ABB BALDOR RELIANCE

Customer information packet

CTM3770T

7.5 AIR OVERHP, 1760RPM, 3PH, 60HZ, 213T, 073
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	208.0 V @ 60 HZ
	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	20.900 A @ 208.0 V
	20.000 A @ 230.0 V
	10.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	07N391
Base	
Status	PRD/A
Elec. spec.	07WGT575
Layout	07LYN391
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-21-2023

High Voltage Full Load Amps	10.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
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	0730M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.54 IN
Power Factor	79
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	1760 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

NP1258									
CAT.NO.	CTM3770T								
SPEC.	07N391T575H1								
HP	7.5 AIR OVER								
VOLTS	208-230/460								
AMP	20.9-20/10								
RPM	1760								
FRAME	213T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A		**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	79						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEAO	**SN**							
	1700 FPM 170 CFM								

AC Induction Motor Performance Data
Record # 99021
Typical performance - not guaranteed values

Winding: 07WGT575-R001	**Type:** 0730M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5 AIR OVER	**Full Load Torque**	22.24 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			20.9-20/10	**Breakdown Torque**	65.3 LB-FT
R.P.M.			1760	**Pull-up Torque**	29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	43.2 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	66.1 A
Service Factor (S.F.)			1.15	**No-load Current**	5.15 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	1.71 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	79°C
				Locked-rotor Power Factor	40
				Rotor inertia	0.738 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	59	71	77	80	82	79
Efficiency	80.7	87.7	89.5	90.1	89	87.1	89.4
Speed	1791	1783	1773	1763	1752	1741	1756
Line amperes	5.52	6.62	8.23	10.09	12.23	14.56	11.4

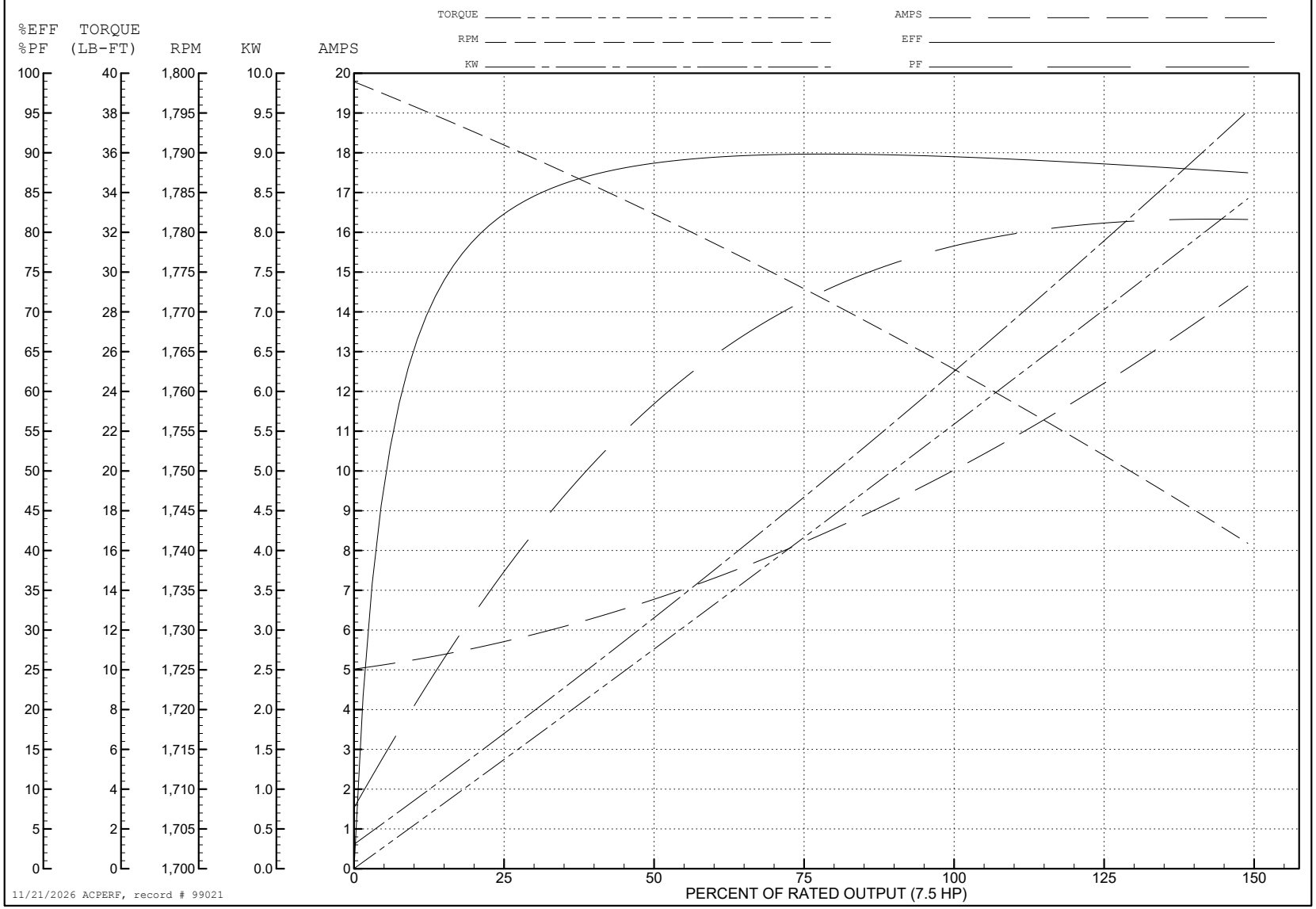
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WINDING # 07WGT575

7.5 HP 3 PH 60 HZ 1760 RPM 460 V 0730M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=65.3 PU=29 LR=43.2 LRA=66.1



AC Induction Motor Performance Data
Record # 99022
Typical performance - not guaranteed values

Winding: 07WGT575-R001	**Type:** 0730M	**Enclosure:** TEAO

Nameplate Data				**208 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5 AIR OVER	**Full Load Torque**	22.3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			20.9-20/10	**Breakdown Torque**	52.6 LB-FT
R.P.M.			1760	**Pull-up Torque**	26.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	38 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	117 A
Service Factor (S.F.)			1.15	**No-load Current**	8.07 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.427 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	40
				Rotor inertia	0.738 lb-ft²

Load Characteristics 208 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	79	82	84	84	83
Efficiency	83.6	89	90	90	88.4	85.9	89
Speed	1790	1780	1769	1757	1743	1728	1749
Line amperes	9.27	12.28	16.31	20.9	26.13	31.92	24

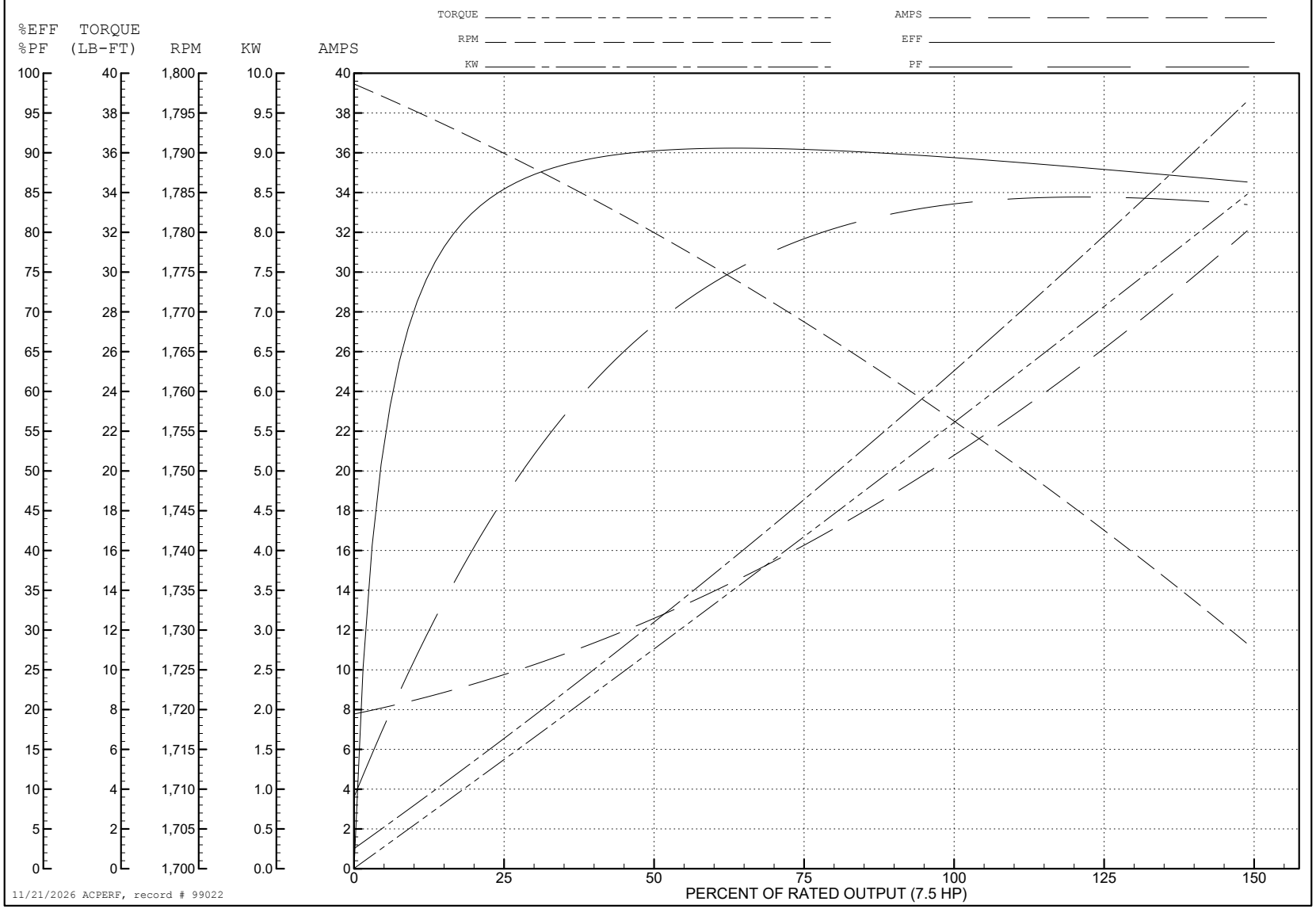
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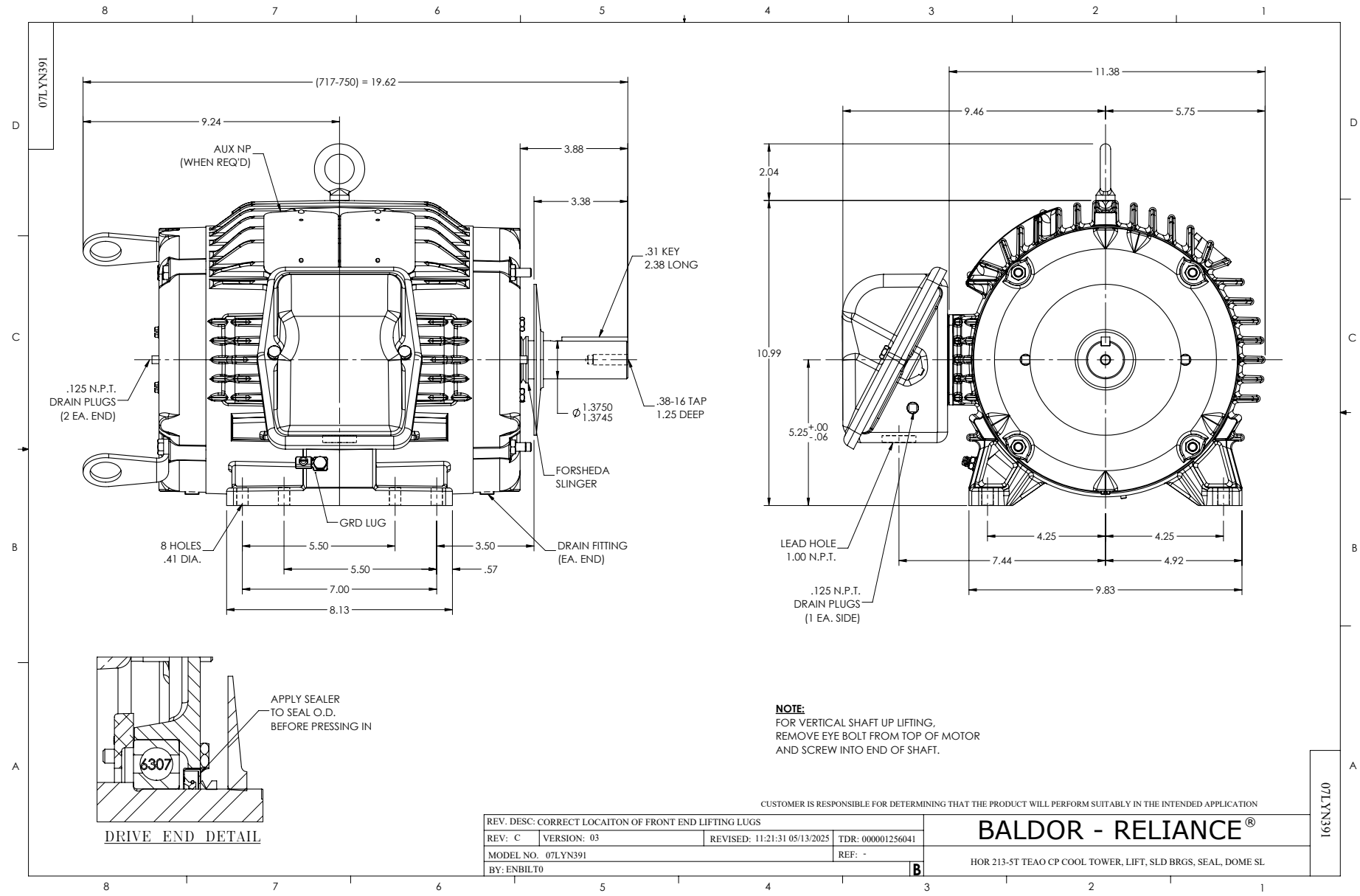
WINDING # 07WGT575

7.5 HP 3 PH 60 HZ 1760 RPM 208 V 0730M

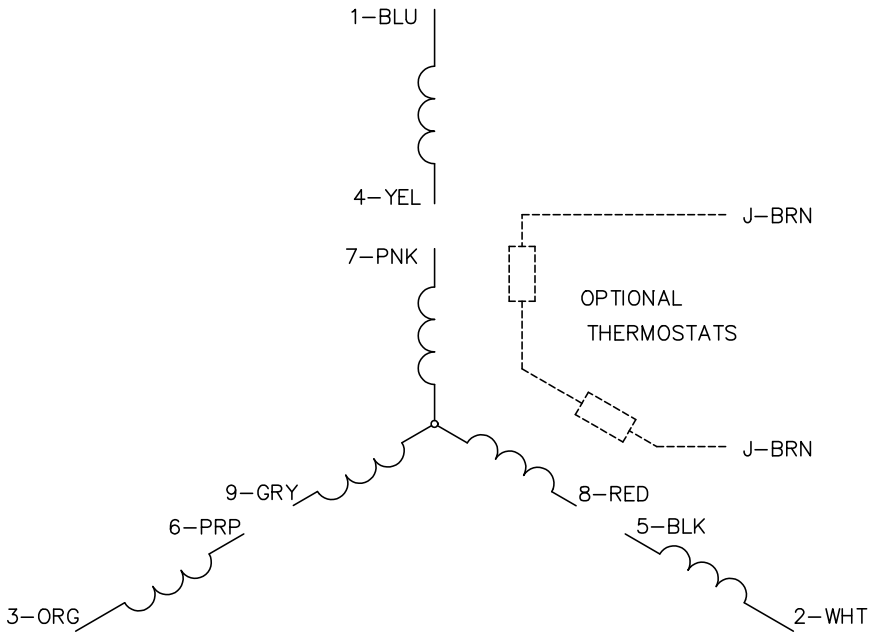
Typical performance - not guaranteed values.

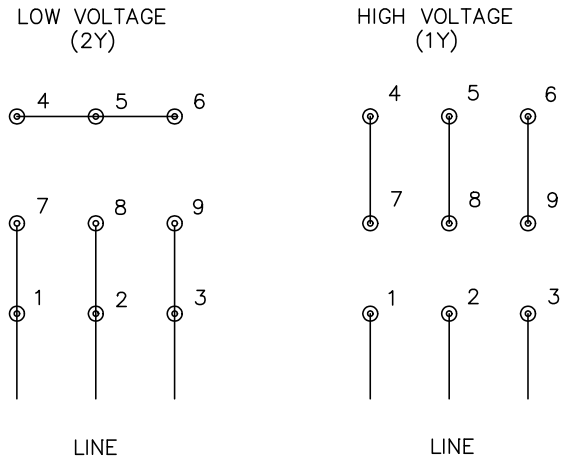
TORQUES(LB-FT): PO=52.6 PU=26.5 LR=38 LRA=117




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