ABB BALDOR RELIANCE

Customer information packet

IDXM7147T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 0738M, XPFC
Class - CLI GP D
Division - Division I

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11/16/2026 12:28:03 AM

Specifications

Enclosure	XPFC
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
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	CSA
	CSA EEV
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	30
Current @ Voltage	19.000 A @ 230.0 V
	9.500 A @ 460.0 V
Design Code	A
Drip Cover	No 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	T2B

Part Detail

Revision	-
Type	AC
Mech. spec.	07H517
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYH517
Eff. date	02-18-2021
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 Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.69 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP0890XPSLEV											
NO.					**CC**	010A					
S/N					**TEMP CODE**	T2B					
SPEC.	07H517T510G1				**INV.TYPE**	PWM					
CAT.NO.	IDXM7147T				**C HP FR**	60	**C HP TO**	90			
HP	7.5				**CT HZ FROM**	30	**CT HZ TO**	60			
VOLTS	230/460				**VT HZ FROM**	6	**VT HZ TO**	60			
AMPS	19/9.5			**MAG CUR**	8.6/4.3						
RPM	1770			**MX RPM**	2700						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	0.934				
FRAME	213TC	**RATING**	40C AMB-CONT								
	75C RISE										

AC Induction Motor Performance Data
Record # 86636
Preliminary Data Sheet

Winding: 07WGT510-R009	**Type:** 0738M	**Enclosure:** XPFC

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
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	
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**
Power Factor	44	66	76	81	84	85
Efficiency	88	91.7	92.2	91.7	90.7	89.3
Speed	1792	1785	1777	1769	1759	1749
Line amperes	4.61	5.85	7.48	9.43	11.6	13.9

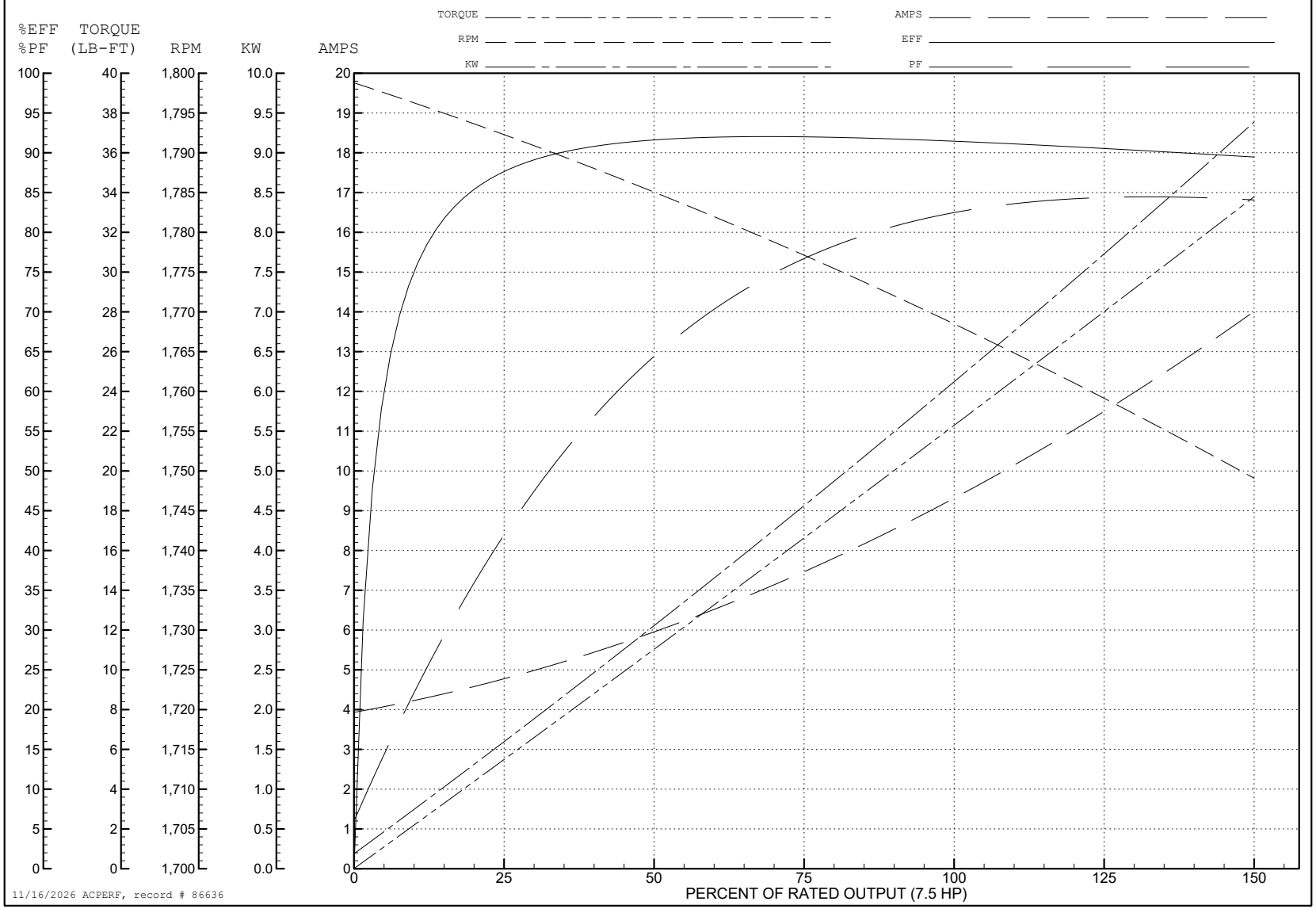
ABB Motors and Mechanical Inc.

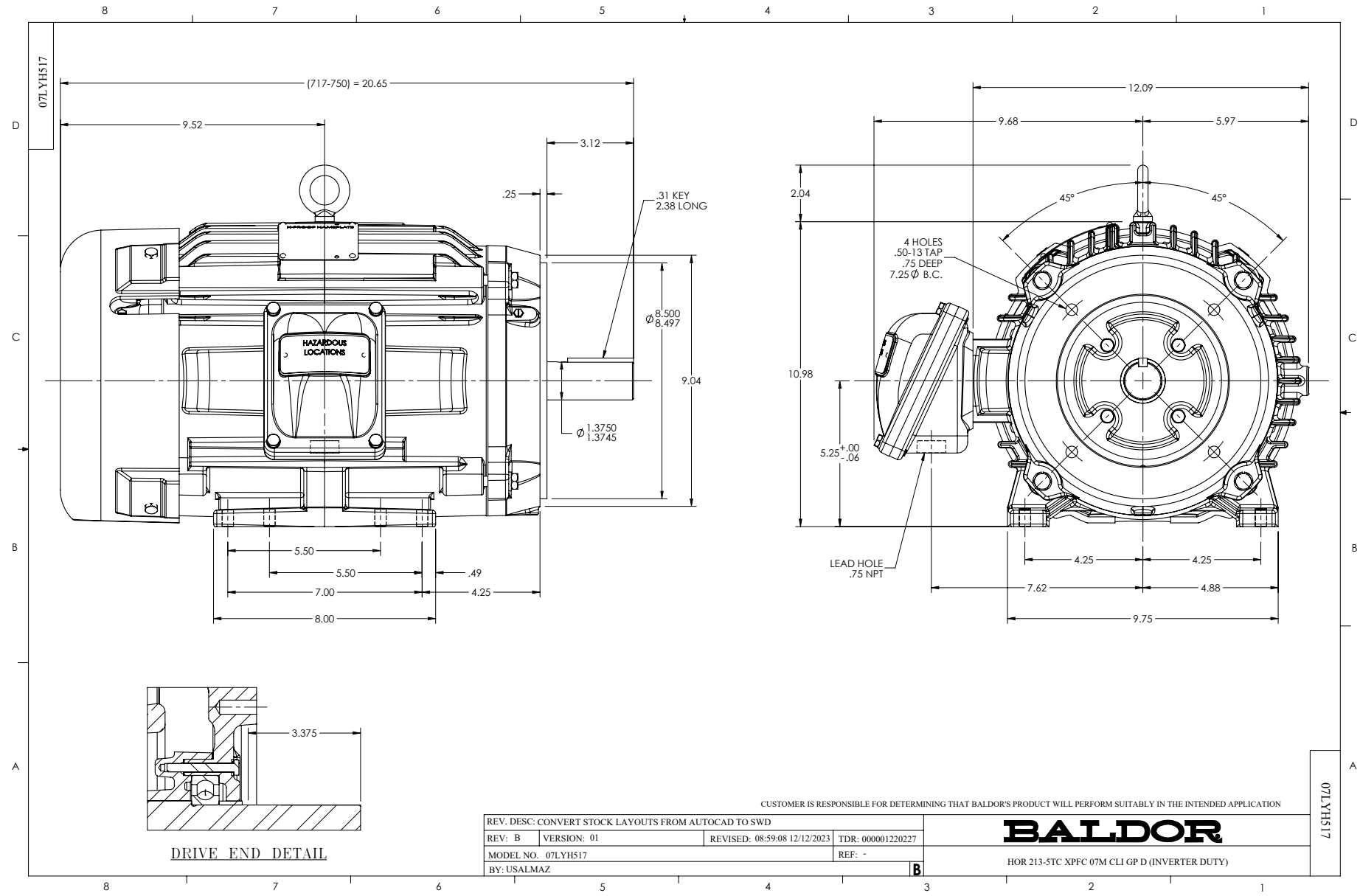
WINDING # 07WGT510

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

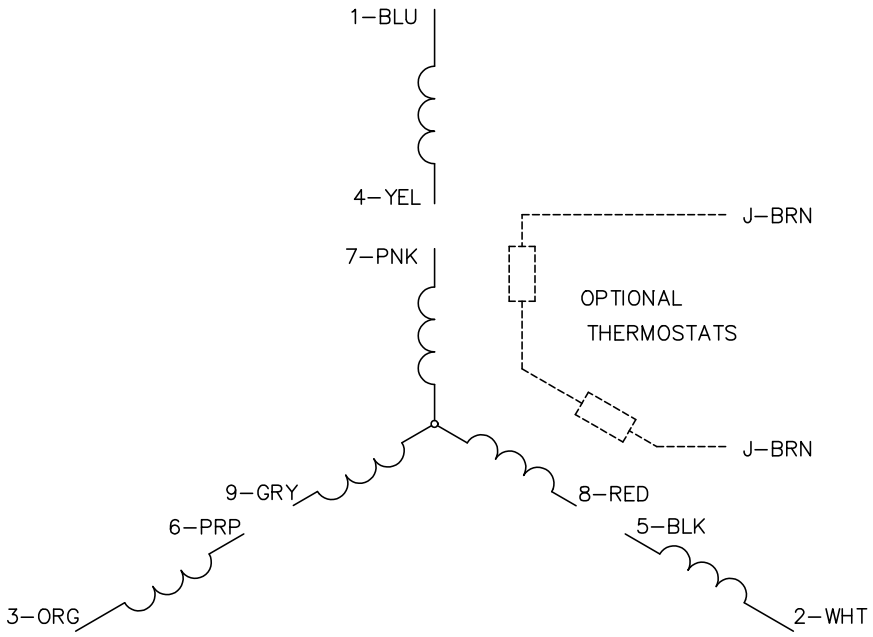
Typical performance - not guaranteed values.

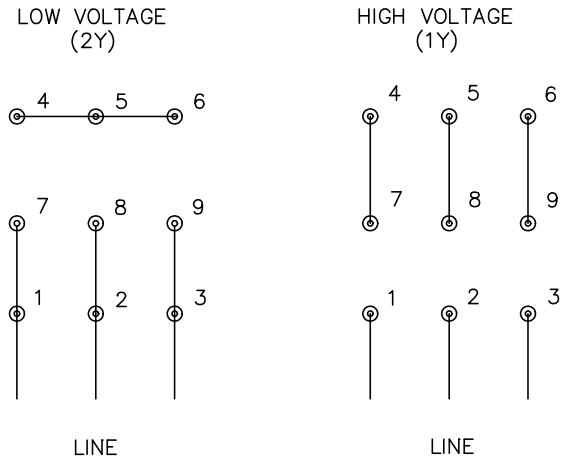
TORQUES(LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4




07LYH517
(717-750) = 20.65
9.52
3.12
.25
.31 KEY
2.38 LONG
HAZARDOUS LOCATIONS
Ø 8.500
8.497
9.04
Ø 1.3750
1.3745
5.50
5.50
.49
7.00
4.25
8.00
12.09
9.68
5.97
2.04
45°
45°
4 HOLES
.50-13 TAP
.75 DEEP
7.25 Ø B.C.
10.98
5.25 +.00 -.06
LEAD HOLE
.75 NPT
4.25
4.25
7.62
4.88
9.75
3.375
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: B
VERSION: 01
REVISED: 08:59:08 12/12/2023
TDR: 000001220227
MODEL NO. 07LYH517
REF: -
BY: USALMAZ
B
BALDOR
HOR 213-5TC XPFC 07M CLI GP D (INVERTER DUTY)
07LYH517

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