ABB BALDOR RELIANCE

Customer information packet

ECTM3704T-G-AO

3 AIR OVERHP, 1160RPM, 3PH, 60HZ, 213T, 3738M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	213T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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	9.600 A @ 208.0 V
	9.200 A @ 230.0 V
	4.600 A @ 460.0 V
Design Code	B
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

Part Detail

Revision	E
Type	AC
Mech. spec.	37T571
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYT571
Eff. date	09-16-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-01-2022

Heater Indicator	Heater Included, 120 V
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.18 IN
Power Factor	68
Product Family	Chemical Process Features
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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

NP2178								
CAT.NO.	ECTM3704T-G-AO							
SPEC.	37T571S519G1							
HP	3 AIR OVER							
VOLTS	230/460							
AMP	9.2/4.6							
RPM	1160							
FRAME	213T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F	
NEMA-NOM-EFF	89.5	**PF**	68					
RATING	40C AMB-CONT							
CC								
DE	6307	**ODE**	6206					
ENCL	TEAO	**SN**						
	INV DUT 20:1 VT							

AC Induction Motor Performance Data
Record # 92595
Typical performance - not guaranteed values

Winding: 37WGS519-R060	**Type:** 3738M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6	**Breakdown Torque**	50.4 LB-FT
R.P.M.			1160	**Pull-up Torque**	31.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34 A
Service Factor (S.F.)			1.15	**No-load Current**	2.56 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps			10.2/5.1	**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	71
Efficiency	82	88.5	89.4	89.7	89	87.5	89.3
Speed	1193	1186	1178	1170	1160	1149	1164
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.08

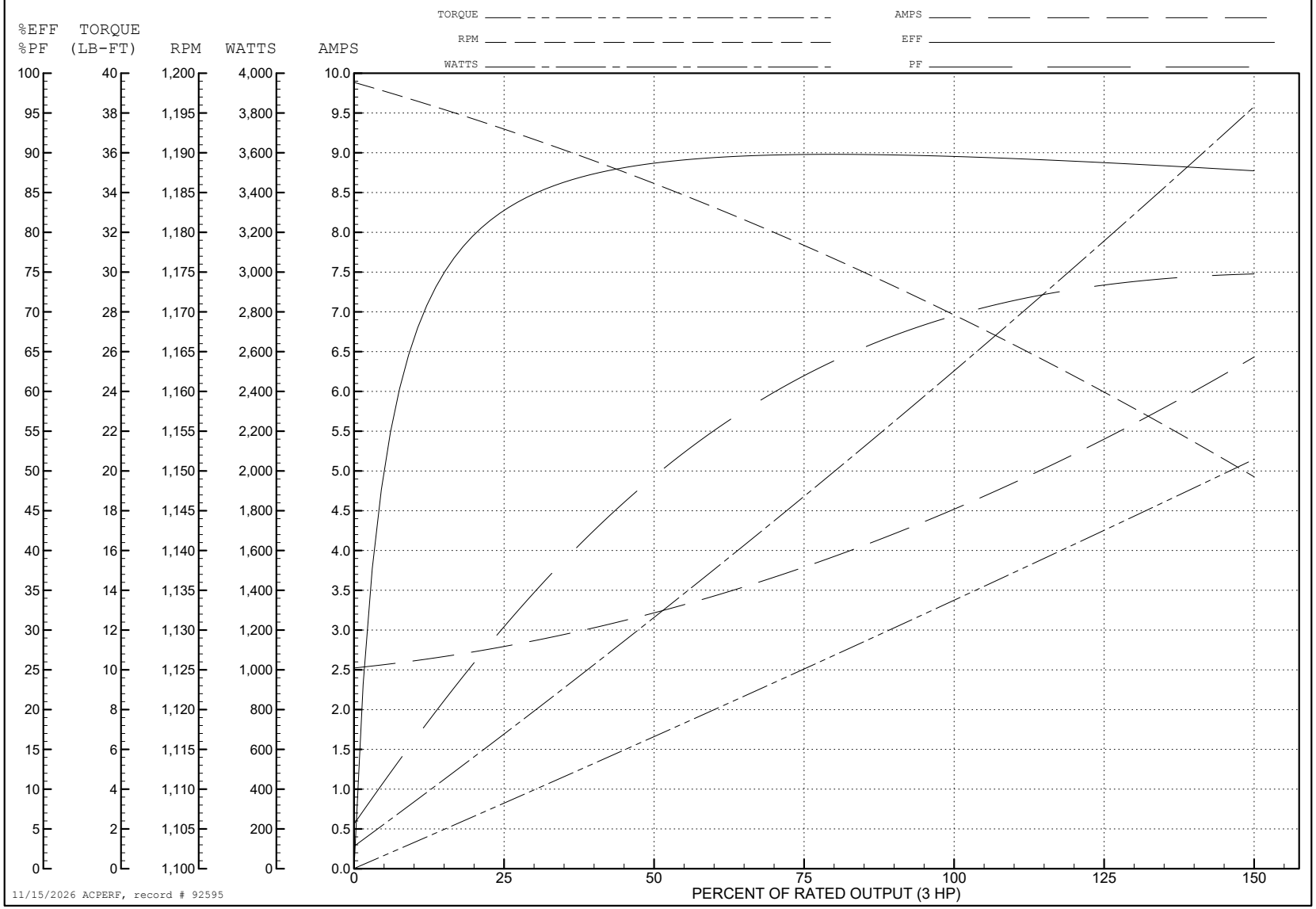
ABB Motors and Mechanical Inc.

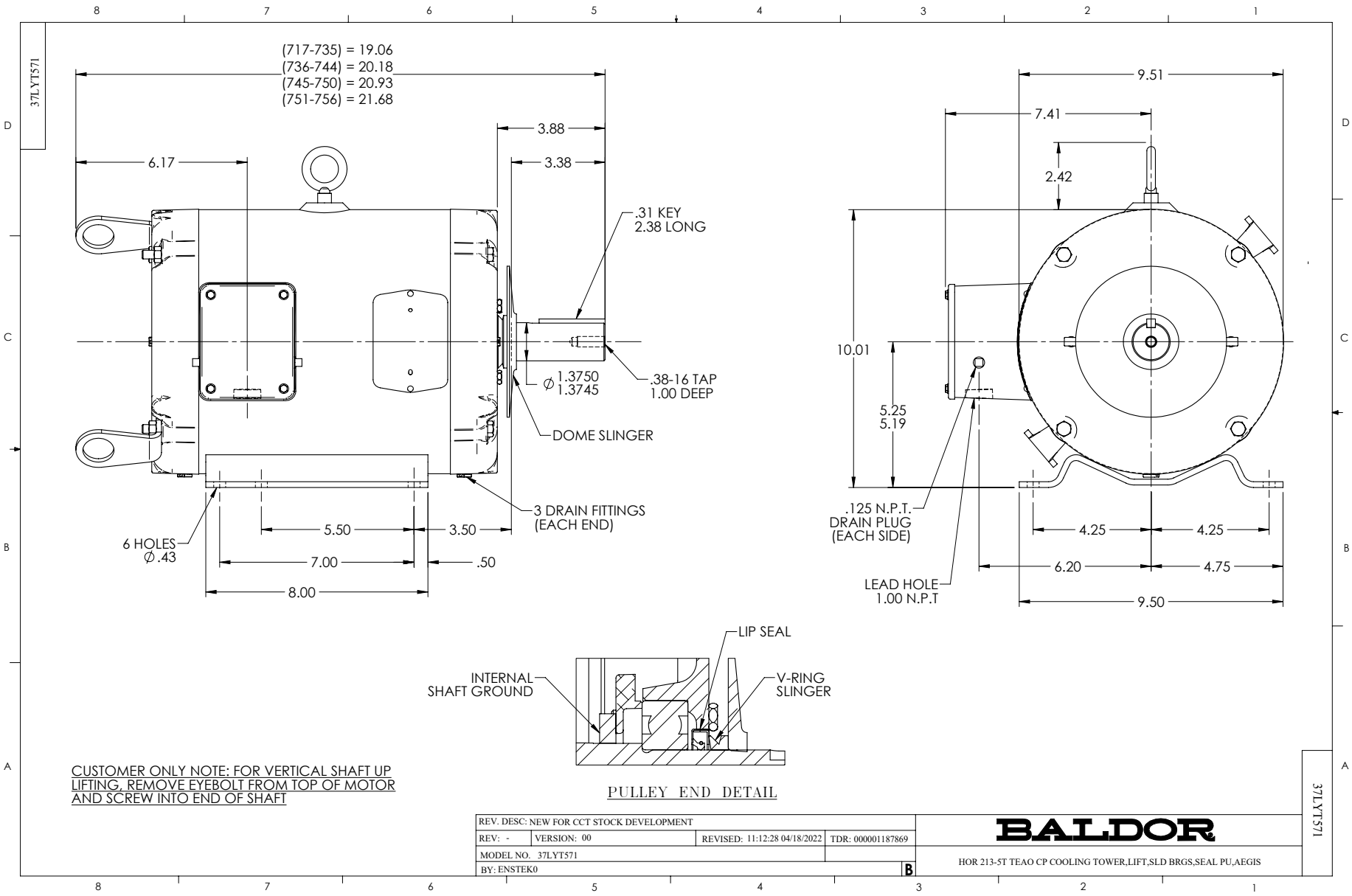
WINDING # 37WGS519

3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M

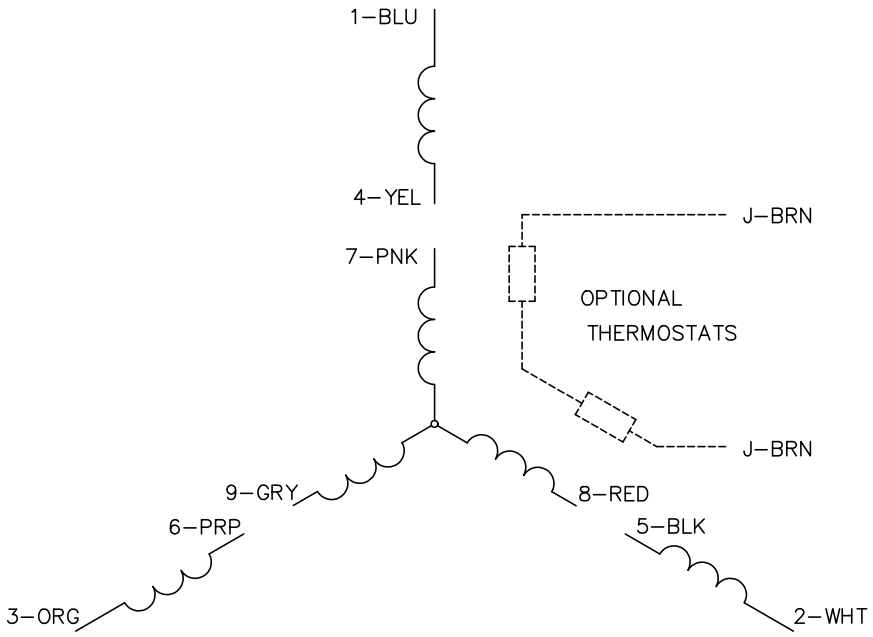
Typical performance - not guaranteed values.

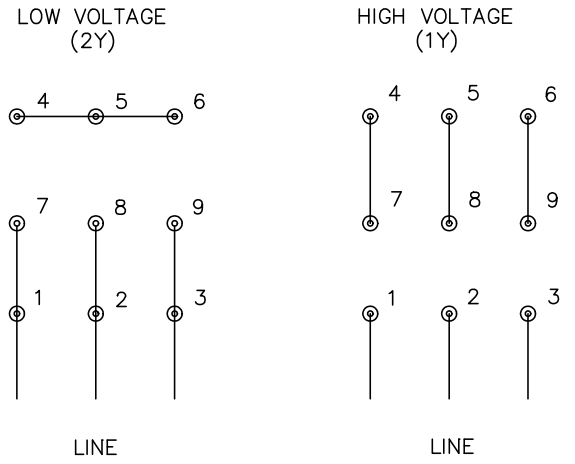
TORQUES(LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34




37LYT571
(717-735) = 19.06
(736-744) = 20.18
(745-750) = 20.93
(751-756) = 21.68
3.88
6.17
3.38
.31 KEY
2.38 LONG
Ø1.3750
1.3745
.38-16 TAP
1.00 DEEP
DOME SLINGER
3 DRAIN FITTINGS
(EACH END)
6 HOLES
Ø.43
5.50
3.50
7.00
.50
8.00
9.51
7.41
2.42
10.01
5.25
5.19
.125 N.P.T.
DRAIN PLUG
(EACH SIDE)
4.25
4.25
6.20
4.75
LEAD HOLE
1.00 N.P.T
9.50
LIP SEAL
INTERNAL
SHAFT GROUND
V-RING
SLINGER
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 11:12:28 04/18/2022 TDR: 000001187869
MODEL NO. 37LYT571
BY: ENSTEK0
B
BALDOR
HOR 213-5T TEAO CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
37LYT571

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