ABB BALDOR RELIANCE

Customer information packet

VLECP3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213LP, 0738M, 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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	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
Current @ Voltage	19.000 A @ 230.0 V
	9.500 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	E
Type	AC
Mech. spec.	07H347
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYH347
Eff. date	06-08-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.51 IN
Power Factor	81
Product Family	Chemical Processing (Not DC)
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	No 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

NP3258									
CAT.NO.	VLECP3770T								
SPEC.	07H347T510G1								
HP	7.5 TE								
VOLTS	230/460								
AMP	19/9.5								
RPM	1770								
FRAME	213LP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	A		**CL**	F	
RATING	40C AMB-CONT								
SN									
DE	QJ211	**ODE**	6307						
NEMA-NOM-EFF	91.7	**PF**	81						
G.MIN.EFF	90.2	**CC**	010A						
T. CODE	T3C	**T=**	160						

NP3261					
SPEC.	07H347T510G1				
D.E. BRG.	55BZ02X00X				
O.D.E. BRG.	35BC03X30X				
GREASE	POLYREX EM				
RPM MAX	2700	**MAX. KVAR**	1.4		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1	**CT HZ TO**	60		
VT HZ FROM	1	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

AC Induction Motor Performance Data
Record # 86632
Preliminary Data Sheet

Winding: 07WGT510-R005	**Type:** 0738M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			19/9.5	**Breakdown Torque**	69.1 LB-FT
R.P.M.			1770	**Pull-up Torque**	28.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	39.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	67.4 A
Service Factor (S.F.)			1.15	**No-load Current**	4.07 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.55 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps			21.4/10.7	**Temp. Rise @ S.F. Load**	62°C
				Locked-rotor Power Factor	41.2
				Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	66	76	81	84	85	83
Efficiency	88	91.7	92.2	91.7	90.7	89.3	90.9
Speed	1792	1785	1777	1769	1759	1749	1761
Line amperes	4.61	5.85	7.48	9.43	11.6	13.9	10.7

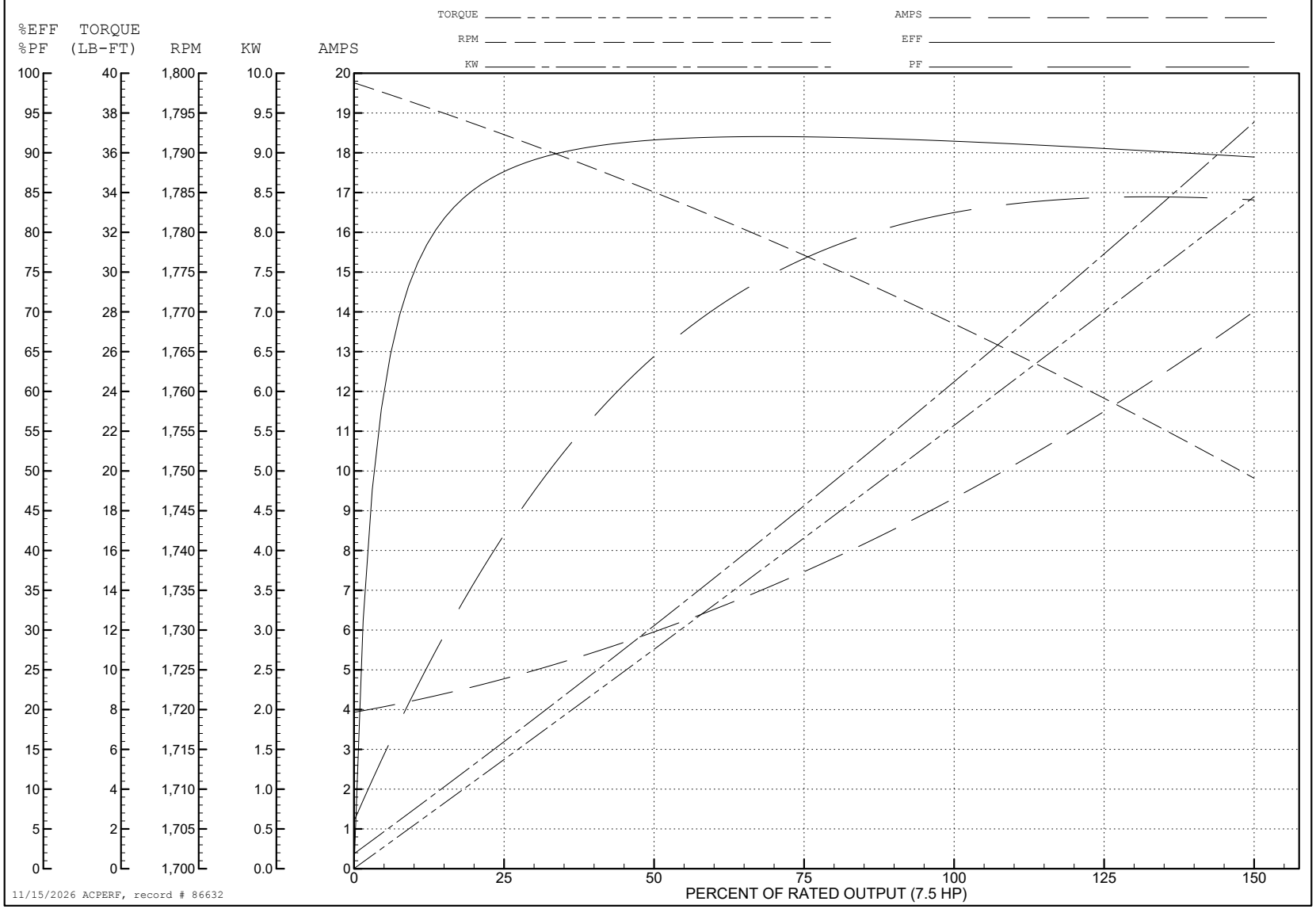
ABB Motors and Mechanical Inc.

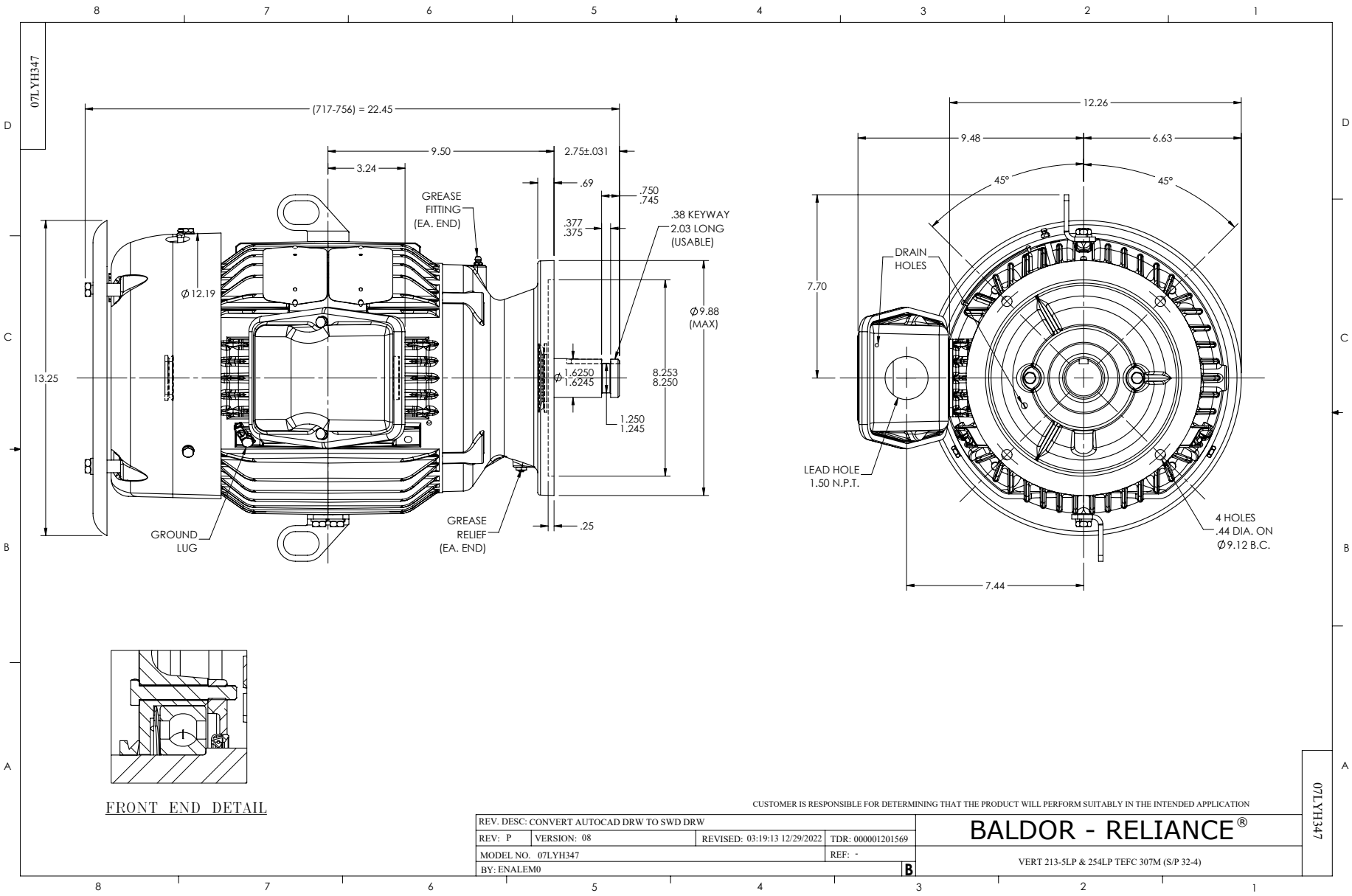
WINDING # 07WGT510

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

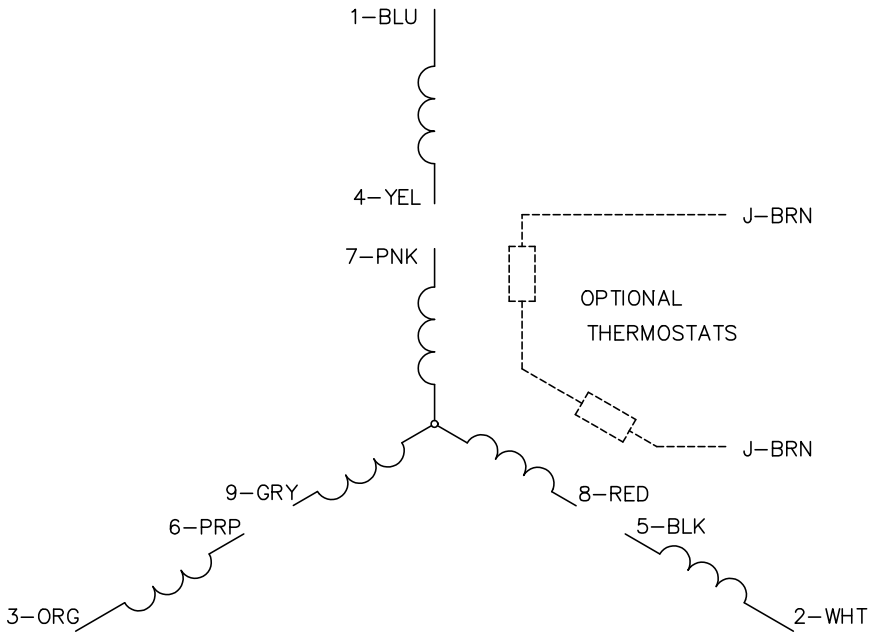
Typical performance - not guaranteed values.

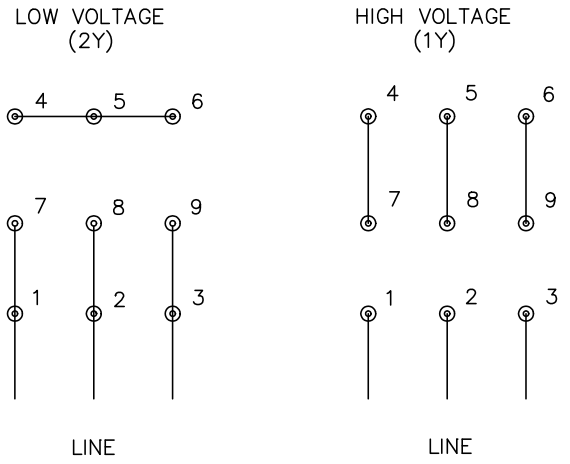
TORQUES(LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4




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