ABB BALDOR RELIANCE

Customer information packet

CTM2333T

15HP, 1760RPM, 3PH, 60HZ, 254T, 0756M, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	254T
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	15.000 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	40.000 A @ 208.0 V
	38.000 A @ 230.0 V
	19.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	A
Type	AC
Mech. spec.	07N393
Base	
Status	PRD/A
Elec. spec.	07WGT572
Layout	07LYN393
Eff. date	08-17-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	03-17-2023

High Voltage Full Load Amps	19.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.16 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	1.625 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.	CTM2333T								
SPEC.	07N393T572G1								
HP	15								
VOLTS	208-230/460								
AMP	40-38/19								
RPM	1760								
FRAME	254T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91	**PF**	81						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6206						
ENCL	TEAO	**SN**							
	1700 FPM AT 170CFM								

AC Induction Motor Performance Data
Record # 99014
Typical performance - not guaranteed values

Winding: 07WGT572-R001	**Type:** 0756M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.57 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			40-38/19	**Breakdown Torque**	168 LB-FT
R.P.M.			1760	**Pull-up Torque**	64.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	102 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	149 A
Service Factor (S.F.)			1.15	**No-load Current**	8.11 A
NEMA Nom. Eff.	91	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.648 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	79°C
				Locked-rotor Power Factor	35.9
				Rotor inertia	1.38 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	65	76	81	83	84	82
Efficiency	87.6	91.3	91.9	91.3	90.4	89.1	90.8
Speed	1791	1783	1775	1765	1754	1743	1758
Line amperes	9.13	11.65	14.96	19	23.28	28.06	21.6

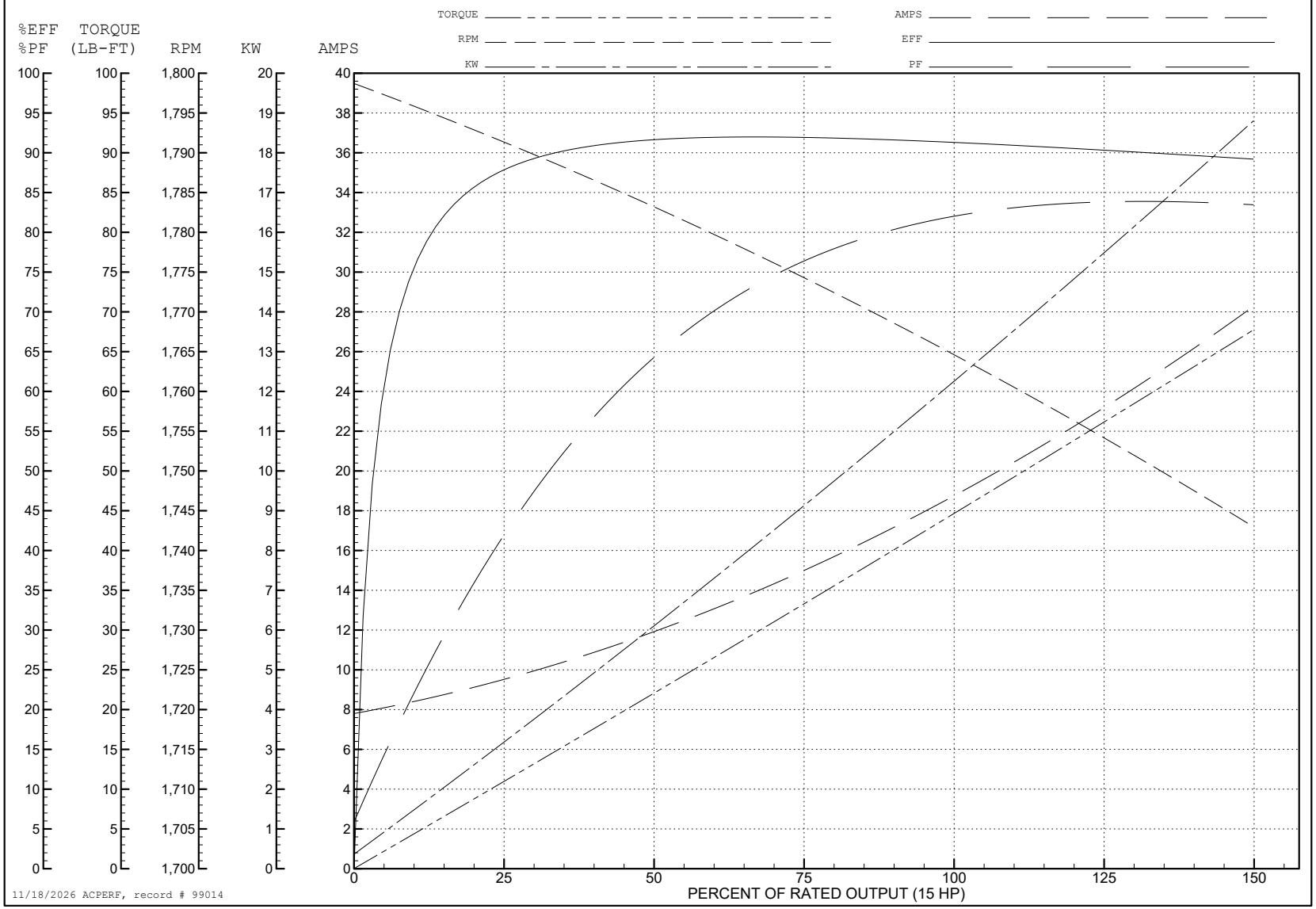
ABB Motors and Mechanical Inc.

WINDING # 07WGT572

15 HP 3 PH 60 HZ 1760 RPM 460 V 0756M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=168 PU=64.6 LR=102 LRA=149



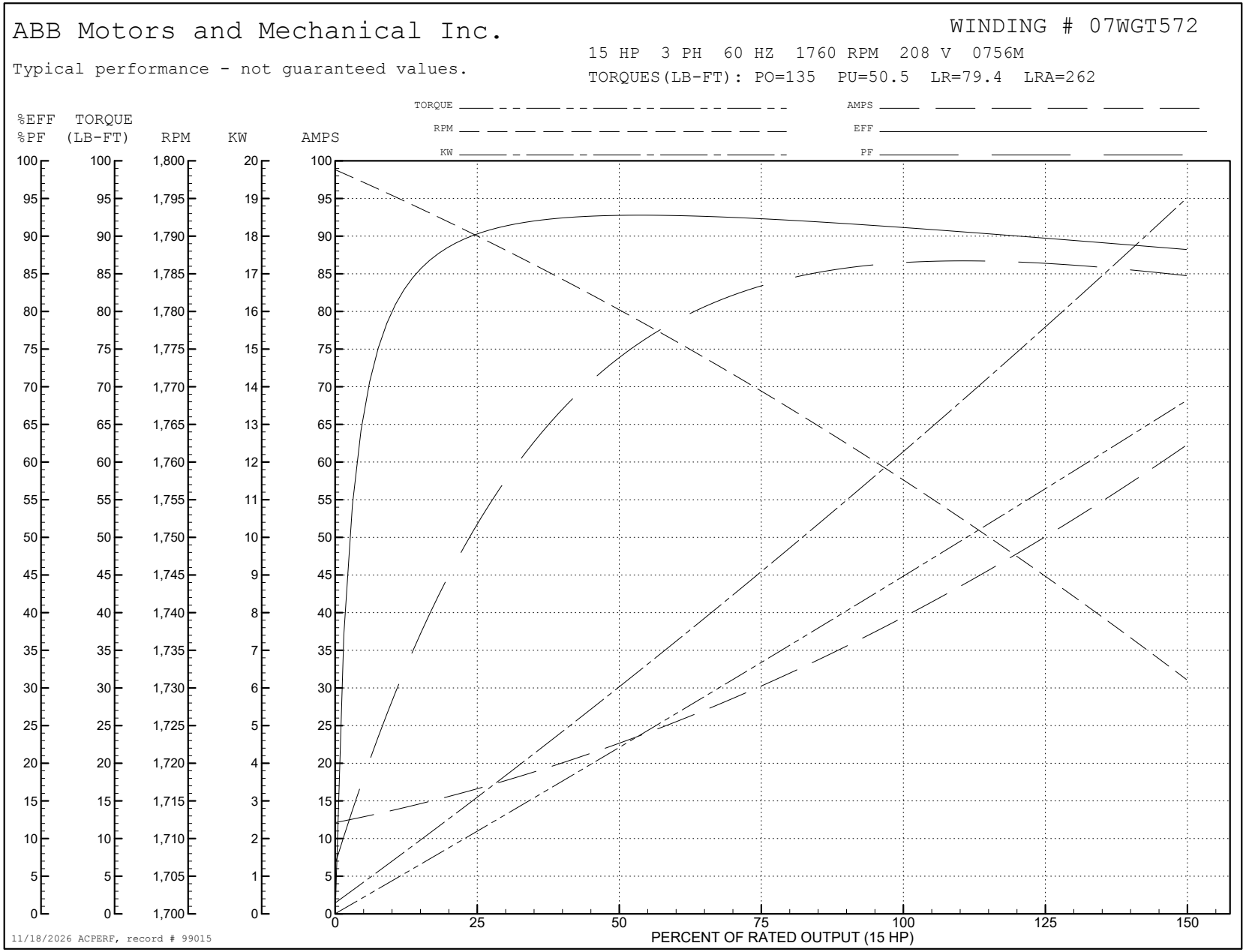
AC Induction Motor Performance Data
Record # 99015
Typical performance - not guaranteed values

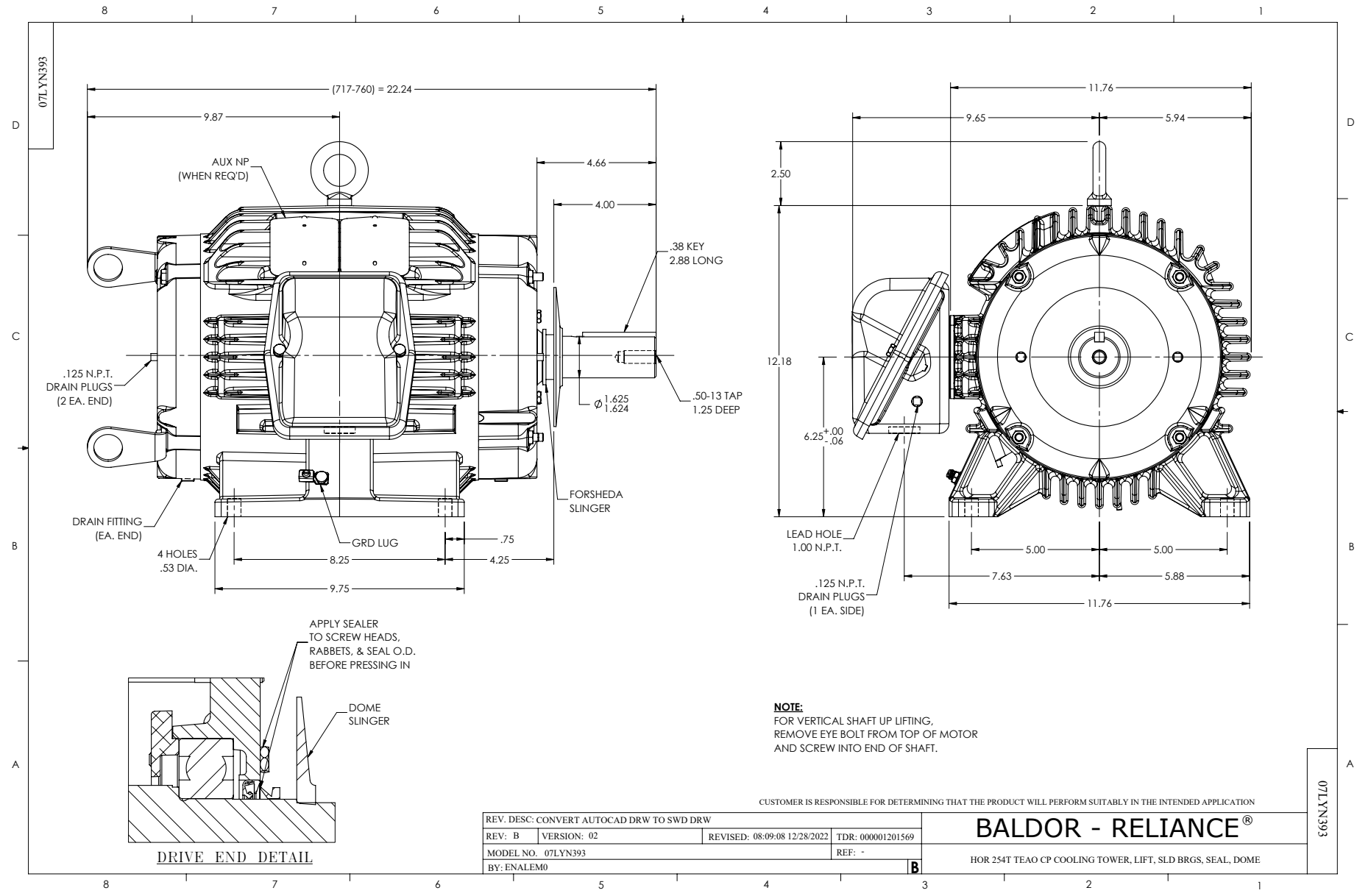
Winding: 07WGT572-R001	**Type:** 0756M	**Enclosure:** TEAO

Nameplate Data				**208 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.73 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			40-38/19	**Breakdown Torque**	135 LB-FT
R.P.M.			1760	**Pull-up Torque**	50.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	79.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	262 A
Service Factor (S.F.)			1.15	**No-load Current**	12.83 A
NEMA Nom. Eff.	91	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.162 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	35.9
				Rotor inertia	1.38 lb-ft²

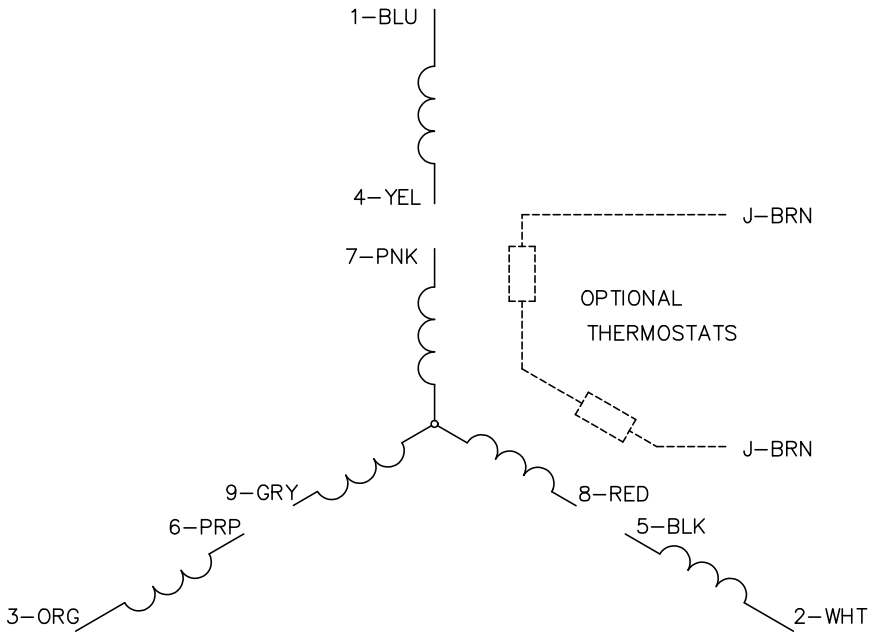
Load Characteristics 208 V, 60 Hz, 15 HP

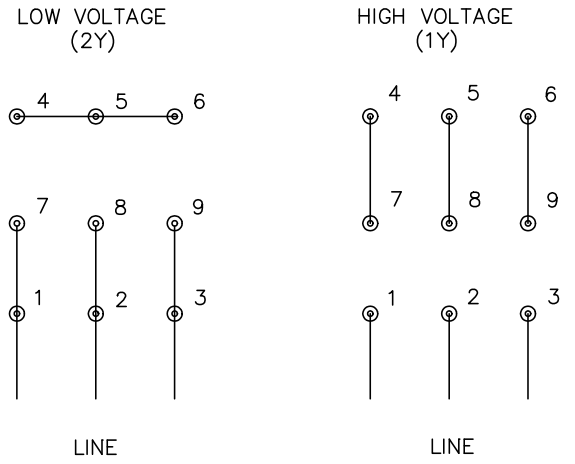
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	82	85	86	85	86
Efficiency	90	92.4	92.3	91.2	89.9	88.1	90.4
Speed	1790	1780	1770	1758	1745	1731	1750
Line amperes	15.62	22.09	30.24	39.89	50.16	61.84	46.1


ABB Motors and Mechanical Inc.
WINDING # 07WGT572
15 HP 3 PH 60 HZ 1760 RPM 208 V 0756M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=135 PU=50.5 LR=79.4 LRA=262
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/18/2026 ACPERF, record # 99015


07LYN393
(717-760) = 22.24
9.87
AUX NP
(WHEN REQ'D)
4.66
4.00
.38 KEY
2.88 LONG
.125 N.P.T.
DRAIN PLUGS
(2 EA. END)
Ø 1.625
1.624
.50-13 TAP
1.25 DEEP
FORSHEDA
SLINGER
DRAIN FITTING
(EA. END)
GRD LUG
.75
4 HOLES
.53 DIA.
8.25
4.25
9.75
11.76
9.65
5.94
2.50
12.18
6.25 +.00 -.06
LEAD HOLE
1.00 N.P.T.
5.00
5.00
7.63
5.88
.125 N.P.T.
DRAIN PLUGS
(1 EA. SIDE)
11.76
APPLY SEALER
TO SCREW HEADS,
RABBETS, & SEAL O.D.
BEFORE PRESSING IN
DOME
SLINGER
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: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 08:09:08 12/28/2022
TDR: 000001201569
MODEL NO. 07LYN393
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 254T TEAO CP COOLING TOWER, LIFT, SLD BRGS, SEAL, DOME
07LYN393

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