

ABB BALDOR RELIANCE III

Customer information packet

HBAO2394T

15 AIR OVERHP, 3525RPM, 3PH, 60HZ, 254T, 0934

Class - None

Division - Not Applicable

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. @ 25°C		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

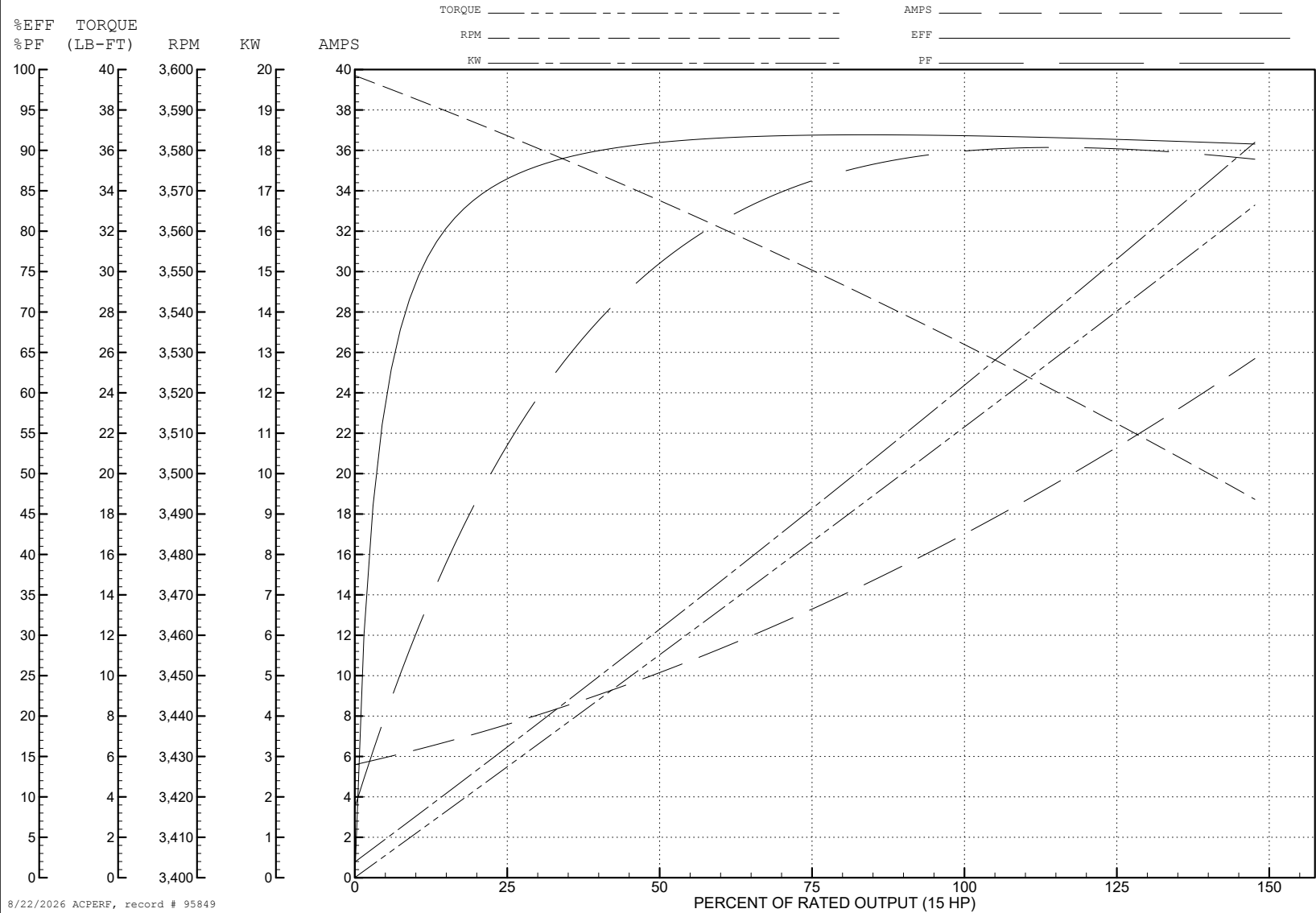
ABB Motors and Mechanical Inc.

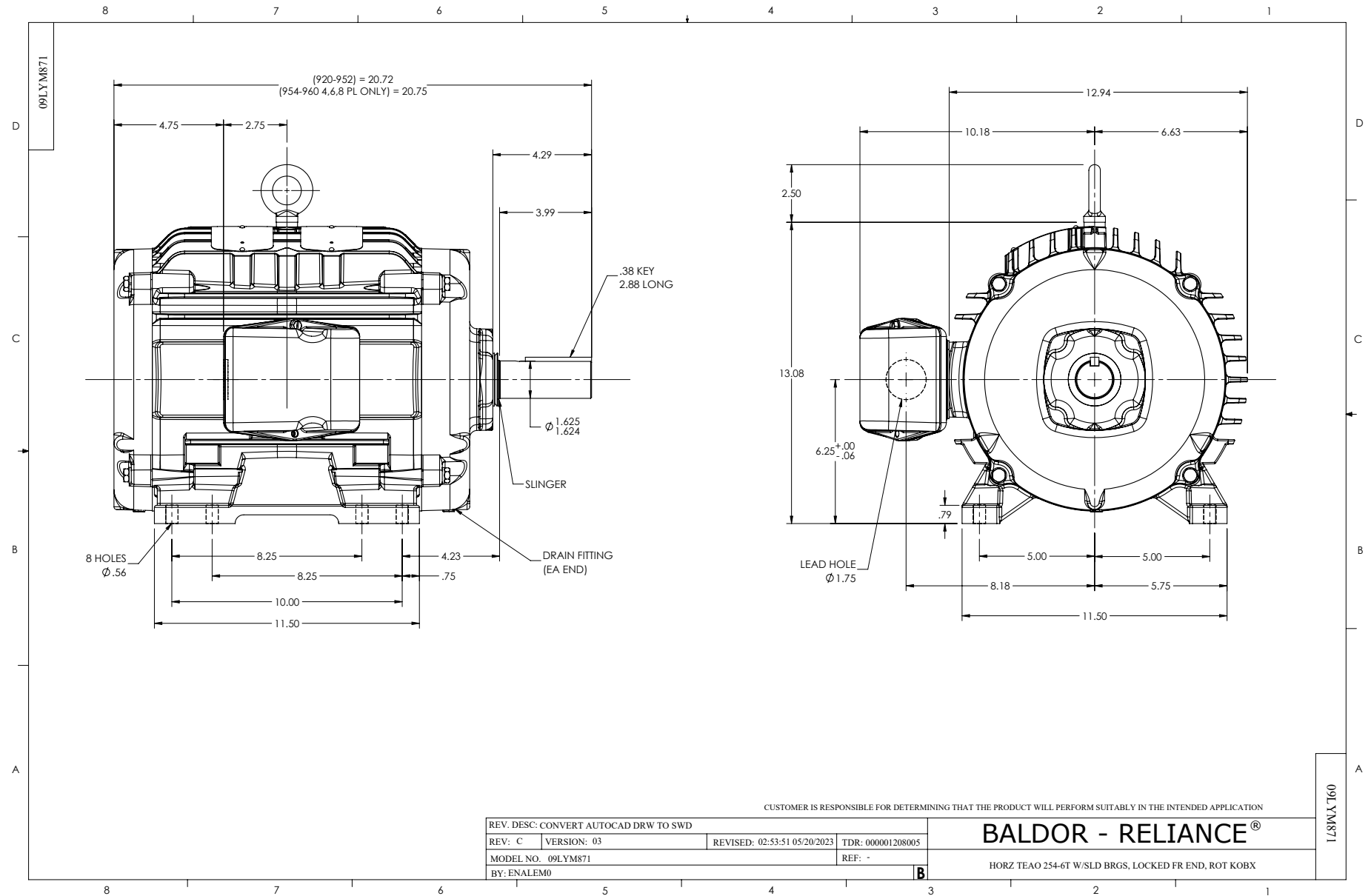
WINDING # 09WGY599

Typical performance - not guaranteed values.

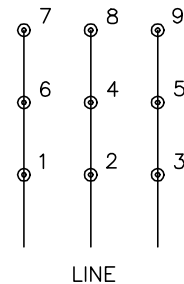
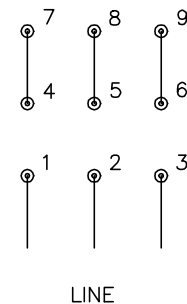
15 HP 3 PH 60 HZ 3525 RPM 460 V 0934M

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





CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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