ABB BALDOR RELIANCE

Customer information packet

VXT3154T

15HP, 1760RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	3
Current @ Voltage	38.400 A @ 208.0 V
	35.200 A @ 230.0 V
	17.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT037
Layout	09LY-001-011
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	11-05-2020

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	17.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.86 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 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

NP4163L									
CAT.NO.	VXT3154T					**I.P.**	54		
SPEC.	09-0000-2726					**ENCL**	TEFC		
FRAME	254TC		**H.P.**	15					
VOLTS	230/460		**P.F.**	85					
F.L. AMPS	35.2/17.6			**RATING**	40C AMB-CONT				
R.P.M.	1760								
HZ.	60	**PH.**	3	**CLASS**	F				
SER.F.	1.15	**DES.**	B	**SL HZ**	1.3				
NEMA NOM. EFF.	92.4	**WK2**	1.93						
DE	6309	**ODE**	6208						
MAG. CUR.	12.4/6.2								
INV TYPE	PWM	**CHP**	60	**TO**	90	**T. CODE**	T3A		
CT	3	**TO**	60	**VT**	3	**TO**	60		
CC	010A	**SN**							
	USABLE AT 50 HZ 10HP 190/380V 29.2/14.6A								

AC Induction Motor Performance Data
Record # 67912
Typical performance - not guaranteed values

Winding: 09WGT037-R006	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	44.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35.2/17.6	**Breakdown Torque**	163 LB-FT
R.P.M.			1760	**Pull-up Torque**	53.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	73.2 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	108 A
Service Factor (S.F.)			1	**No-load Current**	6.19 A
NEMA Nom. Eff.	92.4	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.62 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
				Locked-rotor Power Factor	32.6
				Rotor inertia	1.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	73	84	86	87	88
Efficiency	89.4	92.6	93	92.5	91.4	90.3
Speed	1792	1783	1773	1763	1752	1739
Line amperes	7.44	10.3	13.5	17.6	22	26.6

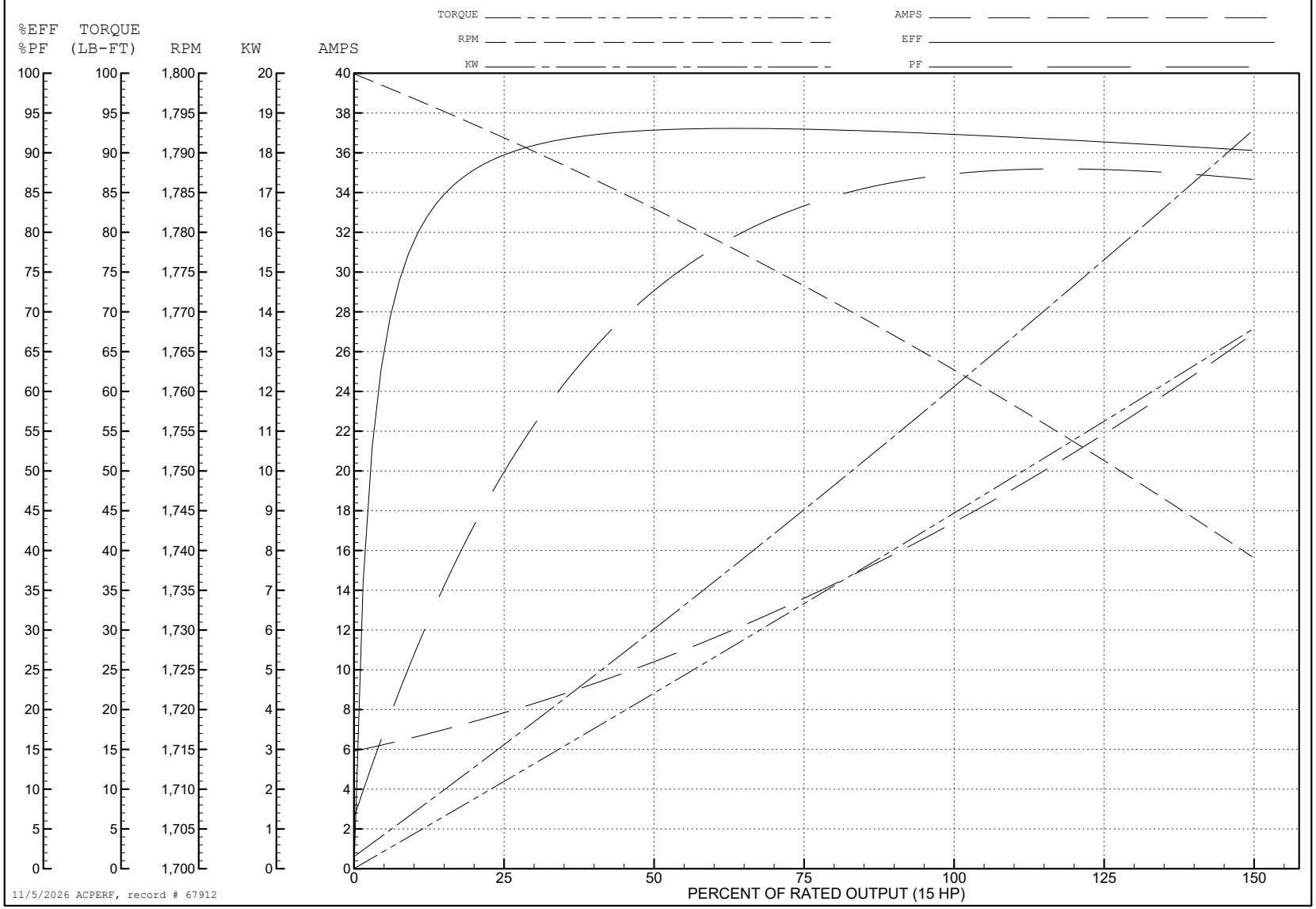
ABB Motors and Mechanical Inc.

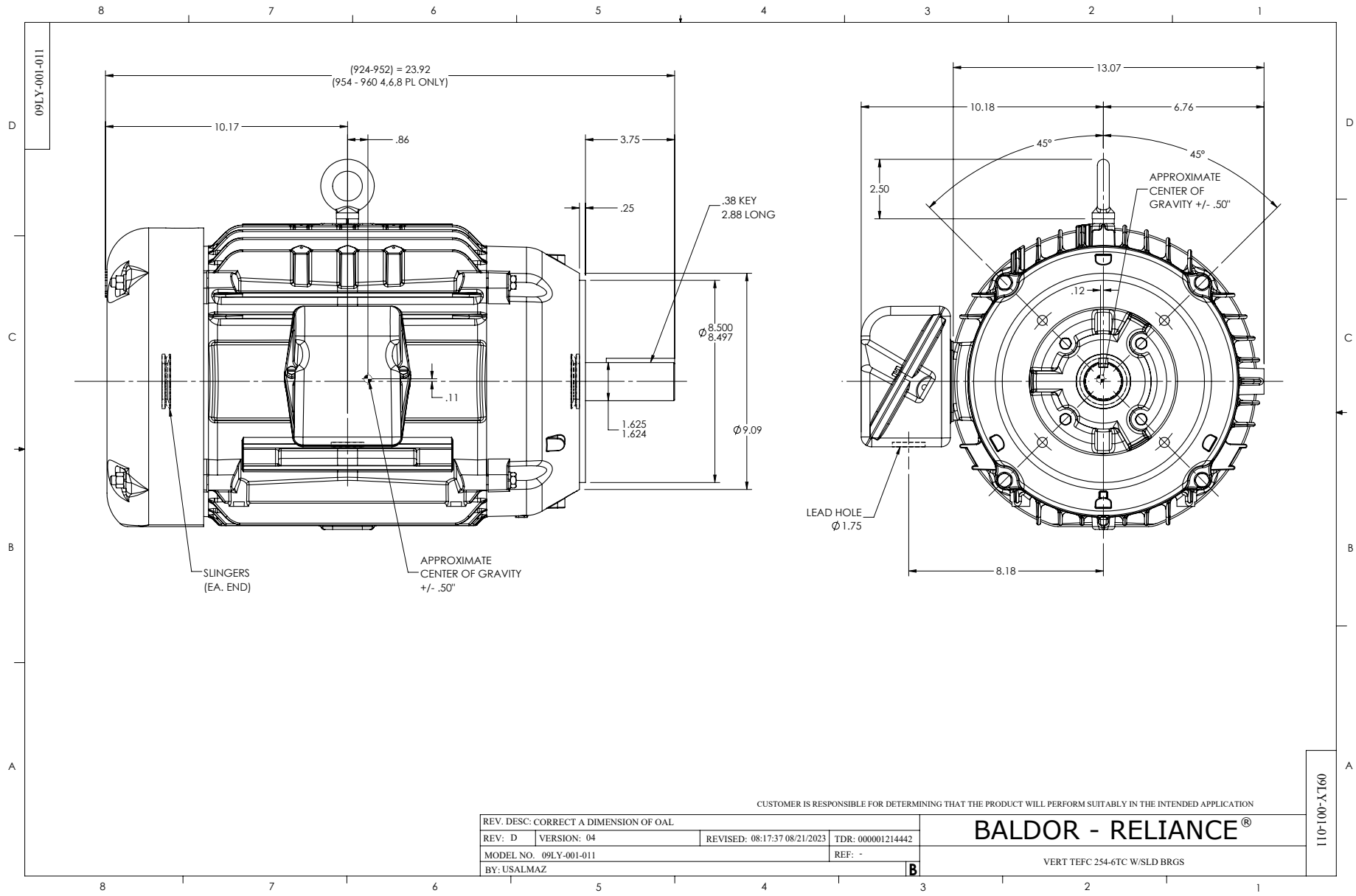
WINDING # 09WGT037

15 HP 3 PH 60 HZ 1760 RPM 460 V 0944M

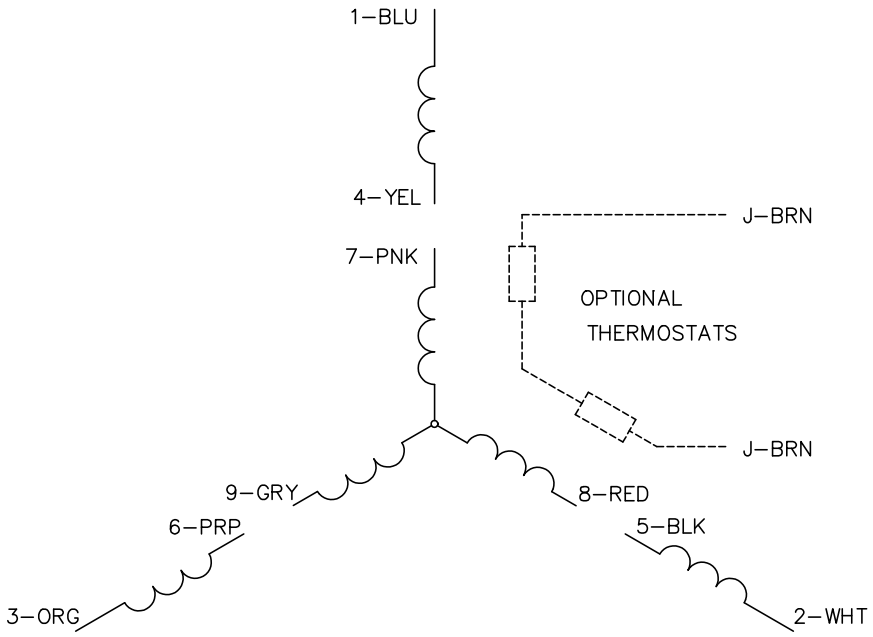
TORQUES(LB-FT): PO=163 PU=53.3 LR=73.2 LRA=108

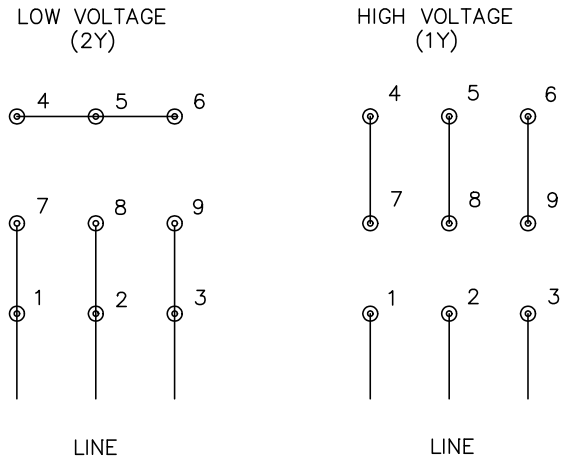
Typical performance - not guaranteed values.




(924-952) = 23.92
(954 - 960 4,6,8 PL ONLY)
10.17
.86
3.75
.25
.38 KEY
2.88 LONG
Ø 8.500
8.497
.11
1.625
1.624
Ø 9.09
SLINGERS
(EA. END)
APPROXIMATE
CENTER OF GRAVITY
+/- .50"
13.07
10.18
6.76
45°
45°
2.50
APPROXIMATE
CENTER OF
GRAVITY +/- .50"
.12
LEAD HOLE
Ø 1.75
8.18
110-001-XY69
09LY-001-011
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT A DIMENSION OF OAL
REV: D
VERSION: 04
REVISED: 08:17:37 08/21/2023
TDR: 000001214442
MODEL NO. 09LY-001-011
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VERT TEFC 254-6TC W/SLD BRGS

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