ABB BALDOR RELIANCE

Customer information packet

VLECP2333T

15HP, 1765RPM, 3PH, 60HZ, 254LP, 0944M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254LP
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	CSA
	CSA EEV
	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	38.000 A @ 208.0 V
	36.200 A @ 230.0 V
	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

Part Detail

Revision	G
Type	AC
Mech. spec.	09T01
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYT001
Eff. date	02-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Front Shaft Indicator	None
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	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.08 IN
Power Factor	84
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
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

NP3241

CAT.NO.	VLECP2333T	**P/N**				**ENCLOSURE**	TEFC						
SPEC.	09T01T597G1	**CC**	010A	**FRAME**	254LP			**S/N**					
HP	15	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	1765	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	H						
VOLT	230/460	**MOTOR WEIGHT**	320										
AMP	36.2/18.1	**SER.F.**	1.15	**PF**	84	**ODE BRG**	6208	**DE BRG**	QJ213				
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	92.4	**GREASE**	POLYREX EM								
				INV.TYPE	PWM								
TEMP CODE	T3C	**INVERTER-TEMP-CODE**	180										
TEMP =	160	**C HP FR**	60	**C HP TO**	90								
CT HZ FROM	1.2	**CT HZ TO**	60										
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	O	**VT HZ TO**	60		

AC Induction Motor Performance Data
Record # 86511
Preliminary Data Sheet

Winding: 09WGT597-R006	**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			230/460	**Start Configuration**	direct on line
Full Load Amps			36.2/18.1	**Breakdown Torque**	154 LB-FT
R.P.M.			1765	**Pull-up Torque**	67.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	83.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	129 A
Service Factor (S.F.)			1.15	**No-load Current**	7.32 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps			41.0/20.5	**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	38.1
				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	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5

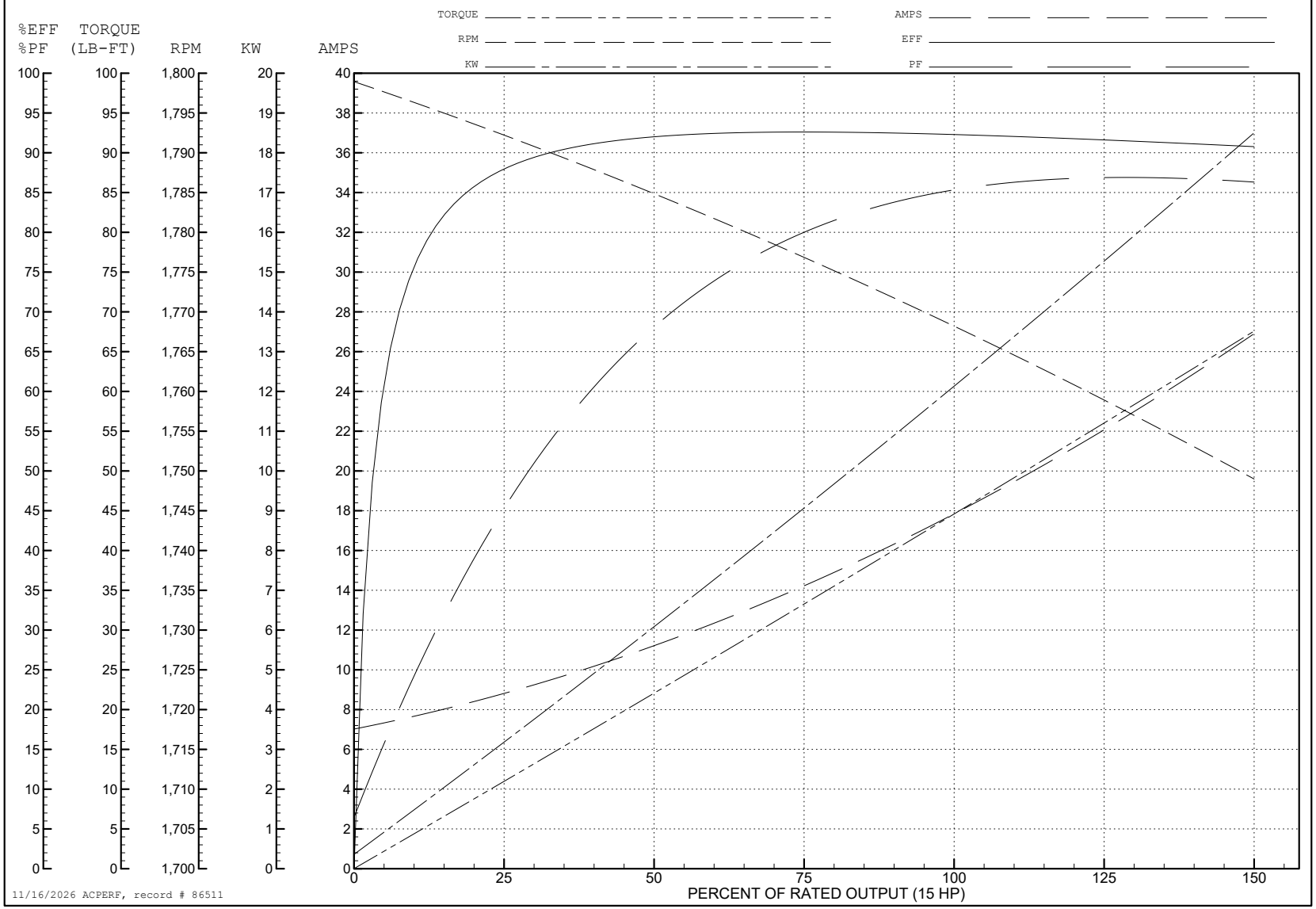
ABB Motors and Mechanical Inc.

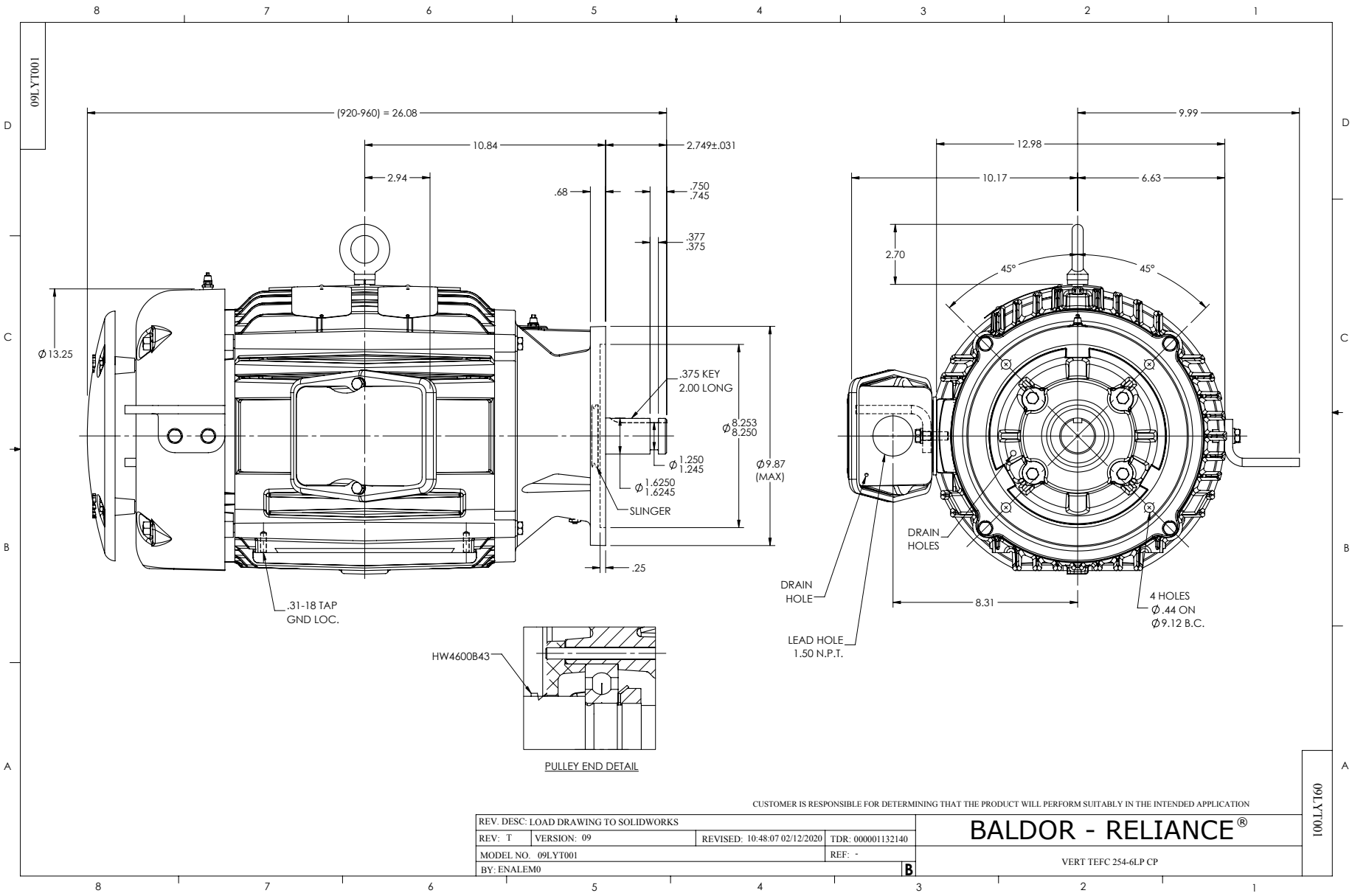
WINDING # 09WGT597

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

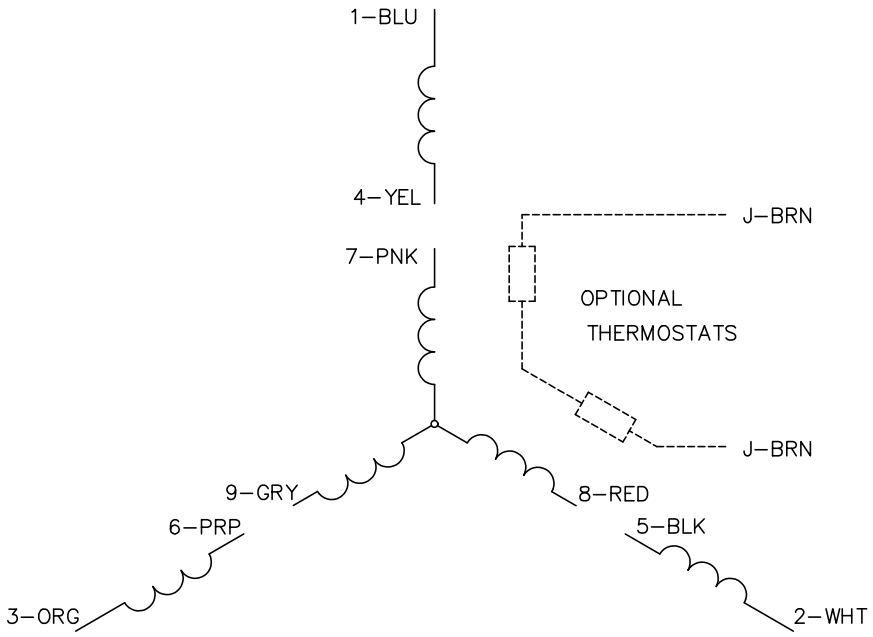
Typical performance - not guaranteed values.

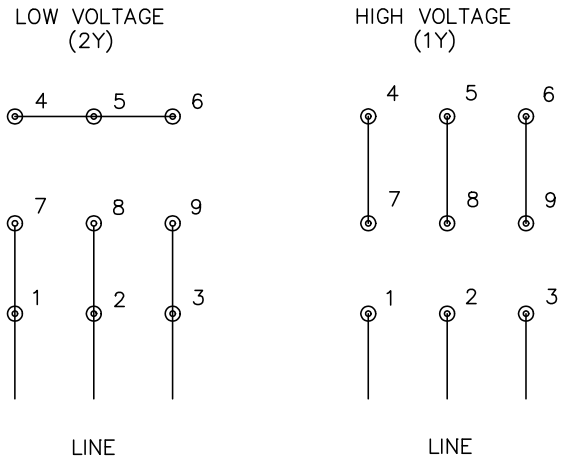
TORQUES(LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129




09LYT001
(920-960) = 26.08
10.84
2.749±.031
2.94
.68
.750
.745
.377
.375
Ø13.25
.375 KEY
2.00 LONG
Ø8.253
8.250
Ø1.250
1.245
Ø1.6250
1.6245
Ø9.87
(MAX)
SLINGER
.25
.31-18 TAP
GND LOC.
HW4600B43
PULLEY END DETAIL
9.99
12.98
10.17
6.63
2.70
45°
45°
DRAIN
HOLES
DRAIN
HOLE
LEAD HOLE
1.50 N.P.T.
8.31
4 HOLES
Ø.44 ON
Ø9.12 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: T
VERSION: 09
REVISED: 10:48:07 02/12/2020
TDR: 000001132140
MODEL NO. 09LYT001
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6LP CP
09LYT001

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