ABB BALDOR RELIANCE

Customer information packet

VLECP3769T

7.5HP, 3510RPM, 3PH, 60HZ, 213LP, 0732M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	213LP
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
	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
Constant Torque Speed Range	6
Current @ Voltage	8.600 A @ 460.0 V
	17.200 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	07H347
Base	
Status	PRD/A
Elec. spec.	07WGY010
Layout	07LYH347
Eff. date	09-22-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	07-07-2015

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0732M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.51 IN
Power Factor	88
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
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3510 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

NP3258									
CAT.NO.	VLECP3769T								
SPEC.	07H347Y010G1								
HP	7.5 TE								
VOLTS	230/460								
AMP	17.2/8.6								
RPM	3510								
FRAME	213LP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B		**CL**	F	
RATING	40C AMB-CONT								
SN									
DE	QJ211	**ODE**	6307						
NEMA-NOM-EFF	91	**PF**	88						
G.MIN.EFF	89.5	**CC**	010A						
T. CODE	T3C	**T=**	160						

NP3261				
SPEC.	07H347Y010G1			
D.E. BRG.	55BZ02X00X			
O.D.E. BRG.	35BC03X30X			
GREASE	POLYREX EM			
RPM MAX	5400	**MAX. KVAR**		
BLANK				
INV.TYPE	PWM			
T=	160			
C HP FR	60	**C HP TO**	90	
CT HZ FROM	6	**CT HZ TO**	60	
VT HZ FROM	3	**VT HZ TO**	60	
HTR-VOLTS	N/A	**HTR-AMPS**	N/A	
HTR-WATTS	N/A	**MAX. SPACE HEATER TEMP.**		N/A

AC Induction Motor Performance Data
Record # 47061
Typical performance - not guaranteed values

Winding: 07WGY010-R020	**Type:** 0732M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			17.2/8.6	**Breakdown Torque**	45.1 LB-FT
R.P.M.			3510	**Pull-up Torque**	15 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.3 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	61.4 A
Service Factor (S.F.)			1.15	**No-load Current**	2.75 A
NEMA Nom. Eff.	91	**Power Factor**	88	**Line-line Res. @ 25ºC**	1.14 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	31.7
				Rotor inertia	0.292 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	78	85	89	89	90	89
Efficiency	86.8	91.2	92.2	91.8	90.9	89.8	91.3
Speed	3579	3558	3536	3510	3484	3454	3494
Line amperes	3.42	4.86	6.63	8.52	10.7	13	9.84

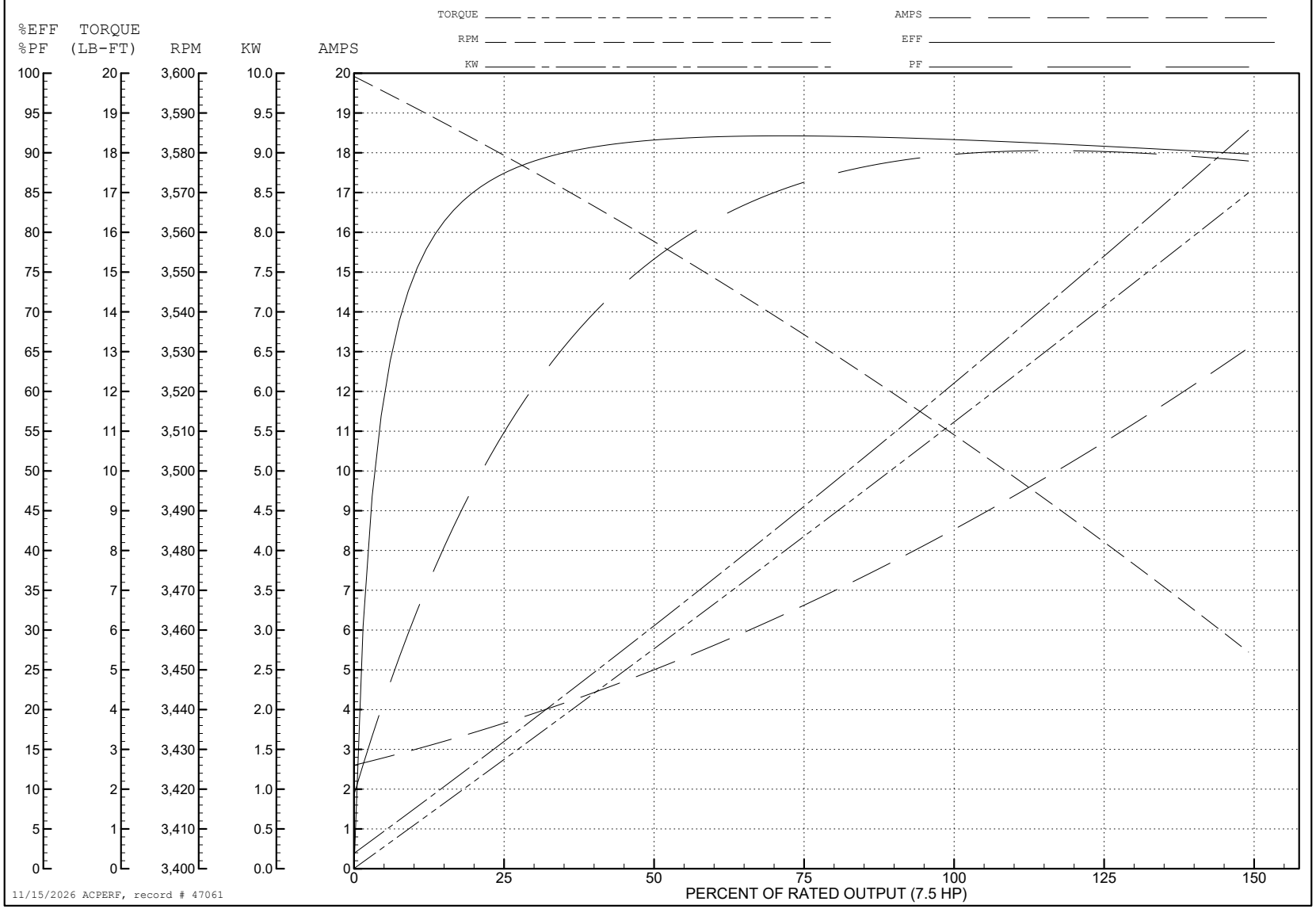
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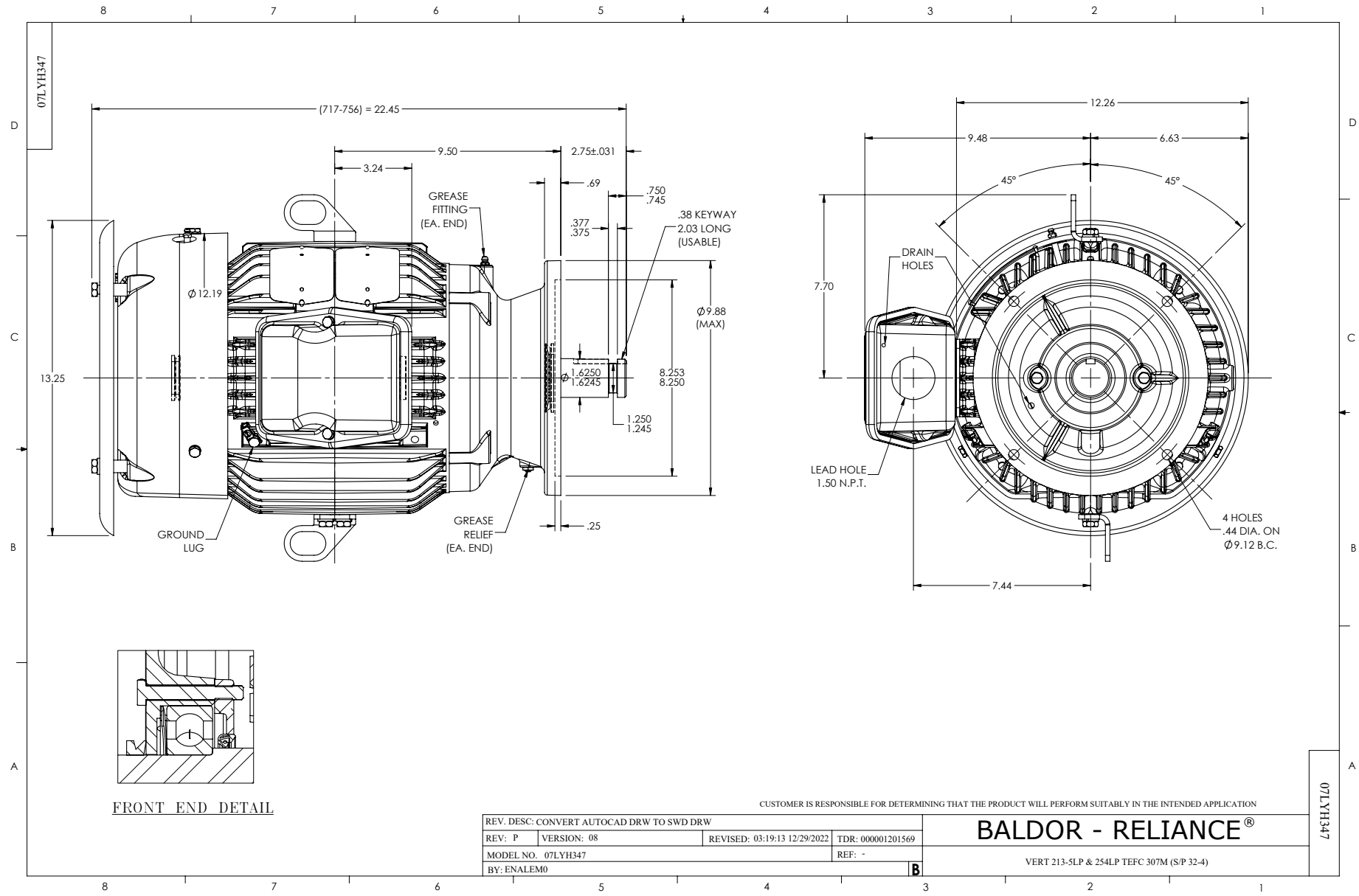
WINDING # 07WGY010

7.5 HP 3 PH 60 HZ 3510 RPM 460 V 0732M

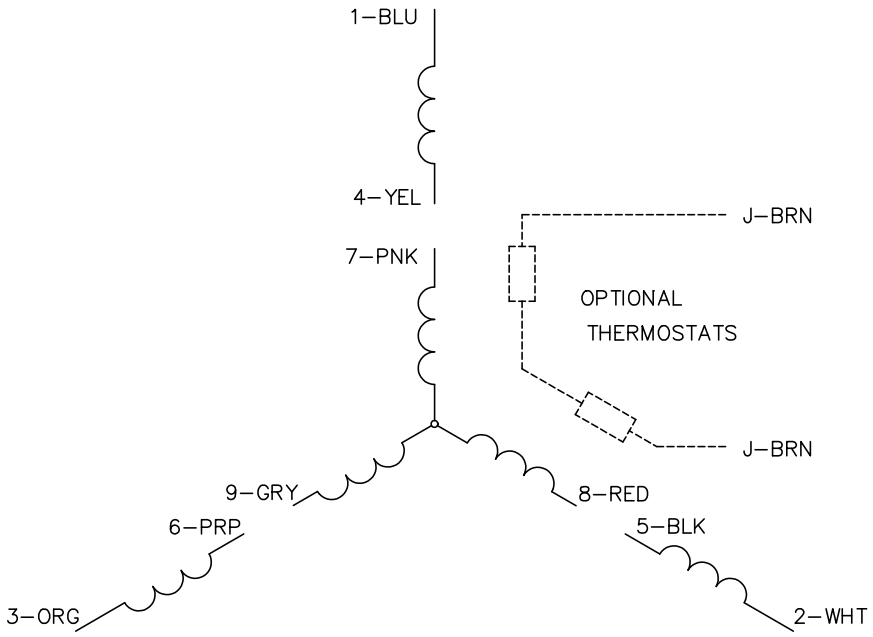
Typical performance - not guaranteed values.

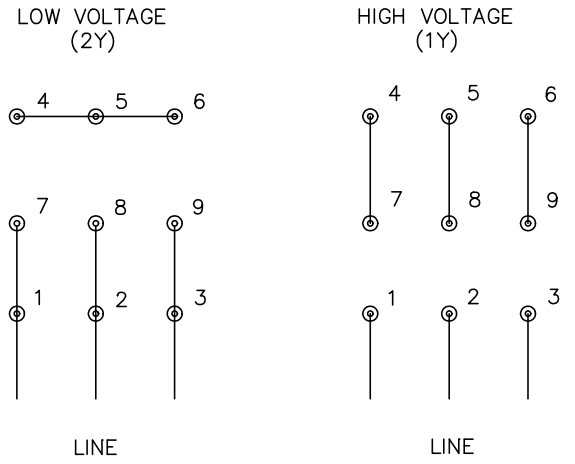
TORQUES(LB-FT): PO=45.1 PU=15 LR=21.3 LRA=61.4




07LYH347
(717-756) = 22.45
9.50
3.24
2.75±.031
.69
.750
.745
.377
.375
.38 KEYWAY
2.03 LONG
(USABLE)
GREASE
FITTING
(EA. END)
Ø12.19
13.25
Ø9.88
(MAX)
Ø1.6250
1.6245
8.253
8.250
1.250
1.245
.25
GROUND
LUG
GREASE
RELIEF
(EA. END)
12.26
9.48
6.63
45°
45°
7.70
DRAIN
HOLES
LEAD HOLE
1.50 N.P.T.
4 HOLES
.44 DIA. ON
Ø9.12 B.C.
7.44
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: P
VERSION: 08
REVISED: 03:19:13 12/29/2022
TDR: 000001201569
MODEL NO. 07LYH347
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 213-5LP & 254LP TEFC 307M (S/P 32-4)
07LYH347

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