

ABB BALDOR RELIANCE III

Customer information packet

VXT3204T-5

20HP, 1770RPM, 3PH, 60HZ, 256TC, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	256TC
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CSA EEV CCSA US
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	19.200 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LY-001-011
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	06-02-2021

High Voltage Full Load Amps	19.2 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.86 IN
Power Factor	83
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

NP4224L									
CAT.NO.	VXT3204T-5					I.P.	54		
SPEC.	09-0000-3212					ENCL	TEFC		
FRAME	256TC	H.P.	20		T. CODE	T3C			
VOLTS	575	P.F.	83						
F.L. AMPS	19.2	RATING	40C AMB-CONT						
R.P.M.	1770								
HZ.	60	PH.	3	CLASS	F				
SER.F.	1.00	DES.	A	SL HZ	1				
NEMA NOM. EFF.	93	WK2	2.62						
DE	6309	ODE	6208						
MAG. CUR.	8.3								
INV TYPE	PWM	CHP	60	TO	90	INV TEMP CODE	T3C		
CT	3	TO	60	VT	3	TO	60		
CC	010A	SN							

AC Induction Motor Performance Data

Record # 88530

Typical performance - not guaranteed values

Winding: 09WGT507-R001			Type: 0960M		Enclosure: TEFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		20	Full Load Torque		59.3 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		19.2	Breakdown Torque		172 LB-FT			
R.P.M.		1770	Pull-up Torque		125.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		82.7 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		104 A	
Service Factor (S.F.)		1.15		No-load Current		6.85 A		
NEMA Nom. Eff.		93	Power Factor		83	Line-line Res. @ 25°C		0.524 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		58°C
S.F. Amps						Temp. Rise @ S.F. Load		69°C
						Locked-rotor Power Factor		26.9
						Rotor inertia		2.65 lb-ft²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	83	87	88	89	88
Efficiency	85.8	90.8	92	92.3	92	91.5	92.1
Speed	1793	1786	1780	1772	1764	1756	1767
Line amperes	8.22	11.1	14.7	18.7	23.1	27.7	21.3

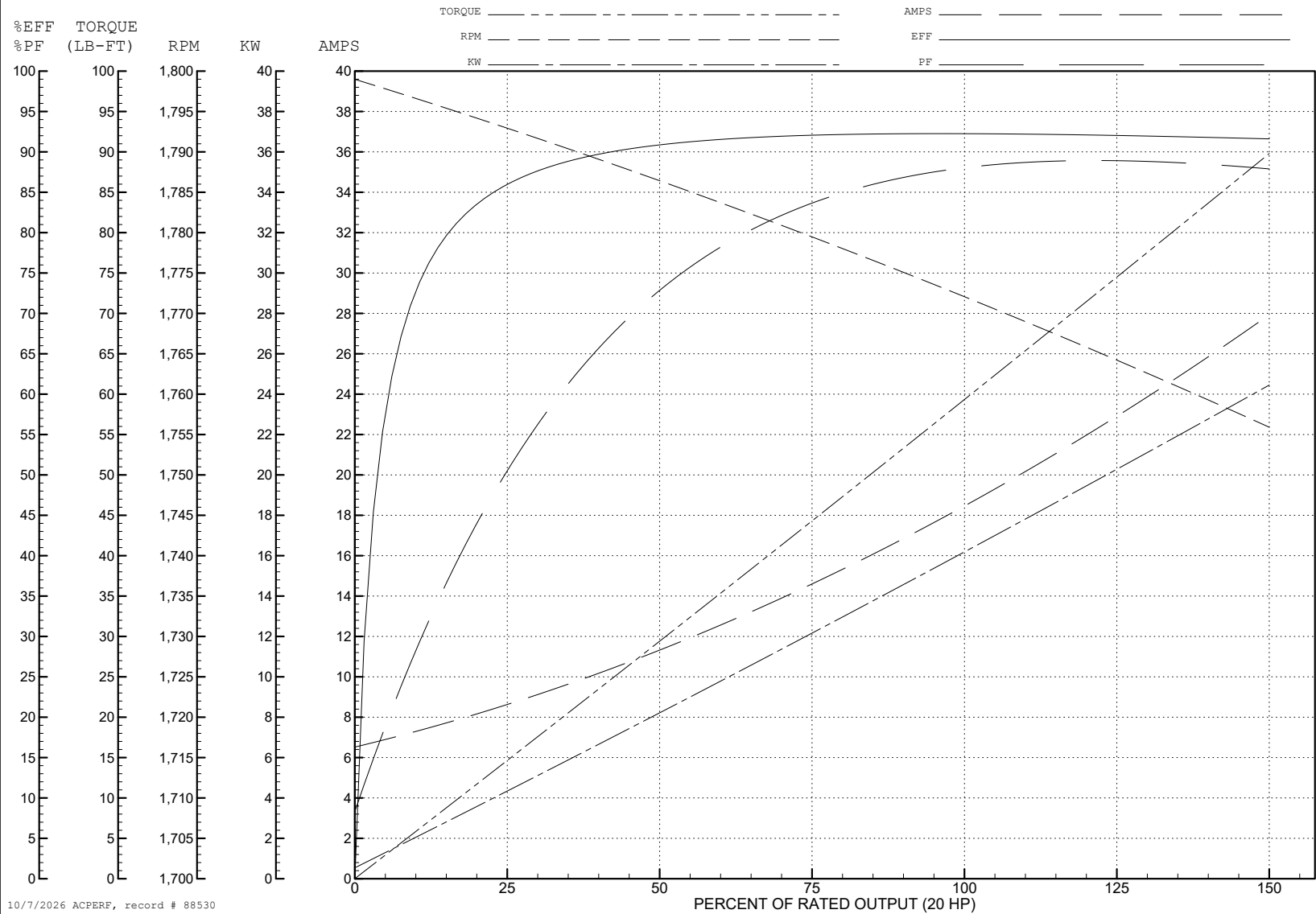
ABB Motors and Mechanical Inc.

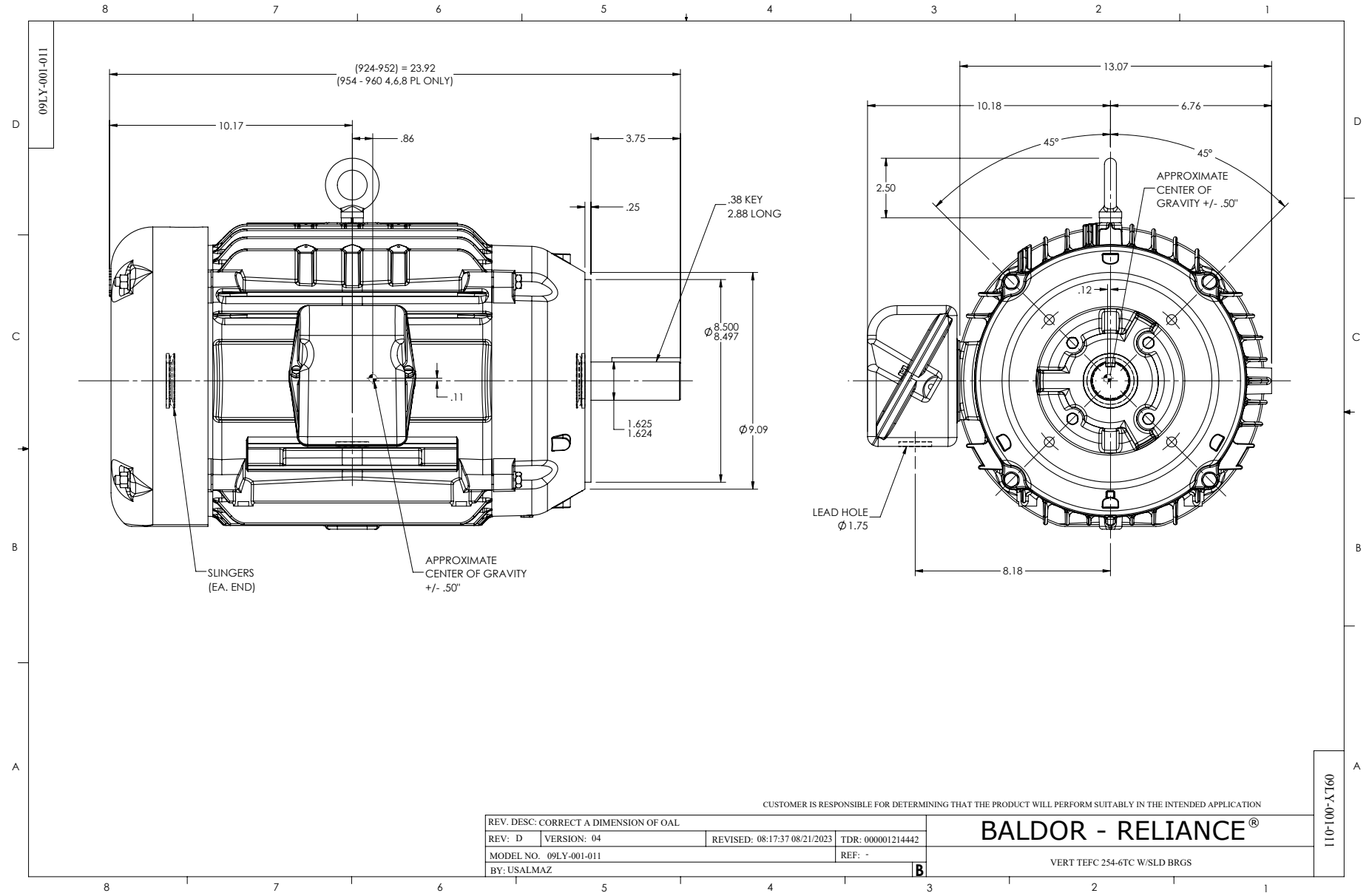
WINDING # 09WGT507

Typical performance - not guaranteed values.

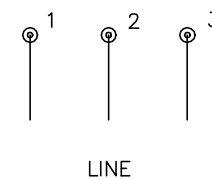
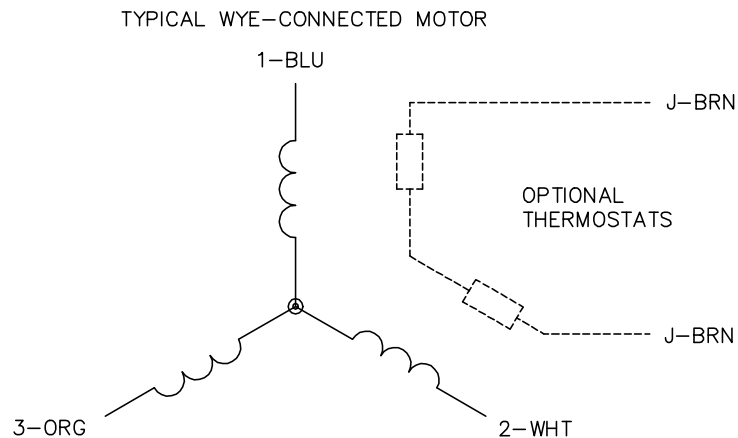
20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

TORQUES (LB-FT): PO=172 PU=125.5 LR=82.7 LRA=104





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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