ABB BALDOR RELIANCE

Customer information packet

ECTM3770T-5G

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

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Specifications

Enclosure	TEFC
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	575.0 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	7.500 A @ 575.0 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	Heater Included, 115 V
High Voltage Full Load Amps	7.5 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	07D718
Base	
Status	PRD/A
Elec. spec.	07WGX817
Layout	07LYD718
Eff. date	06-08-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	04-20-2022

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.58 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
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	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

NP1260									
CAT.NO.	ECTM3770T-5G								
SPEC.	07D718X817G1								
HP	7.5								
VOLTS	575								
AMP	7.5								
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	TEFC	**SN**							
	INV DUTY 20:1 VT								

AC Induction Motor Performance Data
Record # 26661
Typical performance - not guaranteed values

Winding: 07WGX817-R001	**Type:** 0738M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.1 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			7.5	**Breakdown Torque**	73 LB-FT
R.P.M.			1770	**Pull-up Torque**	33.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	44.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	58.7 A
Service Factor (S.F.)			1.15	**No-load Current**	3.66 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	42°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	37.9
				Rotor inertia	0.934 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	73	79	82	84	82
Efficiency	86.9	91.4	92.2	91.7	90.9	89.7	90.9
Speed	1793	1786	1779	1771	1761	1751	1764
Line amperes	4.07	4.98	6.23	7.7	9.4	11.2	8.58

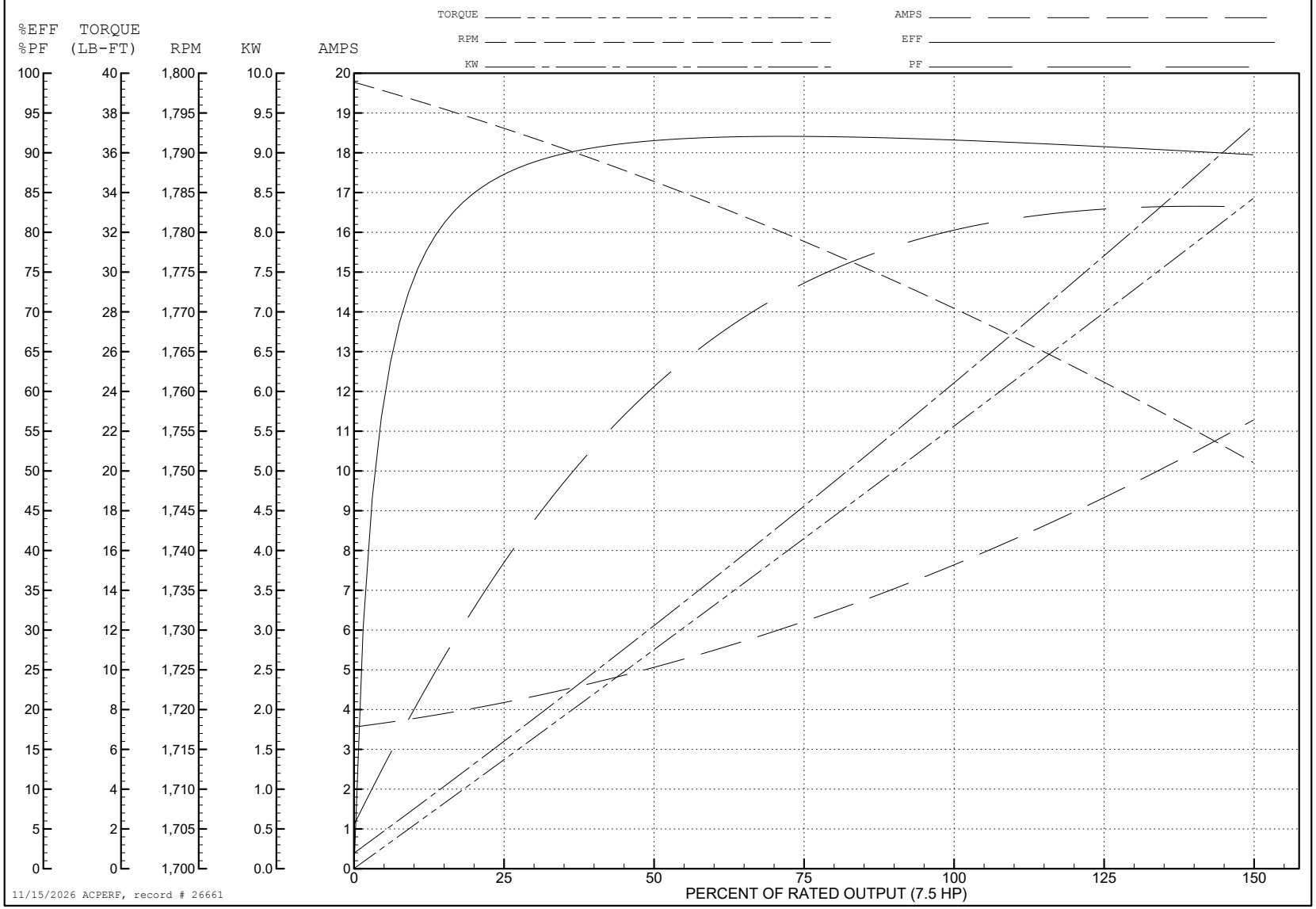
ABB Motors and Mechanical Inc.

WINDING # 07WGX817

7.5 HP 3 PH 60 HZ 1770 RPM 575 V 0738M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=73 PU=33.7 LR=44.4 LRA=58.7



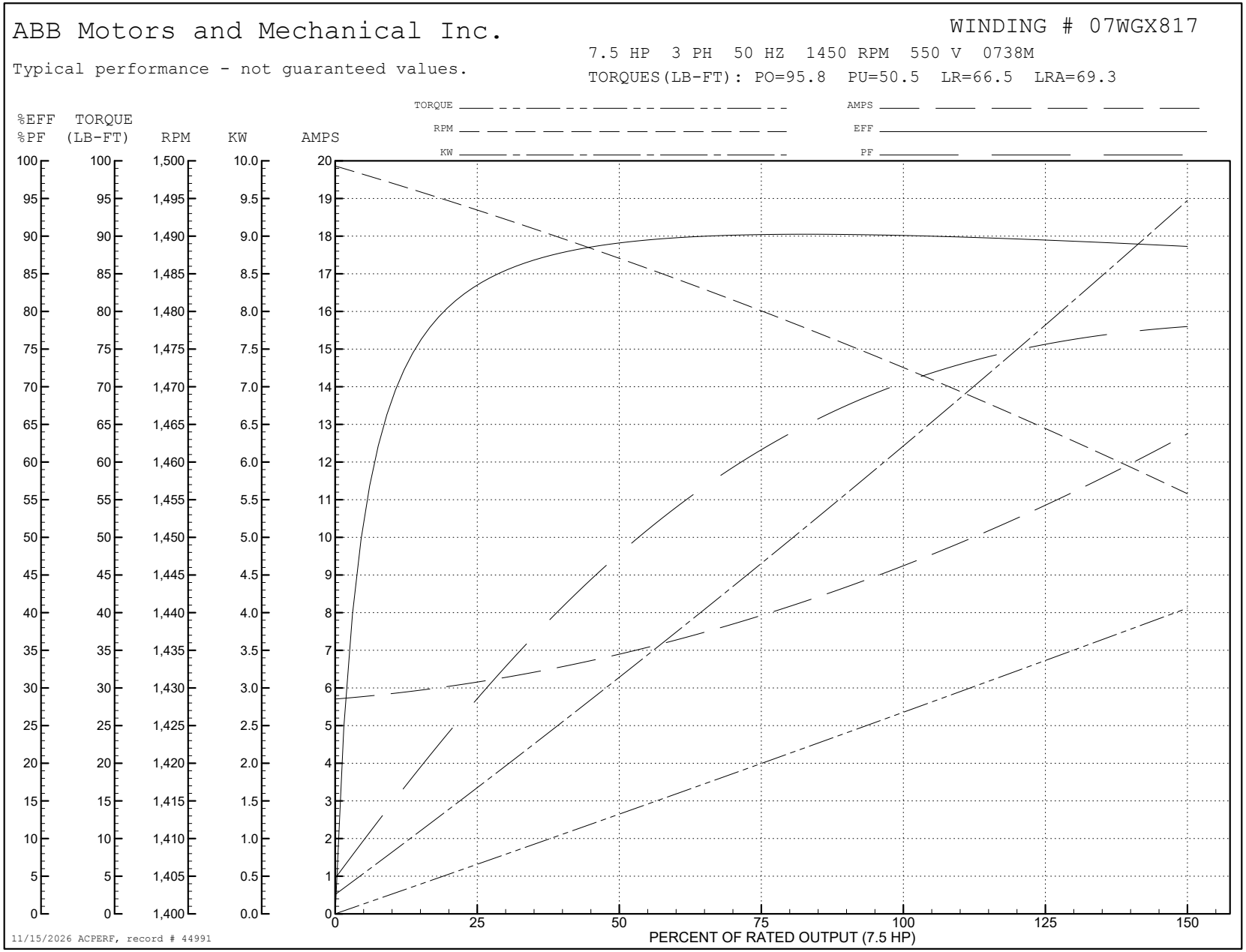
AC Induction Motor Performance Data
Record # 44991
Typical performance - not guaranteed values

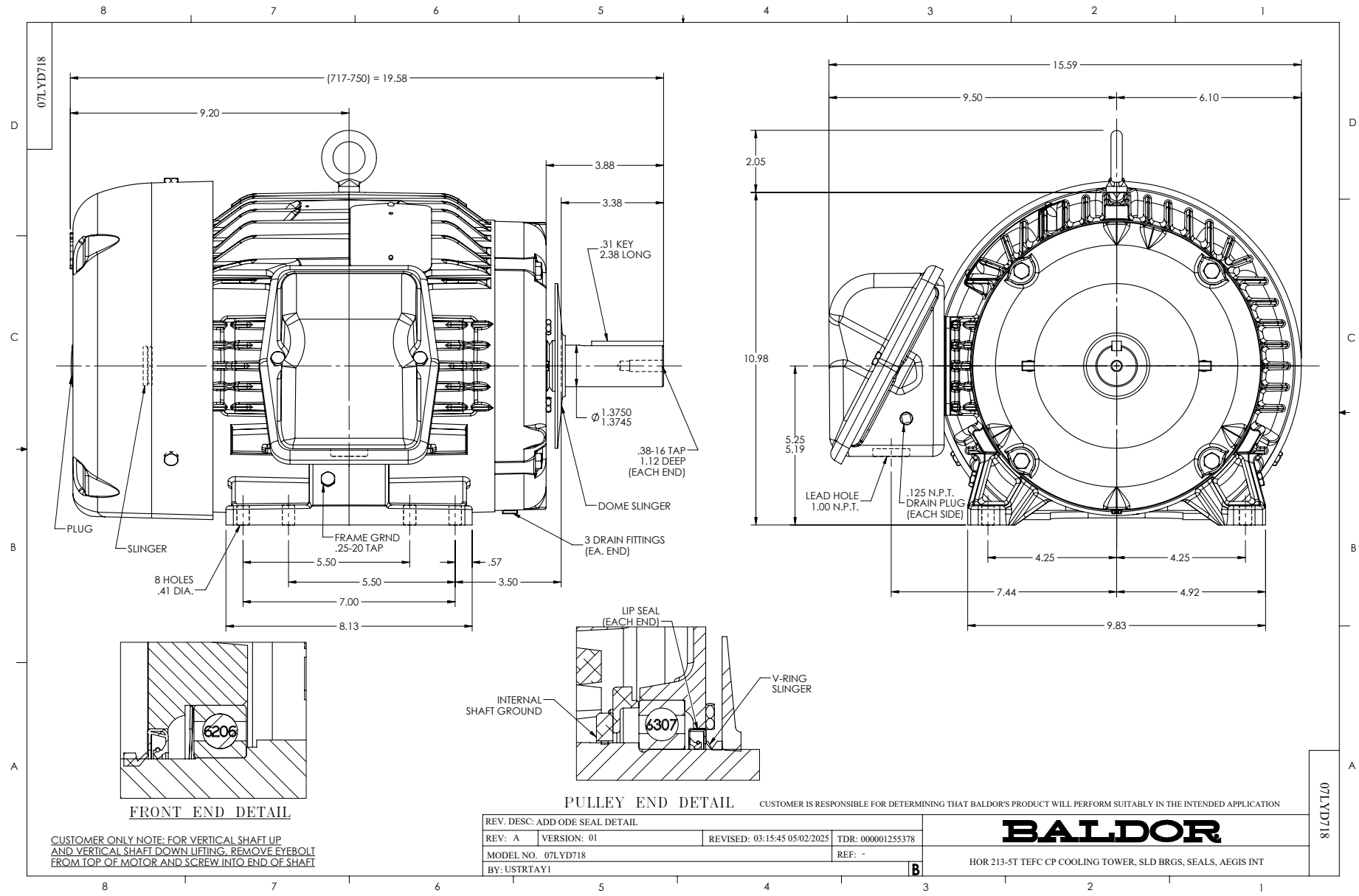
Winding: 07WGX817-R001	**Type:** 0738M	**Enclosure:** TEFC

Nameplate Data				**550 V, 50 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	26.6 LB-FT
Volts			550	**Start Configuration**	direct on line
Full Load Amps			9.1	**Breakdown Torque**	95.8 LB-FT
R.P.M.			1450	**Pull-up Torque**	50.5 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	66.5 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	69.3 A
Service Factor (S.F.)			1.15	**No-load Current**	5.77 A
NEMA Nom. Eff.	89.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	2.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	44.1
				Rotor inertia	0.934 LB-FT2

Load Characteristics 550 V, 50 Hz, 7.5 HP

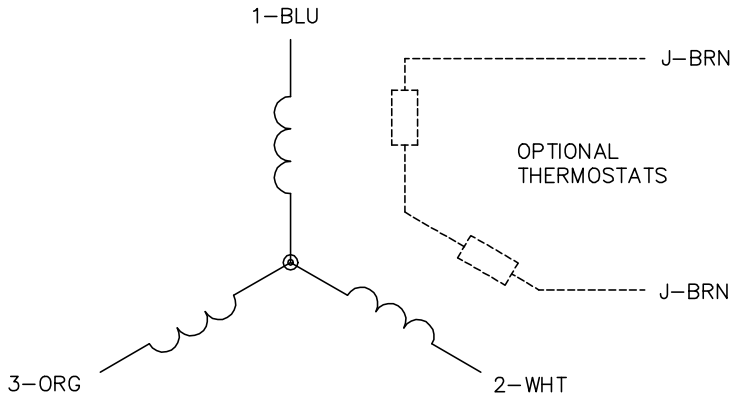
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	48	61	70	75	78	74
Efficiency	83.2	89.2	90.1	90.2	89.6	88.6	89.4
Speed	1494	1487	1480	1473	1464	1456	1466
Line amperes	6.09	6.83	7.9	9.29	10.9	12.7	10.1

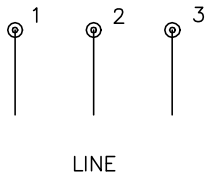

ABB Motors and Mechanical Inc.
WINDING # 07WGX817
7.5 HP 3 PH 50 HZ 1450 RPM 550 V 0738M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=95.8 PU=50.5 LR=66.5 LRA=69.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/15/2026 ACPERF, record # 44991


07LYD718
(717-750) = 19.58
9.20
3.88
3.38
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
.38-16 TAP
1.12 DEEP
(EACH END)
DOME SLINGER
3 DRAIN FITTINGS
(EA. END)
PLUG
SLINGER
FRAME GRND
.25-20 TAP
8 HOLES
.41 DIA.
5.50
.57
5.50
3.50
7.00
8.13
15.59
9.50
6.10
2.05
10.98
5.25
5.19
LEAD HOLE
1.00 N.P.T.
.125 N.P.T.
DRAIN PLUG
(EACH SIDE)
4.25
4.25
7.44
4.92
9.83
LIP SEAL
(EACH END)
V-RING
SLINGER
INTERNAL
SHAFT GROUND
6206
6307
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP
AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT
FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD ODE SEAL DETAIL
REV: A
VERSION: 01
REVISED: 03:15:45 05/02/2025
TDR: 000001255378
MODEL NO. 07LYD718
REF: -
BY: USTRTAY1
B
BALDOR
HOR 213-5T TEFC CP COOLING TOWER, SLD BRGS, SEALS, AEGIS INT
07LYD718

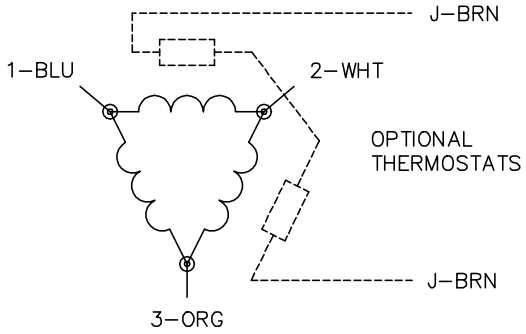
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1