ABB BALDOR RELIANCE

Customer information packet

ECTM3770T

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

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Specifications

Enclosure	TEAO
Frame	213T
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
	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
Current @ Voltage	9.500 A @ 460.0 V
	19.000 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	07N391
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYN391
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

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	19.54 IN
Power Factor	81
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP2134									
CAT.NO.	ECTM3770T								
SPEC.	07N391T510G1								
HP	7.5 AIR OVER								
VOLTS	230/460								
AMP	19/9.5								
RPM	1770								
FRAME	213T	**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									
DE	6307	**ODE**	6206						
ENCL	TEAO	**SN**							
	1700 FPM 170 CFM								

AC Induction Motor Performance Data
Record # 86625
Preliminary Data Sheet

Winding: 07WGT510-R002	**Type:** 0738M	**Enclosure:** TEAO

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

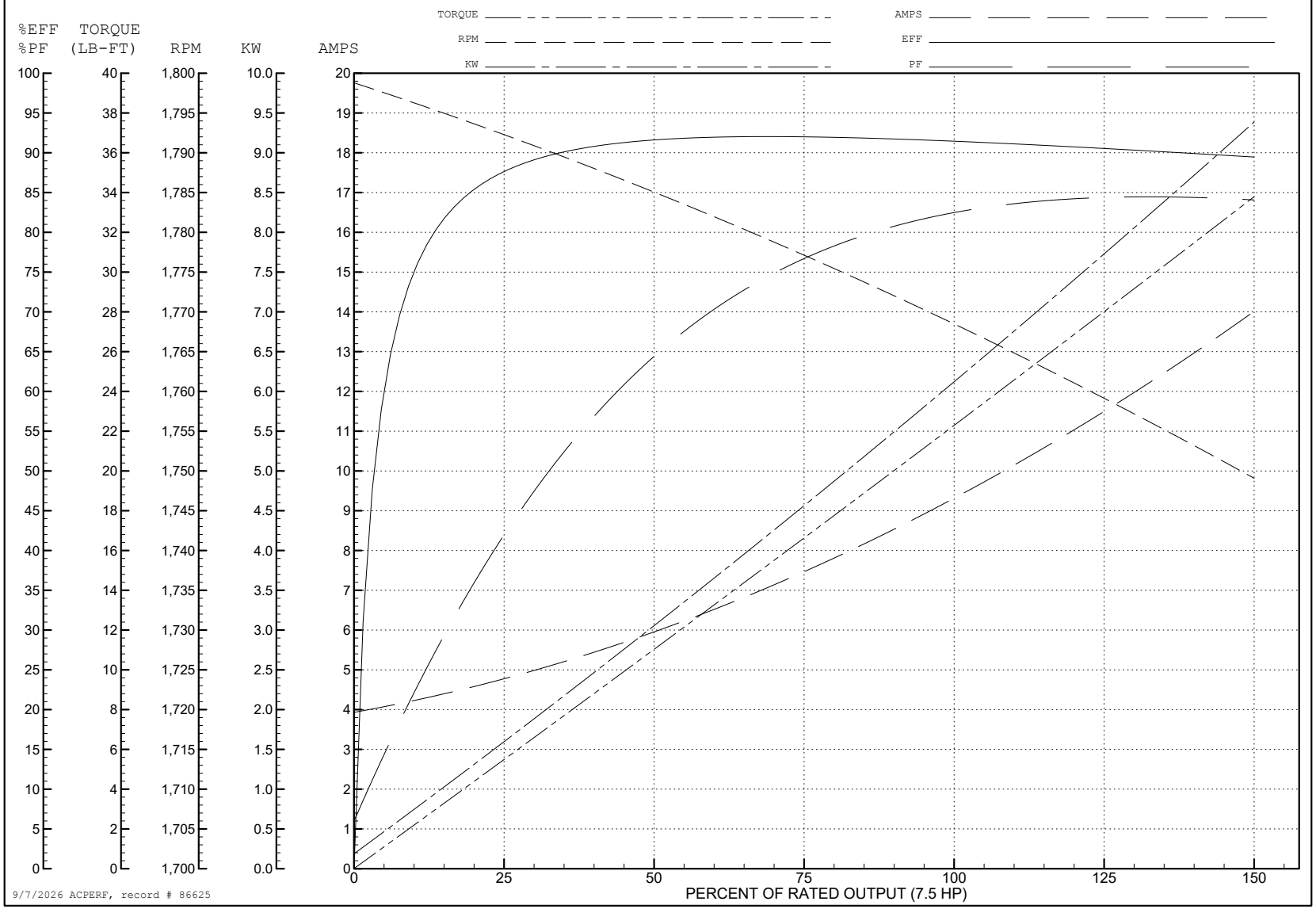
ABB Motors and Mechanical Inc.

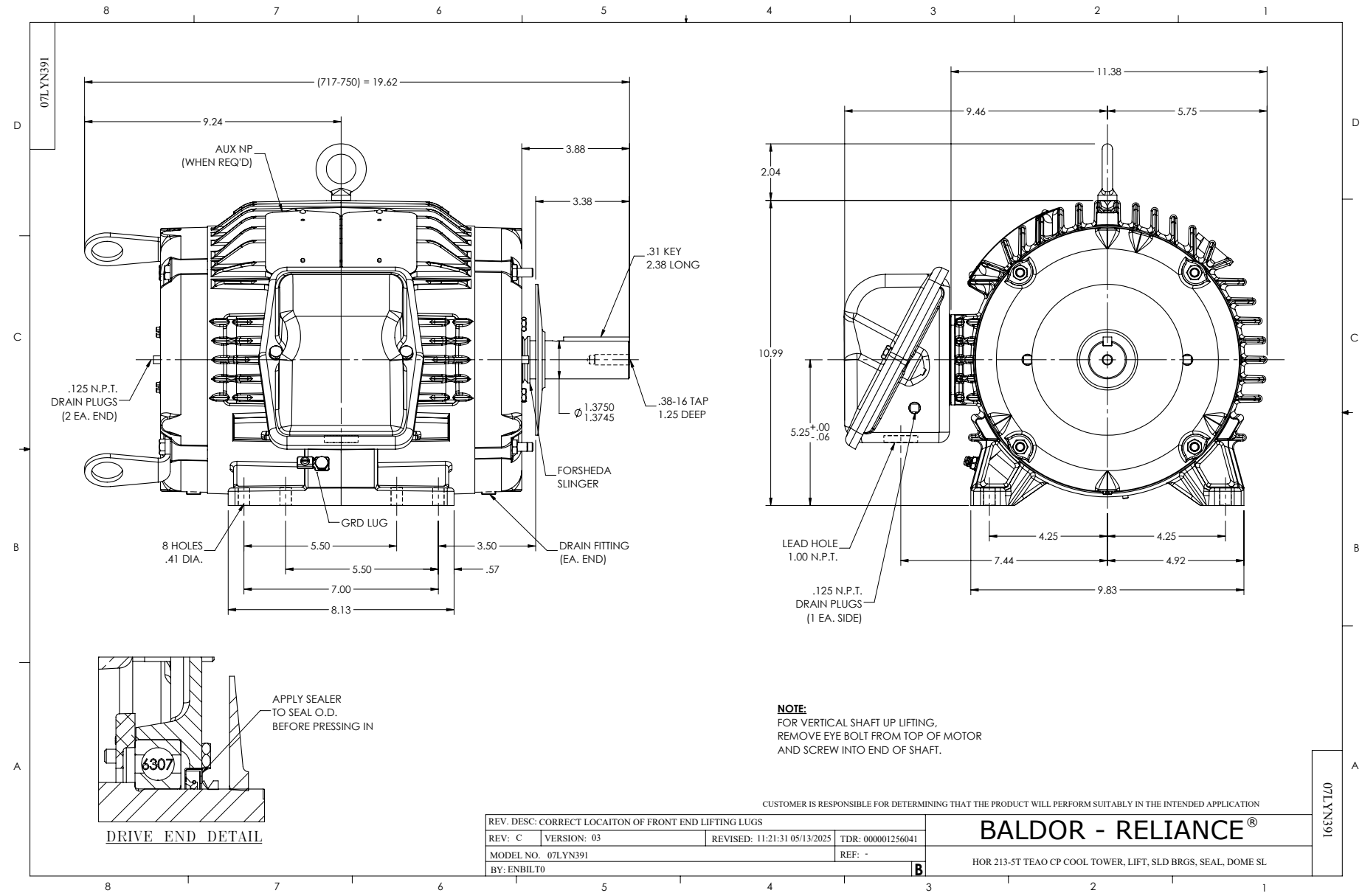
WINDING # 07WGT510

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

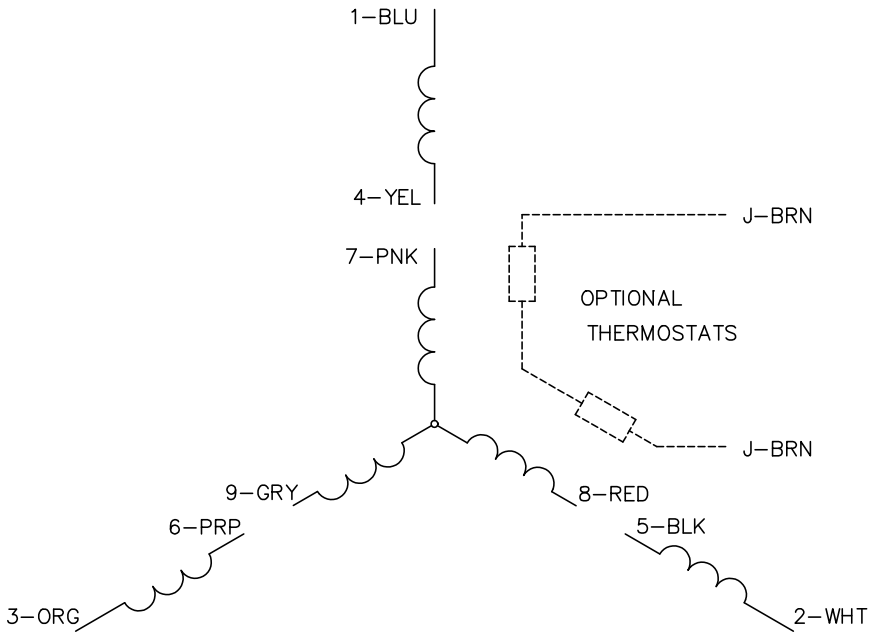
Typical performance - not guaranteed values.

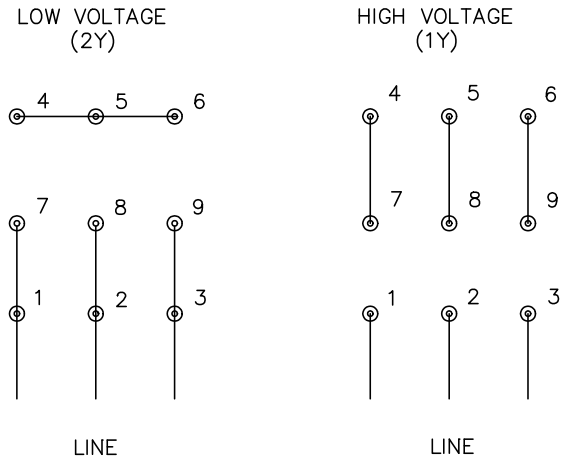
TORQUES(LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4




07LYN391
(717-750) = 19.62
9.24
AUX NP
(WHEN REQ'D)
3.88
3.38
.31 KEY
2.38 LONG
.125 N.P.T.
DRAIN PLUGS
(2 EA. END)
Ø 1.3750
1.3745
.38-16 TAP
1.25 DEEP
FORSHEDA
SLINGER
GRD LUG
8 HOLES
.41 DIA.
5.50
3.50
DRAIN FITTING
(EA. END)
5.50
.57
7.00
8.13
11.38
9.46
5.75
2.04
10.99
5.25 +.00 -.06
LEAD HOLE
1.00 N.P.T.
.125 N.P.T.
DRAIN PLUGS
(1 EA. SIDE)
4.25
4.25
7.44
4.92
9.83
APPLY SEALER
TO SEAL O.D.
BEFORE PRESSING IN
6307
DRIVE END DETAIL
NOTE:
FOR VERTICAL SHAFT UP LIFTING,
REMOVE EYE BOLT FROM TOP OF MOTOR
AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT LOCAITON OF FRONT END LIFTING LUGS
REV: C
VERSION: 03
REVISED: 11:21:31 05/13/2025
TDR: 000001256041
MODEL NO. 07LYN391
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HOR 213-5T TEAO CP COOL TOWER, LIFT, SLD BRGS, SEAL, DOME SL
07LYN391

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