ABB BALDOR RELIANCE

Customer information packet

VHECP3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213HP, 0738M, TEFC
Class - None
Division - Not Applicable

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11/3/2026 6:15:15 AM

Specifications

Enclosure	TEFC
Frame	213HP
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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
	20.000 A @ 208.0 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
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	07K215
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYK215
Eff. date	07-25-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-08-2021

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	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 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

NP1260									
CAT.NO.	VHECP3770T								
SPEC.	07K215T510								
HP	7.5								
VOLTS	230/460								
AMP	19/9.5								
RPM	1770								
FRAME	213HP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	A		**CL**	F	
NEMA-NOM-EFF	91.7	**PF**	81						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6206						
ENCL	TEFC	**SN**							
	SFA 21.4/10.7								

AC Induction Motor Performance Data
Record # 85534
Preliminary Data Sheet

Winding: 07WGT510-R001	**Type:** 0738M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			7.5
Volts			230/460
Full Load Amps			19/9.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			21.4/10.7

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	69.1 LB-FT
Pull-up Torque	28.7 LB-FT
Locked-rotor Torque	39.1 LB-FT
Starting Current	67.4 A
No-load Current	4.07 A
Line-line Res. @ 25ºC	1.55 Ω
Temp. Rise @ Rated Load	48°C
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

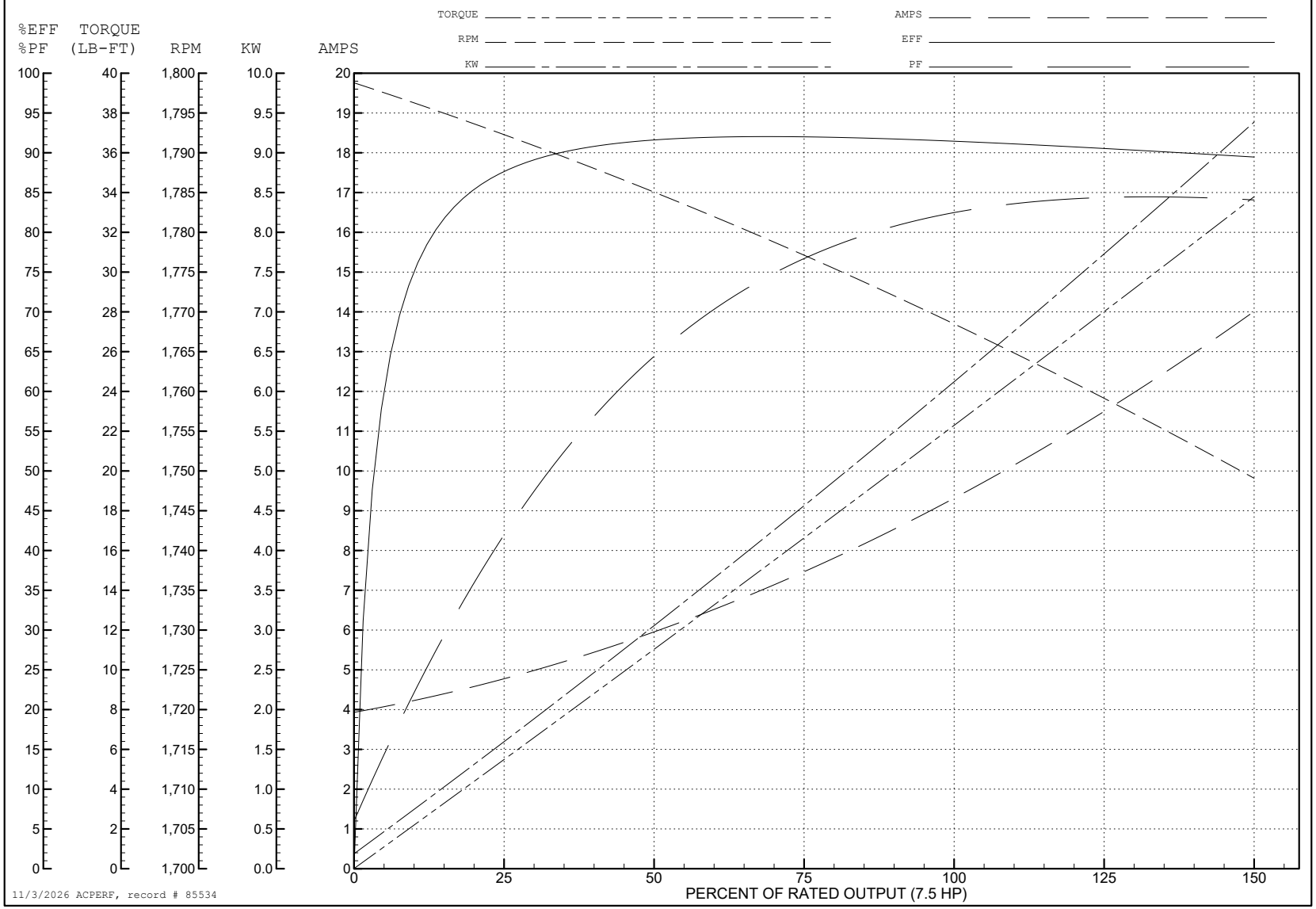
ABB Motors and Mechanical Inc.

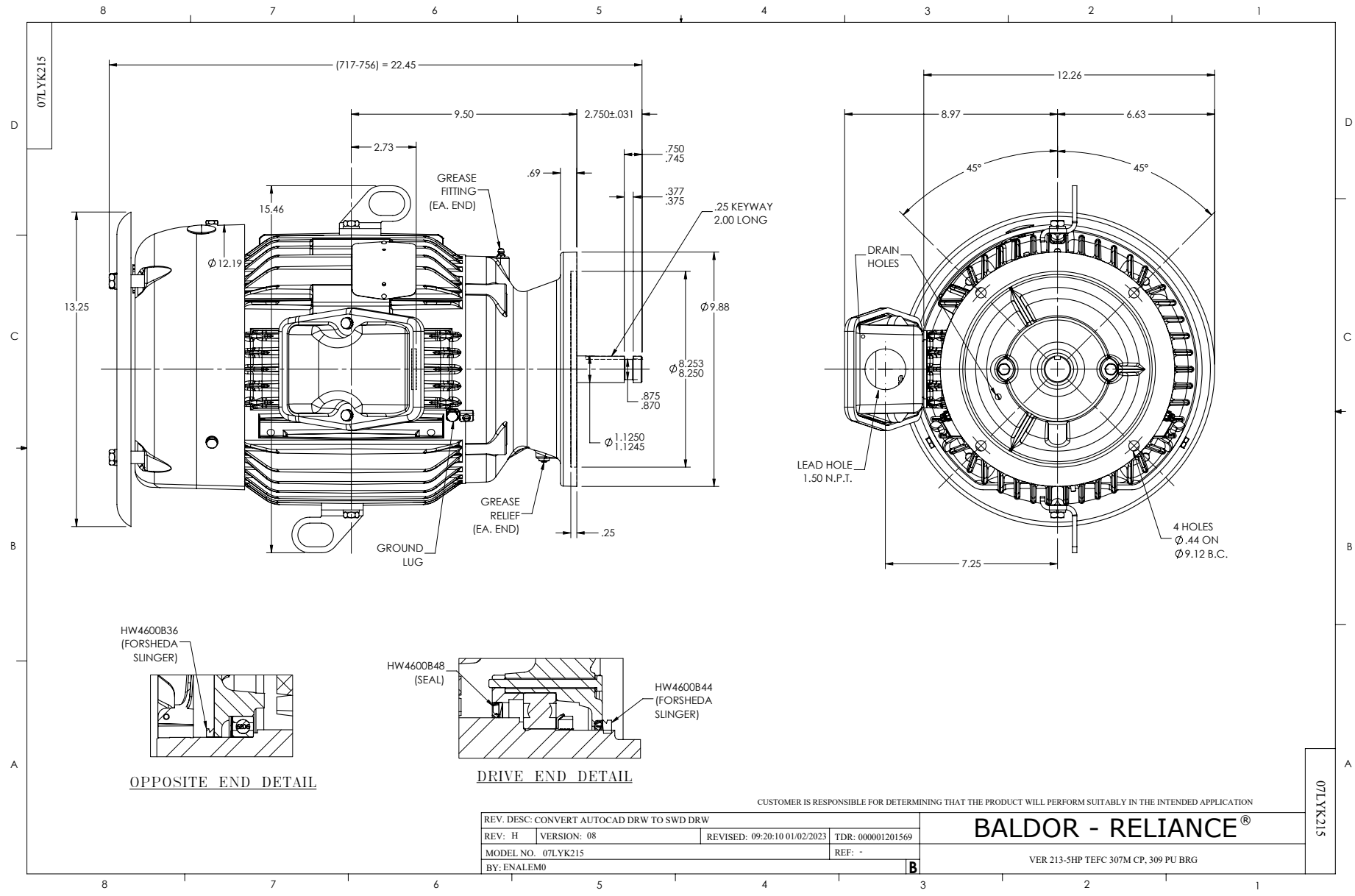
WINDING # 07WGT510

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

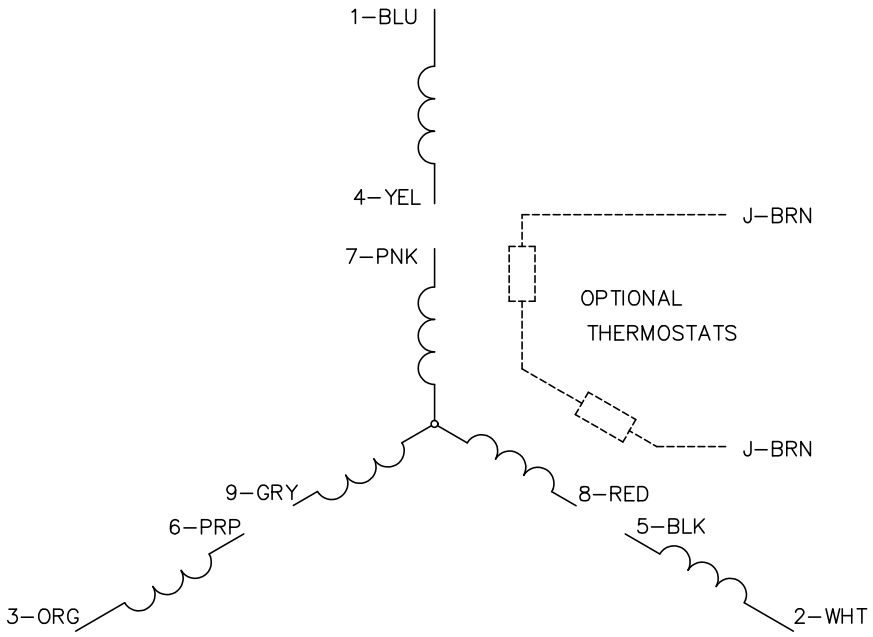
Typical performance - not guaranteed values.

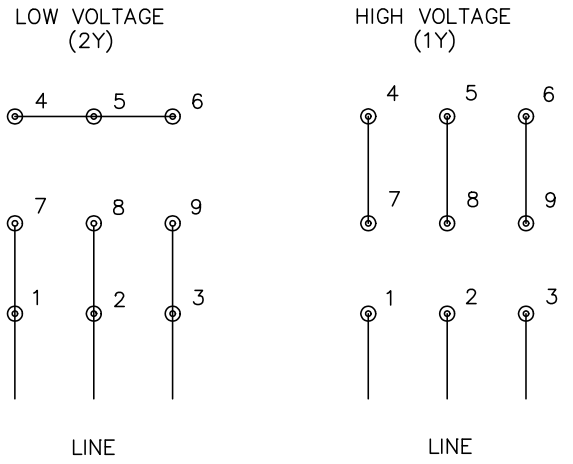
TORQUES(LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4




07LYK215
(717-756) = 22.45
9.50
2.750±.031
2.73
.69
.750
.745
.377
.375
GREASE FITTING (EA. END)
.25 KEYWAY 2.00 LONG
15.46
Ø12.19
13.25
Ø9.88
Ø8.253
8.250
.875
.870
Ø1.1250
1.1245
GREASE RELIEF (EA. END)
.25
GROUND LUG
12.26
8.97
6.63
45°
45°
DRAIN HOLES
LEAD HOLE 1.50 N.P.T.
4 HOLES Ø.44 ON Ø9.12 B.C.
7.25
HW4600B36 (FORSHEDA SLINGER)
OPPOSITE END DETAIL
HW4600B48 (SEAL)
HW4600B44 (FORSHEDA SLINGER)
DRIVE 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: H
VERSION: 08
REVISED: 09:20:10 01/02/2023
TDR: 000001201569
MODEL NO. 07LYK215
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 213-5HP TEFC 307M CP, 309 PU BRG
07LYK215

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