ABB BALDOR RELIANCE

Customer information packet

VXT3076T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 0954M, TEFC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	22.400 A @ 208.0 V
	21.000 A @ 230.0 V
	10.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT564
Layout	09LY-001-011
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	11-04-2020

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	10.5 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.86 IN
Power Factor	71
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	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

NP4163L											
CAT.NO.	VXT3076T							**I.P.**	54		
SPEC.	09-0000-2724							**ENCL**	TEFC		
FRAME	254TC			**H.P.**	7.5						
VOLTS	230/460			**P.F.**	71						
F.L. AMPS	21/10.5					**RATING**	40C AMB-CONT				
R.P.M.	1180										
HZ.	60	**PH.**	3			**CLASS**	F				
SER.F.	1.15	**DES.**	B			**SL HZ**	1				
NEMA NOM. EFF.	91			**WK2**	4.34						
DE	6309			**ODE**	6208						
MAG. CUR.	10.8/5.4										
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 5HP 190/380V										
	18.2/9.1A										

AC Induction Motor Performance Data
Record # 69714
Typical performance - not guaranteed values

Winding: 09WGT564-R001	**Type:** 0954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	32.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			21/10.5	**Breakdown Torque**	92 LB-FT
R.P.M.			1180	**Pull-up Torque**	36.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	53.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	64.6 A
Service Factor (S.F.)			1	**No-load Current**	5.39 A
NEMA Nom. Eff.	91	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.952 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
				Locked-rotor Power Factor	25.7
				Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	34	54	65	71	74	75
Efficiency	83.5	90.2	91.2	91.6	91.7	90.8
Speed	1196	1191	1188	1183	1177	1171
Line amperes	5.92	7.13	8.57	10.5	12.7	15.6

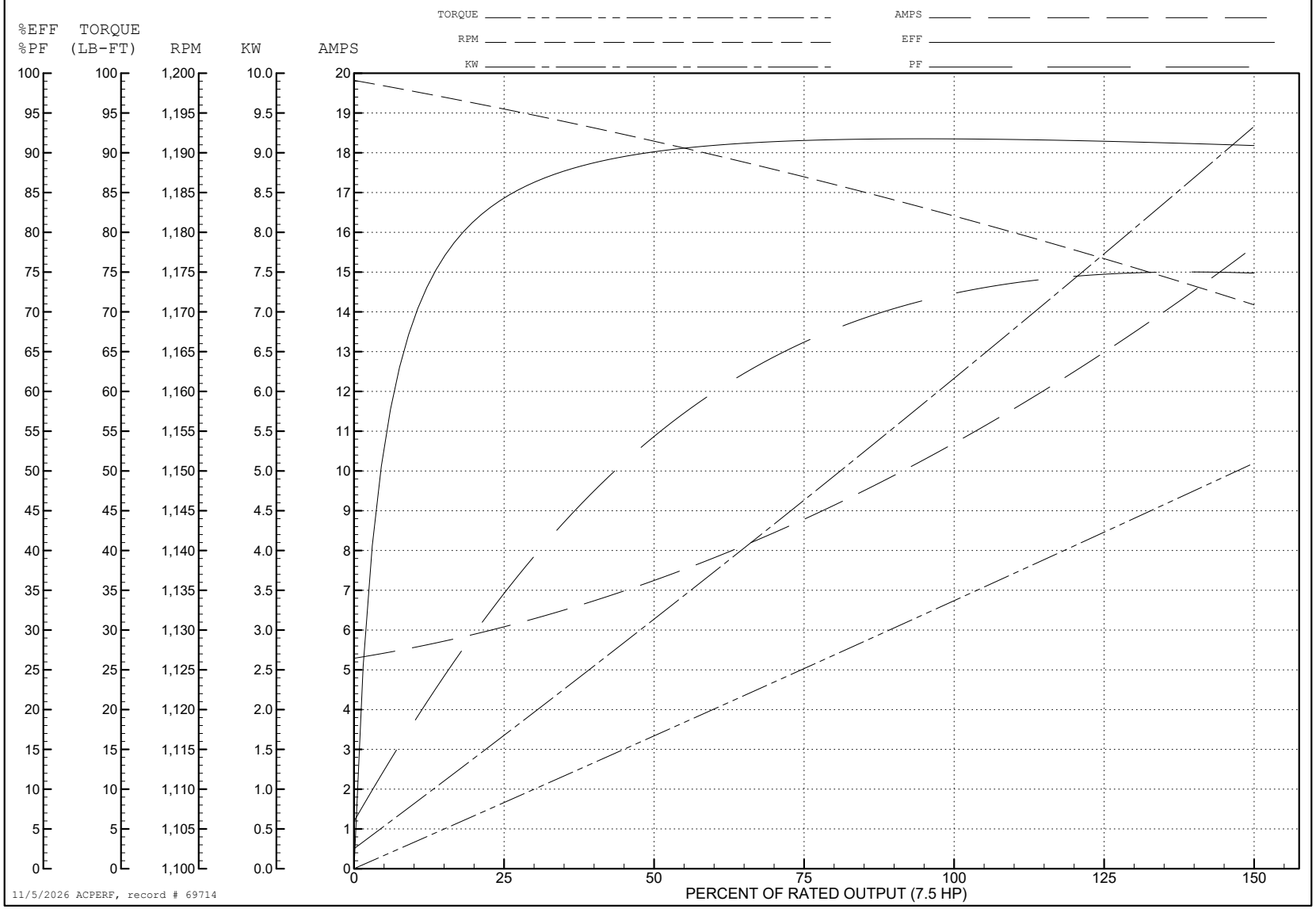
ABB Motors and Mechanical Inc.

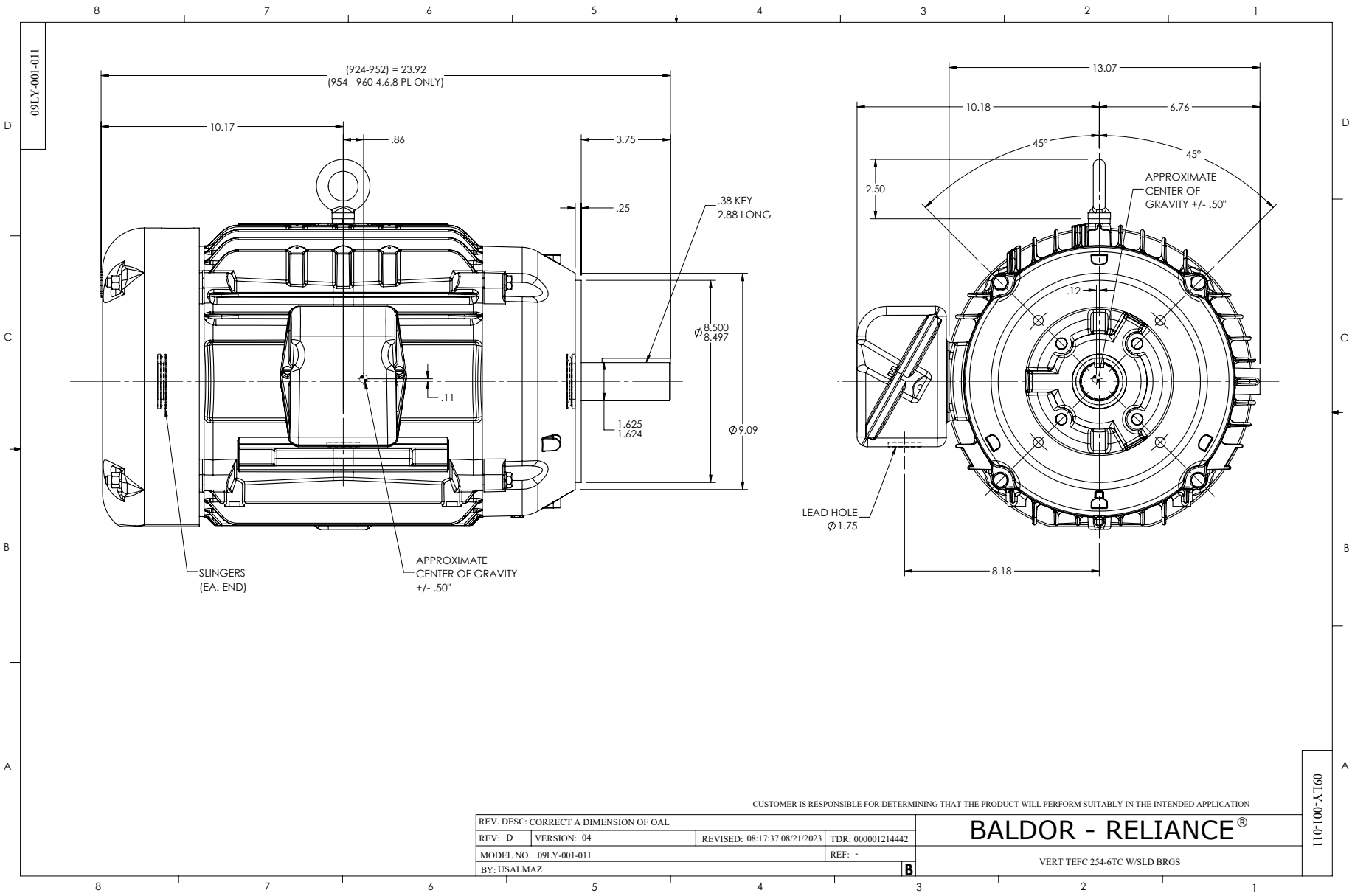
WINDING # 09WGT564

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

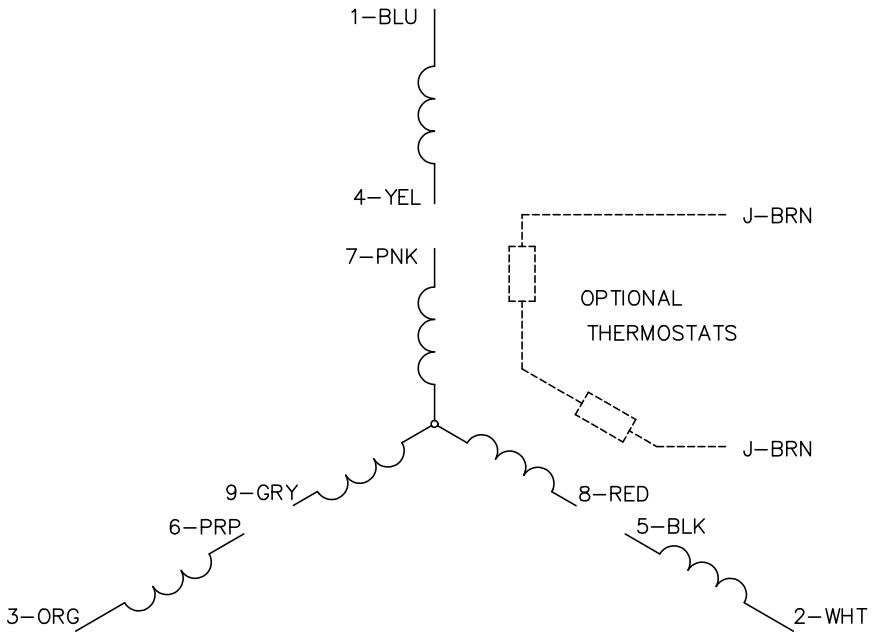
Typical performance - not guaranteed values.

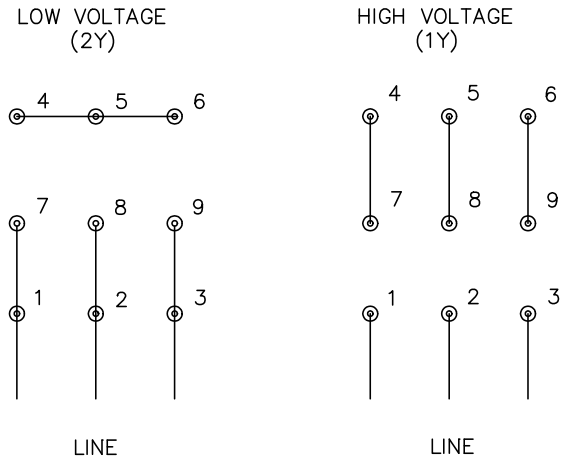
TORQUES(LB-FT): PO=92 PU=36.5 LR=53.6 LRA=64.6




(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
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
09LY-001-011

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