:1			
11.8/5.9			**VT**	3		**TO**	60	20:1					
SFA 39.2/19.6													

YR:

AC Induction Motor Performance Data
Record # 95849
Typical performance - not guaranteed values

Winding: 09WGY599-R041	**Type:** 0934M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15 AIR OVER	**Full Load Torque**	22.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			34.4/17.2	**Breakdown Torque**	103 LB-FT
R.P.M.			3525	**Pull-up Torque**	33 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	41 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	128 A
Service Factor (S.F.)			1.15	**No-load Current**	5.9 A
NEMA Nom. Eff.	91.7	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.559 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps			39.2/19.6	**Temp. Rise @ S.F. Load**	66°C
				Locked-rotor Power Factor	28.7
				Rotor inertia	0.868 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	78	86	88	91	91	90
Efficiency	86.2	90.8	91.9	91.9	91.5	90.7	91.7
Speed	3583	3567	3550	3533	3514	3493	3522
Line amperes	7.2	10	13.4	17.2	21.2	25.5	19.6

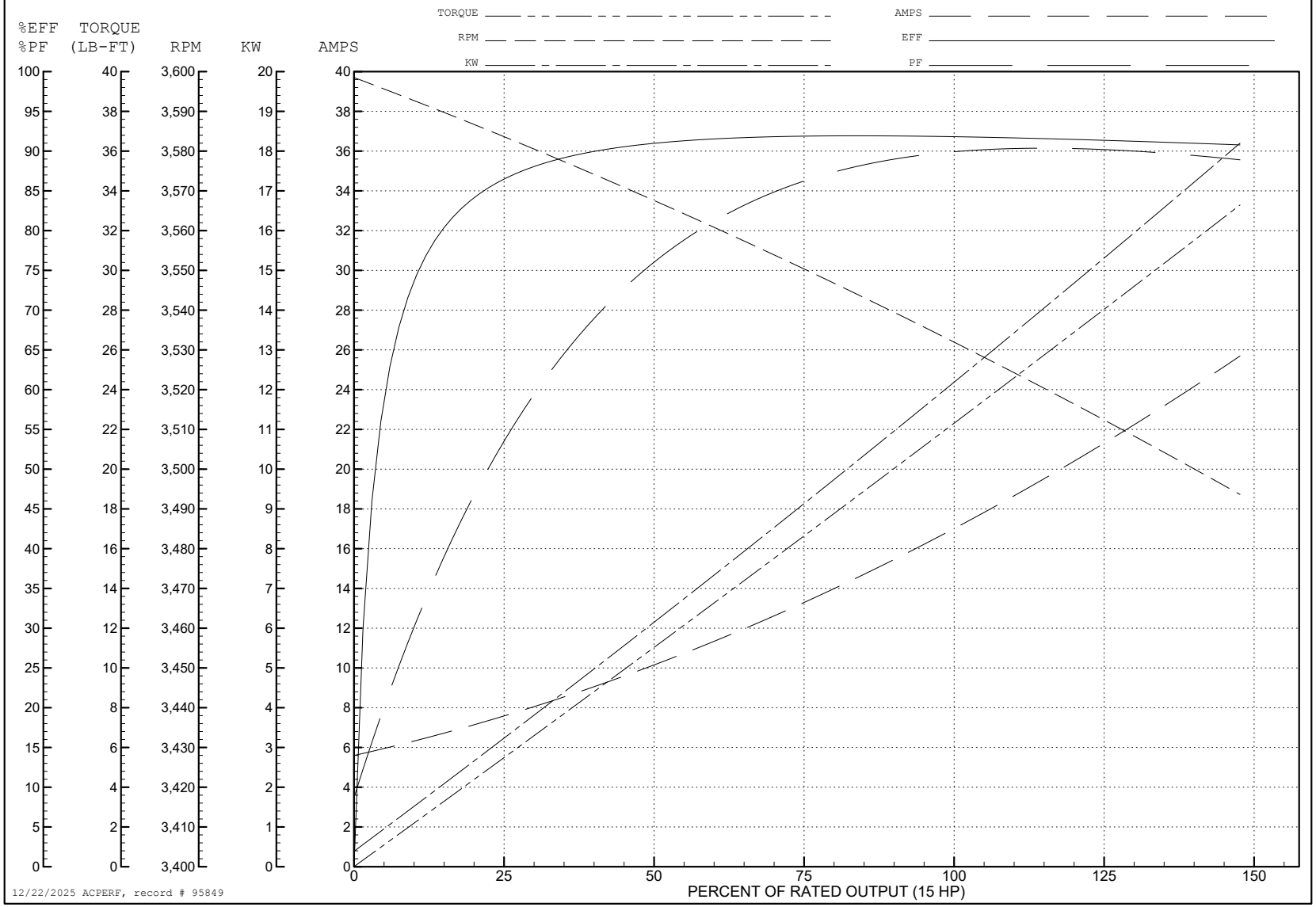
ABB Motors and Mechanical Inc.

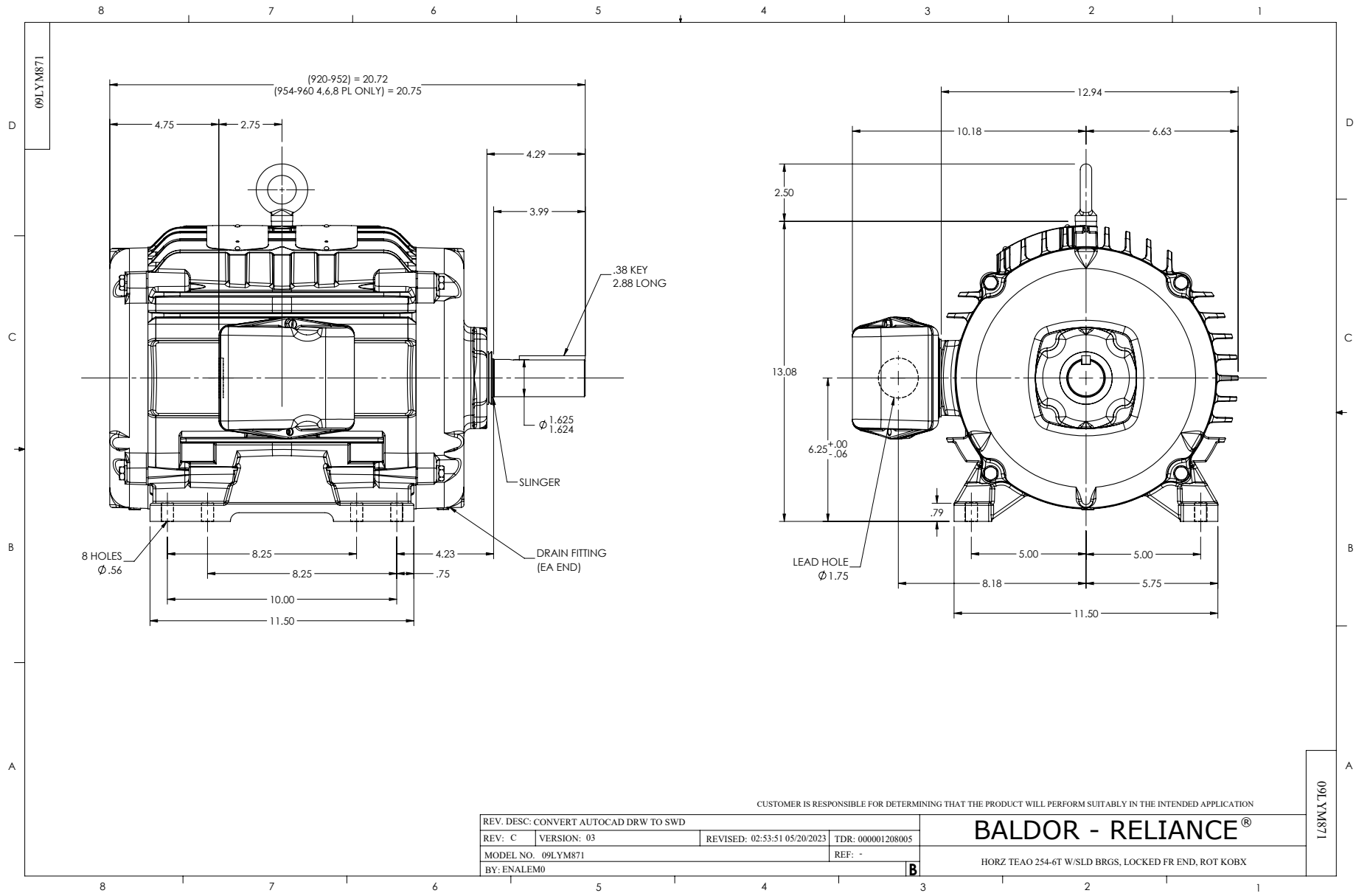
WINDING # 09WGY599

15 HP 3 PH 60 HZ 3525 RPM 460 V 0934M

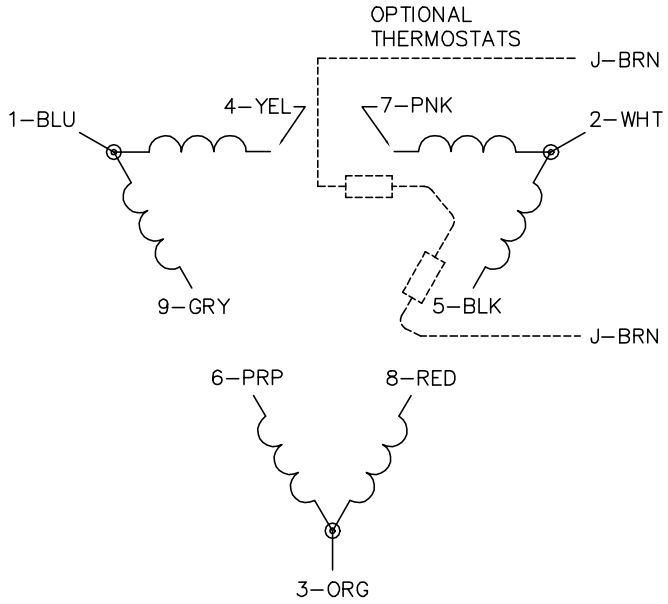
Typical performance - not guaranteed values.

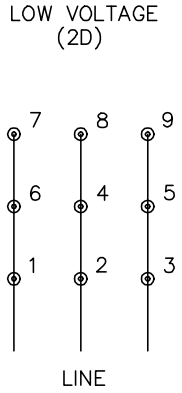
TORQUES(LB-FT): PO=103 PU=33 LR=41 LRA=128

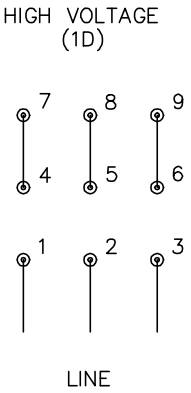



09LYM871
(920-952) = 20.72
(954-960 4,6,8 PL ONLY) = 20.75
4.75
2.75
4.29
3.99
.38 KEY
2.88 LONG
Ø 1.625
1.624
SLINGER
8 HOLES
Ø.56
8.25
8.25
4.23
.75
DRAIN FITTING
(EA END)
10.00
11.50
12.94
10.18
6.63
2.50
13.08
6.25 +.00 -.06
.79
LEAD HOLE
Ø1.75
5.00
5.00
8.18
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: C
VERSION: 03
REVISED: 02:53:51 05/20/2023
TDR: 000001208005
MODEL NO. 09LYM871
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEAO 254-6T W/SLD BRGS, LOCKED FR END, ROT KOBX
09LYM871

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