ABB BALDOR RELIANCE

Customer information packet

AOM25904T

5HP, 870RPM, 3PH, 60HZ, 254T, 3936M, TEAO, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	18.400 A @ 230.0 V
	18.600 A @ 208.0 V
	9.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.2 a

Part Detail

Revision	AJ
Type	AC
Mech. spec.	39J95
Base	
Status	PRD/A
Elec. spec.	39WGZ042
Layout	39LYJ095
Eff. date	04-09-2024
CD Diagram	CD0005
Poles	08
Leads	9#12 36" LG Y
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard 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	3936M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	19.63 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	885 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L											
CAT.NO.	AOM25904T										
SPEC.	39J95Z42										
HP	5 AIR OVER										
VOLTS	230/460										
AMP	18.4/9.2										
RPM	885										
FRAME	254T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	84	**PF**	60								
RATING	40C AMB-CONT										
CC											
DE	6309		**ODE**	6208							
ENCL	TEAO	**SN**									
	900 FPM AT 250 CFM										

AC Induction Motor Performance Data
Record # 13156
Typical performance - not guaranteed values

Winding: 39WGZ042-R001	**Type:** 3936M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5 AIR OVER	**Full Load Torque**	29.96 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18.4/9.2	**Breakdown Torque**	68.97 LB-FT
R.P.M.			885	**Pull-up Torque**	42.46 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	62.1 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	42.25 A
Service Factor (S.F.)			1.15	**No-load Current**	5.53 A
NEMA Nom. Eff.	84	**Power Factor**	60	**Line-line Res. @ 25ºC**	2.02 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	31.5
				Rotor inertia	2.89 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	42	54	60	63	67	62
Efficiency	73	82.9	84.5	85.3	83.9	82.3	84.5
Speed	896	893	890	886	880	877	882
Line amperes	5.93	6.83	7.83	9.19	11.05	12.78	10.3

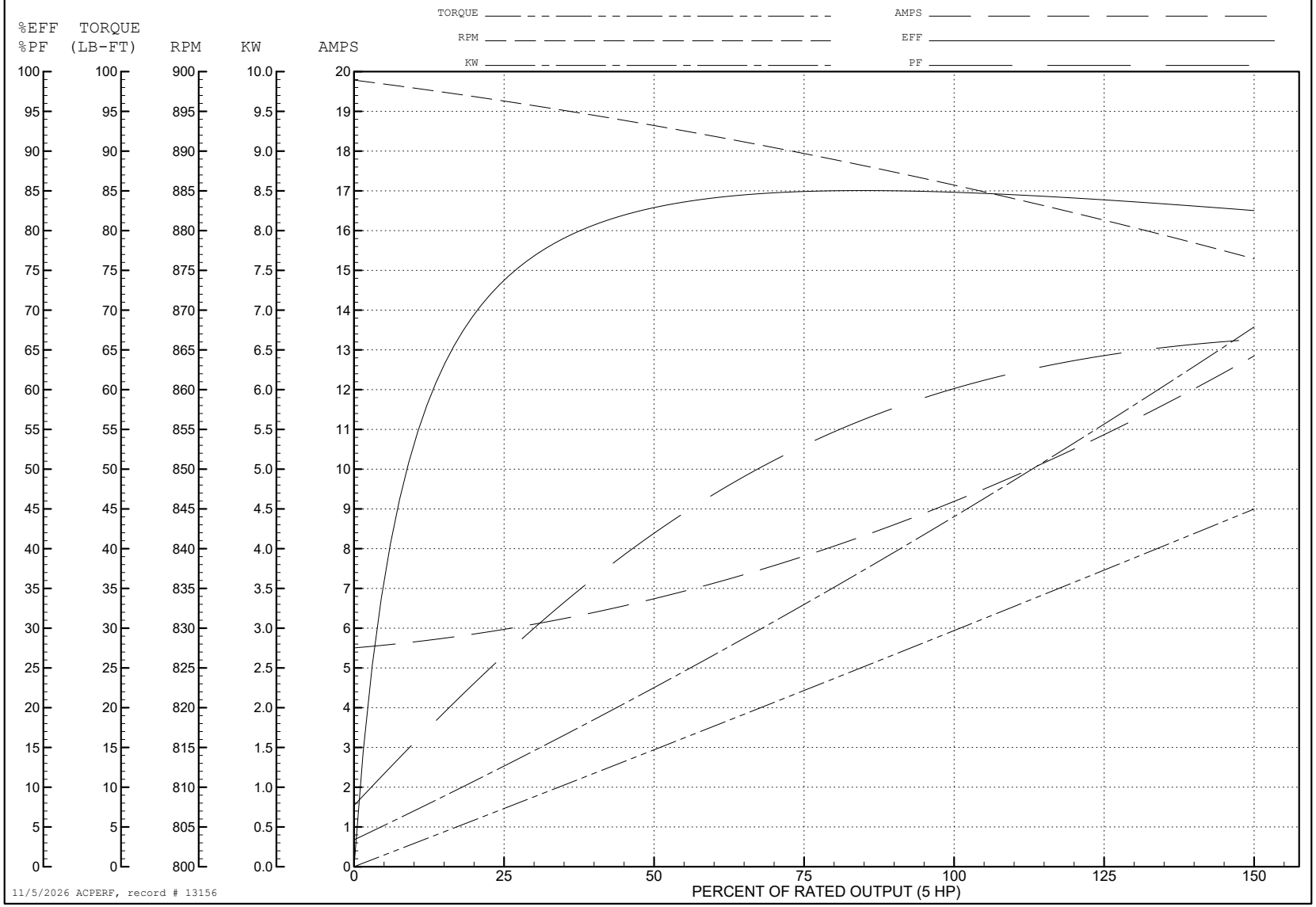
ABB Motors and Mechanical Inc.

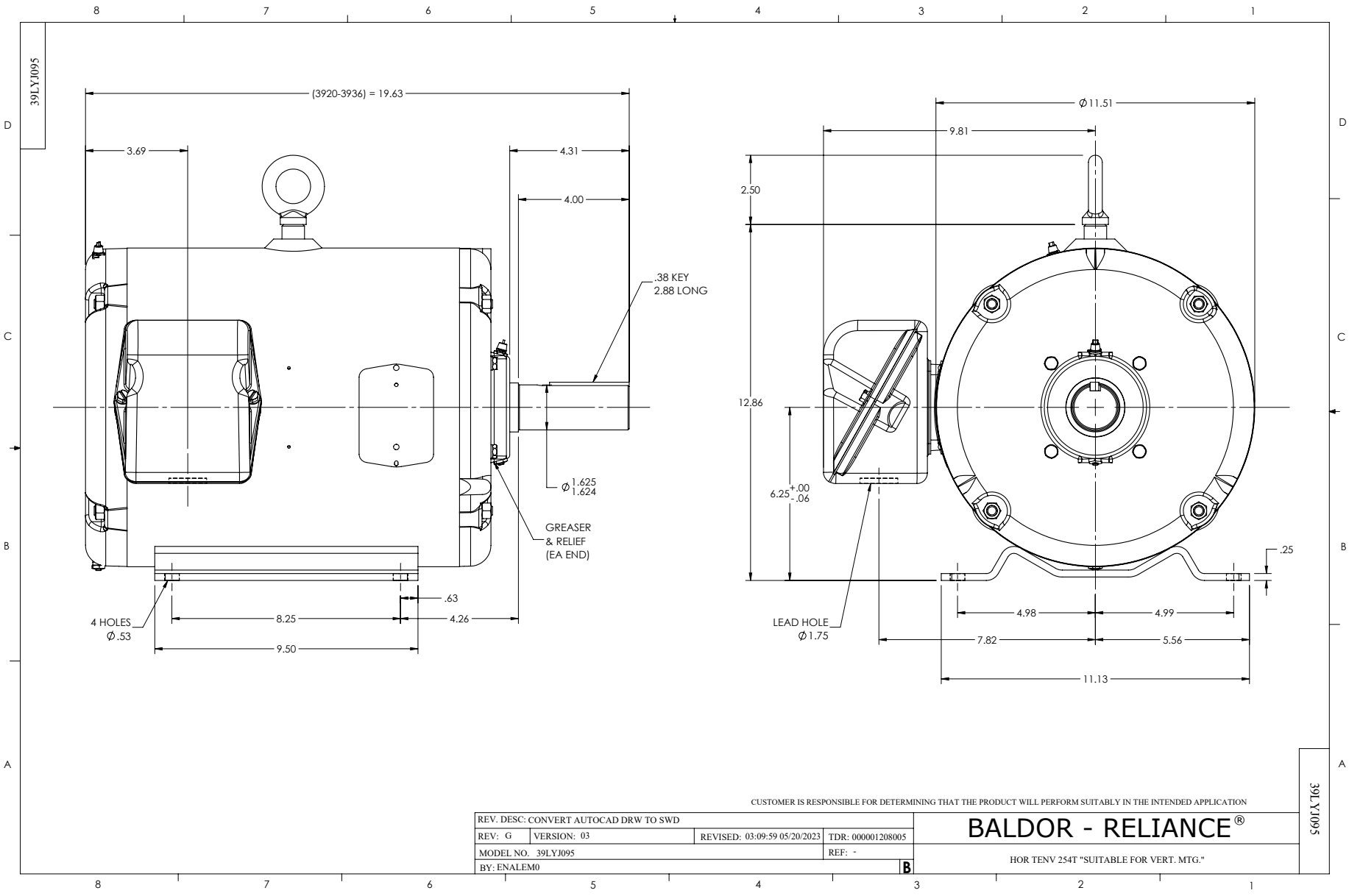
WINDING # 39WGZ042

5 HP 3 PH 60 HZ 885 RPM 460 V 3936M

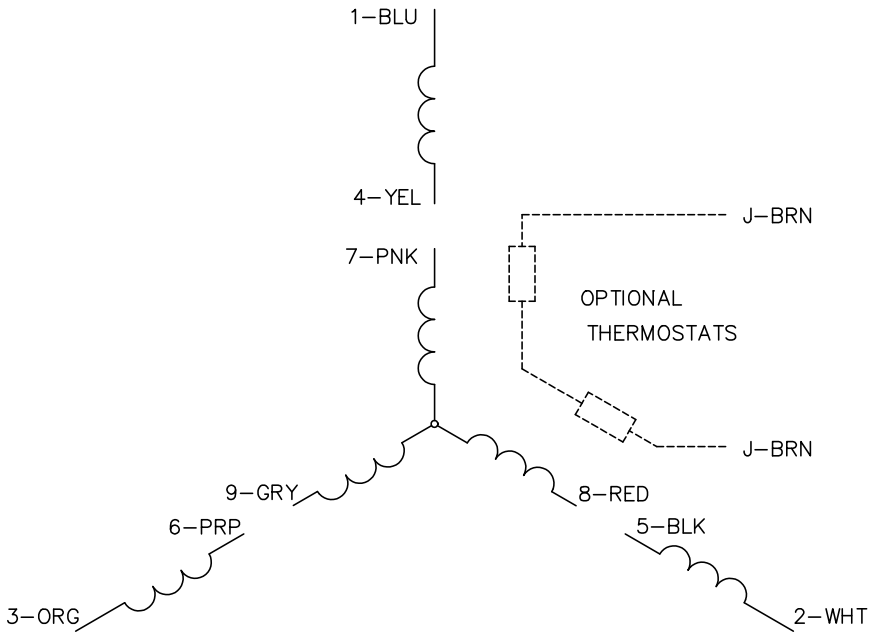
Typical performance - not guaranteed values.

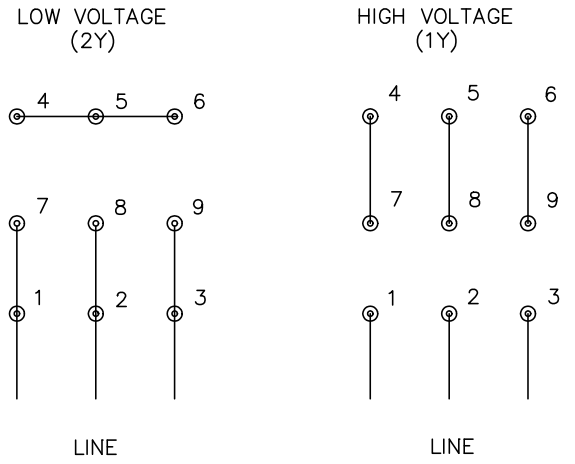
TORQUES(LB-FT): PO=68.97 PU=42.46 LR=62.1 LRA=42.25




39LYJ095
(3920-3936) = 19.63
3.69
4.31
4.00
.38 KEY
2.88 LONG
Ø1.625
1.624
GREASER
& RELIEF
(EA END)
4 HOLES
Ø.53
8.25
.63
4.26
9.50
Ø11.51
9.81
2.50
12.86
6.25 +.00 -.06
.25
LEAD HOLE
Ø1.75
4.98
4.99
7.82
5.56
11.13
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 03
REVISED: 03:09:59 05/20/2023
TDR: 000001208005
MODEL NO. 39LYJ095
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR TENV 254T "SUITABLE FOR VERT. MTG."
39LYJ095

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