

ABB BALDOR RELIANCE III

Customer information packet

VEJMM2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256JM, 0960M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256JM
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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
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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	19.2 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	09E178
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYE178
Eff. date	04-16-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	11-17-2017

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.28 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
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

NP3441L											
CAT.NO.	VEJMM2334T-5										
SPEC.	09E178T507G1										
HP	20										
VOLTS	575										
AMP	19.2										
RPM	1770										
FRAME	256JM		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F				
NEMA-NOM-EFF	93	PF	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6208							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	SFA 21.7										

AC Induction Motor Performance Data

Record # 67979

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		59.29 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		19.2	Breakdown Torque		231 LB-FT		
R.P.M.		1770	Pull-up Torque		126 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		140 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		158 A
Service Factor (S.F.)		1.15		No-load Current		8.28 A	
NEMA Nom. Eff.		93	Power Factor	83	Line-line Res. @ 25°C		0.499 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		26.5	
				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	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.5	93.1	92.4	93.3
Speed	1793	1786	1779	1772	1764	1755	1767
Line amperes	9.41	11.99	15.34	19.19	23.44	27.92	21.7

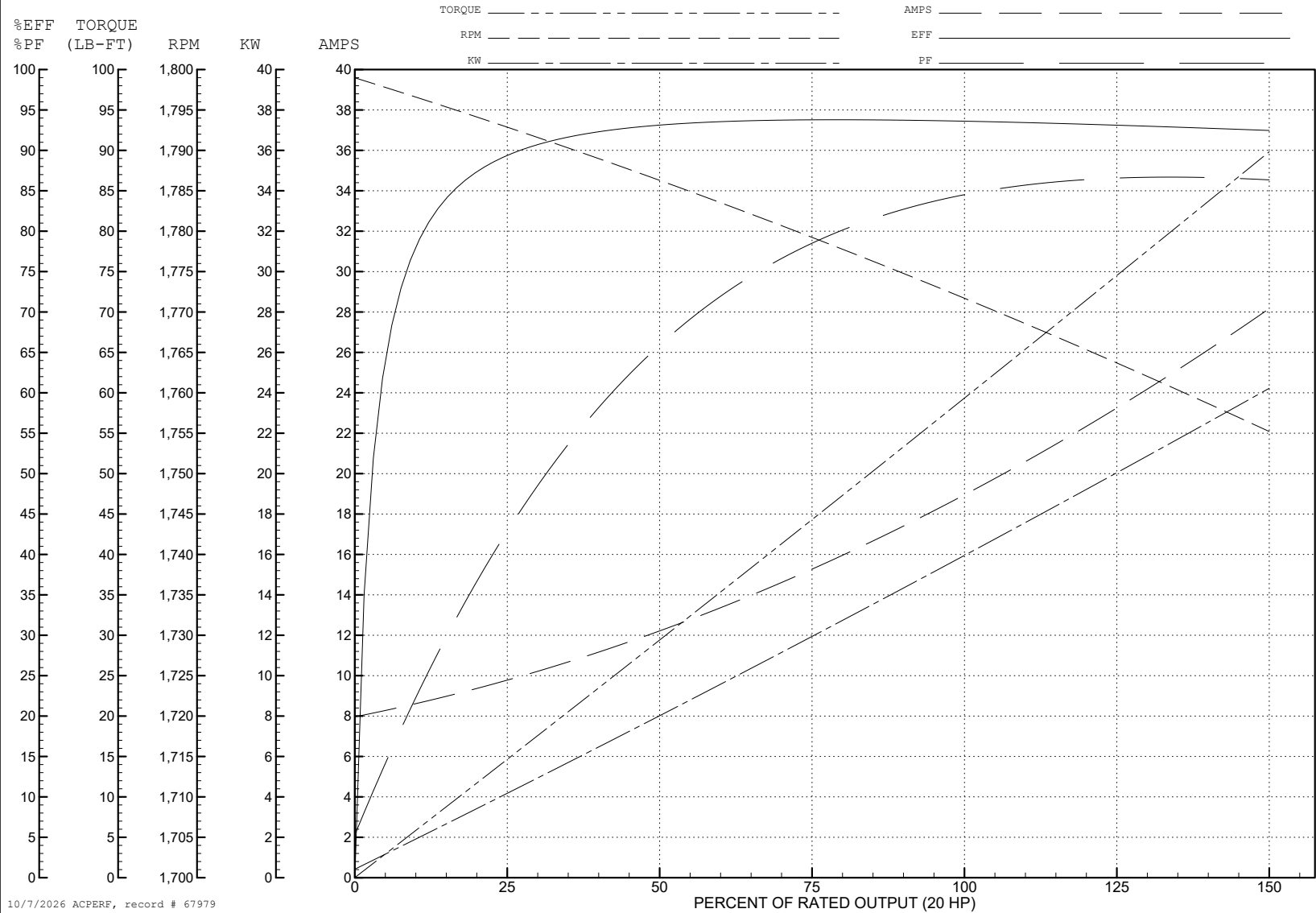
ABB Motors and Mechanical Inc.

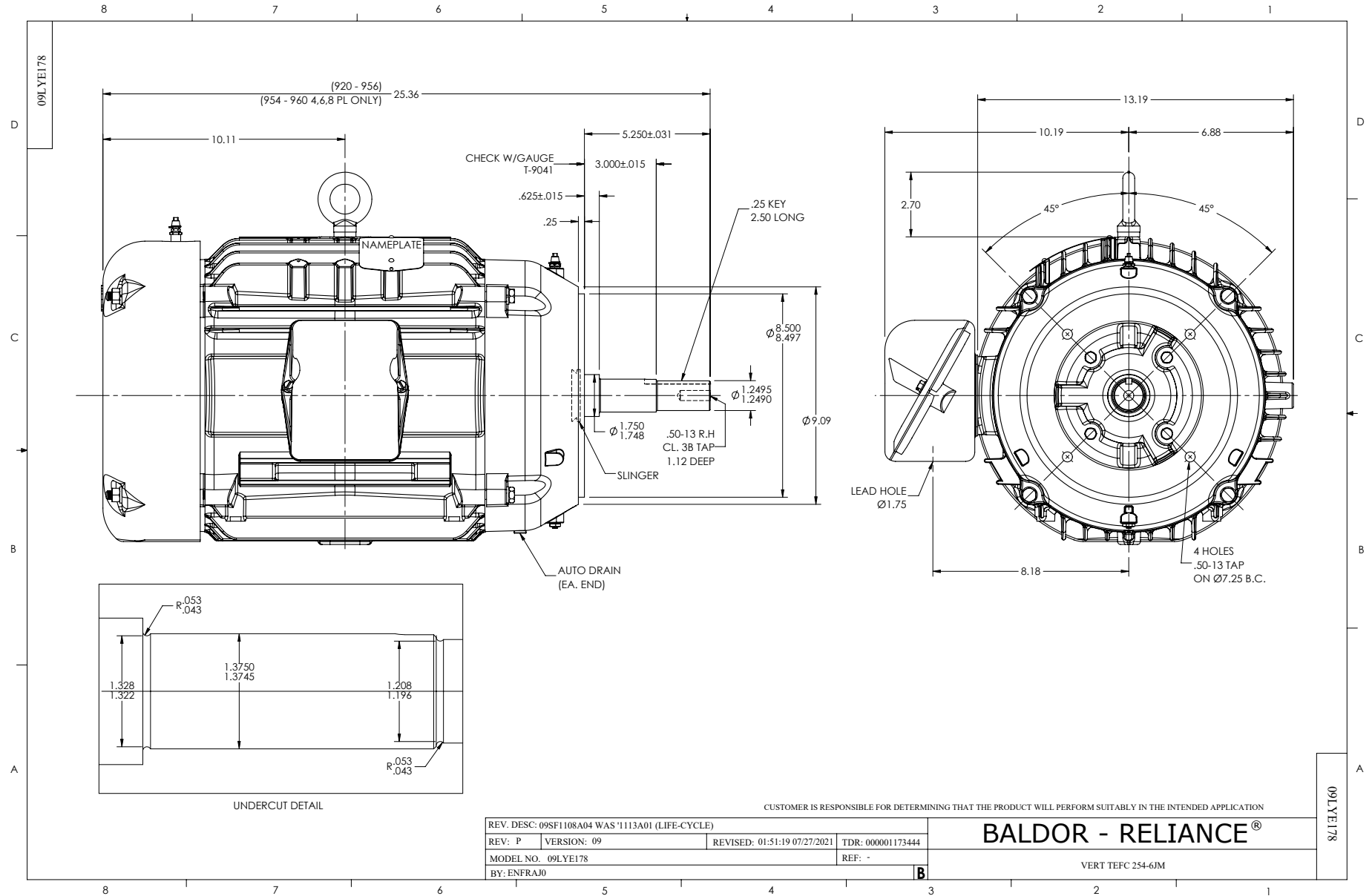
WINDING # 09WGT507

Typical performance - not guaranteed values.

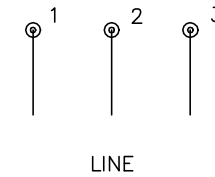
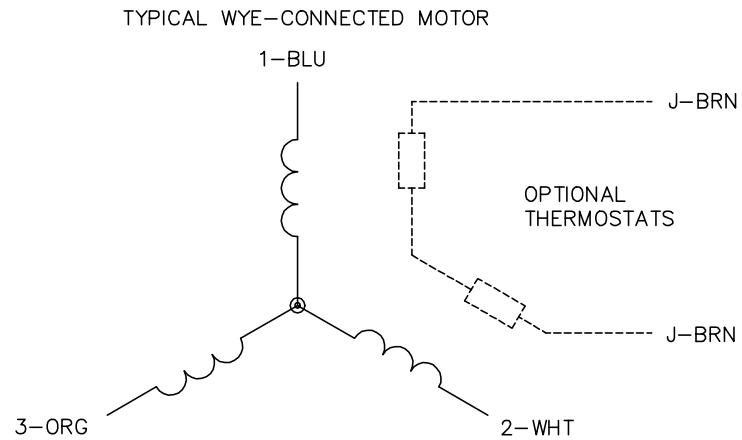
20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

TORQUES (LB-FT): PO=231 PU=126 LR=140 LRA=158





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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