

ABB BALDOR RELIANCE III

Customer information packet

VECP2333T-4

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

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
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	1.2
Current @ Voltage	18.100 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AG
Type	AC
Mech. spec.	09H181
Base	
Status	PRD/A
Elec. spec.	09W9Z914
Layout	09LYH181
Eff. date	04-30-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-29-2012

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.41 IN
Power Factor	83
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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
NP3995ABBL

CAT #		VECP2333T-4					SER				CC		010A						
SPEC		09H181Z914					RATING		40C AMB-CONT										
HZ		VOLTS			AMPS			RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF			
60		460			18.1			1765		15	H		1.15		A	83	%	92.4	%
																%		%	
PH	3	CL	F	MAX RPM		2700		MAX CORR KVAR					USABLE AT 208V			N/A			
IP55		FR	254TC		ENCL	TEFC		DE BRG		6309		ODE BRG		6309					
GREASE		POLYREX EM										MTR WT		303		LBS			
USABLE AT			50HZ 10HP 380V 15.3A										SF1.0						
CL I DIV 2 GRPS A,B,C,D					CL I ZONE 2 GRPS					IIA,IIB,IIC			TEMP T		160	C			
1.0 SF ON PWM INVERTER					POWER		INV TEMP CL			180		C							
CHP	60-90		HZ	1.5:1	CT	1.2-60		HZ	50:1		VT	0-60		HZ	1000:1				
SPACE HEATER LEADS H1-H2:						TIE LIKE NUMBERS				TOGETHER									
V			A			W			MAX SPACE HEATER TEMP										

AC Induction Motor Performance Data

Record # 47166

Typical performance - not guaranteed values

Winding: 09WGZ914-R021				Type: 0944M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15		Full Load Torque		44.5 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		18.1		Breakdown Torque		153 LB-FT	
R.P.M.		1765		Pull-up Torque		69.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		86.5 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		127 A
Service Factor (S.F.)		1.15		No-load Current		7.56 A	
NEMA Nom. Eff.		92.4	Power Factor	83	Line-line Res. @ 25°C		0.59555 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
S.F. Amps				Temp. Rise @ S.F. Load		67°C	
				Locked-rotor Power Factor		33.1	
				Rotor inertia		1.92 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	69	79	83	85	87	84
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4	91.9
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1	1759
Line amperes	8.62	11	14.5	18.2	22.6	26.9	20.8

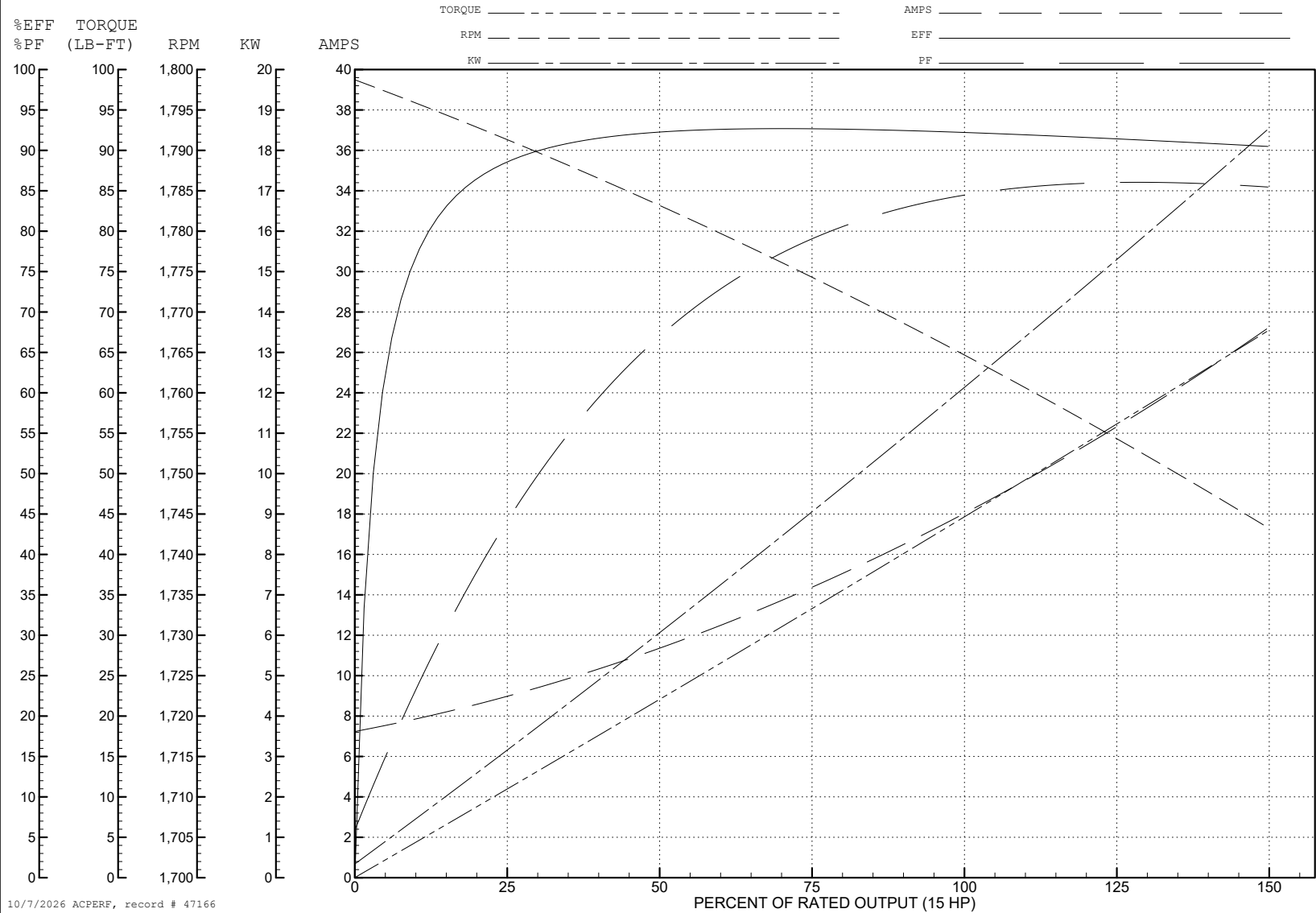
ABB Motors and Mechanical Inc.

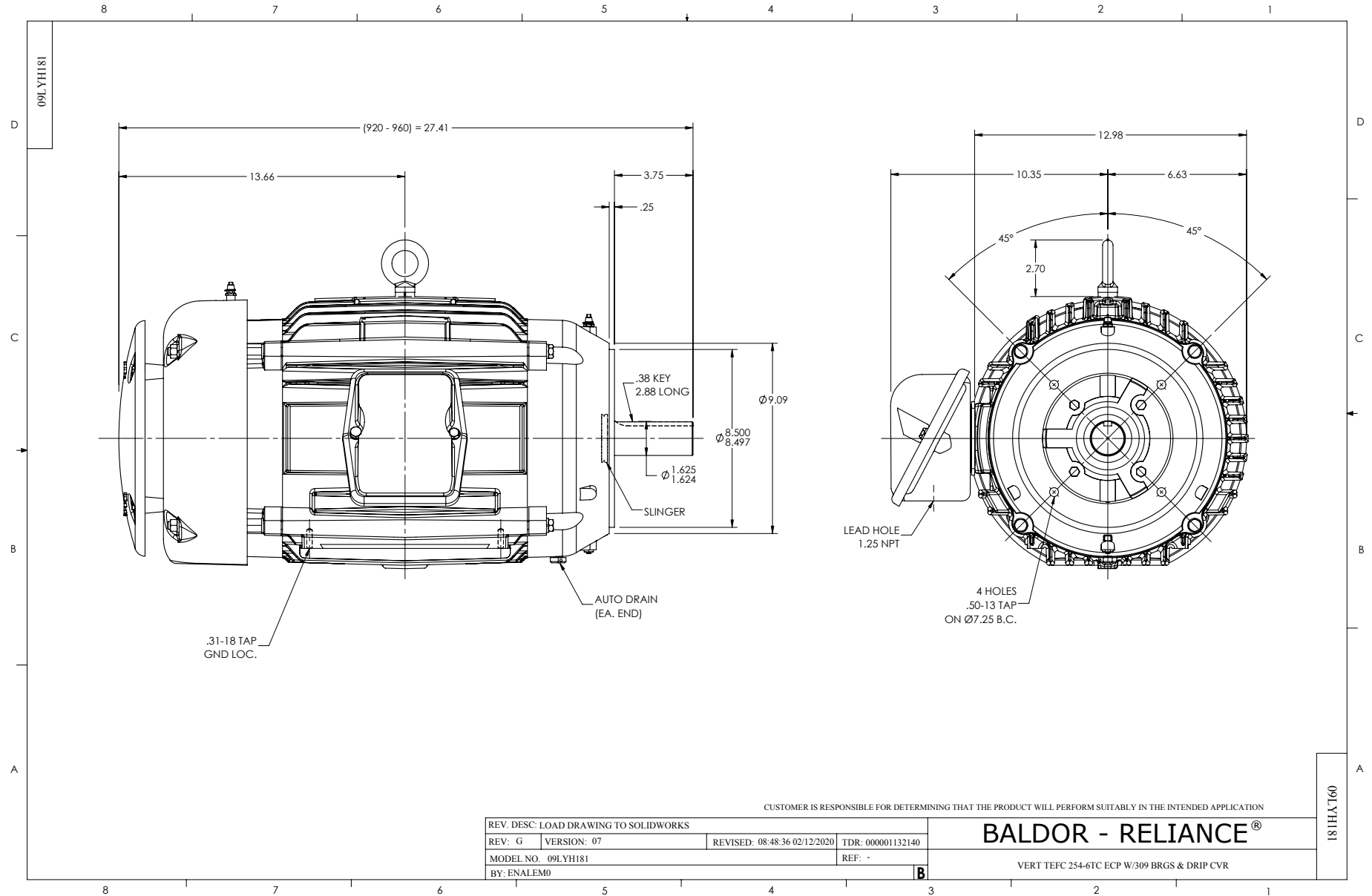
WINDING # 09WGZ914

Typical performance - not guaranteed values.

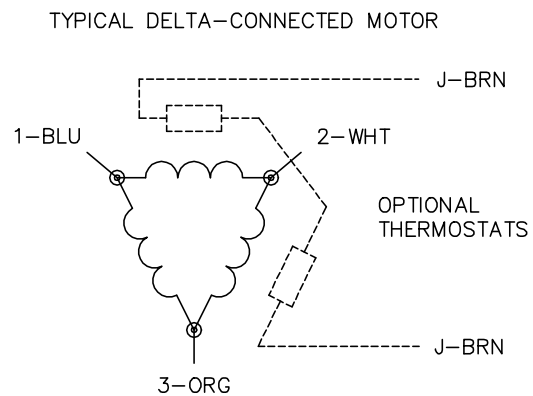
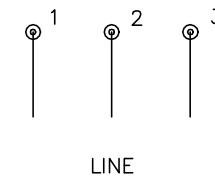
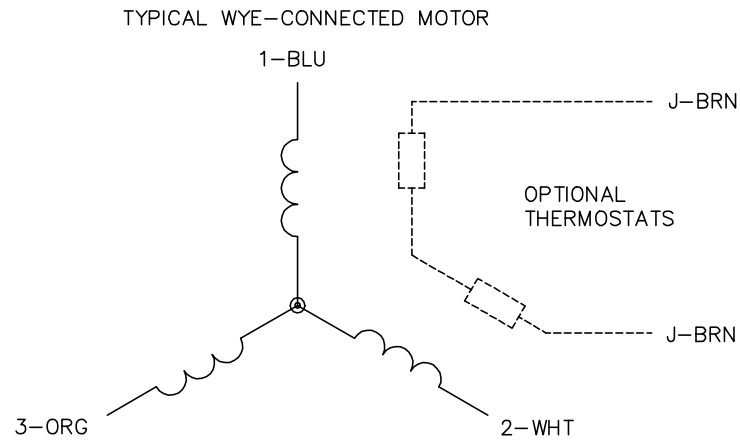
15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127





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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