ABB BALDOR RELIANCE

Customer information packet

CL3710T

7.5HP, 1745RPM, 1PH, 60HZ, 215TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
	CURUS
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	29.000 A @ 230.0 V
	31.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGT876
Layout	37LYM362
Eff. date	05-01-2024
CD Diagram	CD0086
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	08-06-2019

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.75 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1745 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

NP1256L									
CAT.NO.	CL3710T								
SPEC.	37-0000-0099								
HP	7.5								
VOLTS	208-230								
AMP	31-29								
RPM	1745								
FRAME	215TC	**HZ**	60			**PH**	1		
SER.F.	1.00	**CODE**	G	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	97						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 37142
Typical performance - not guaranteed values

Winding: 37WGT876-R001	**Type:** 3734LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.4 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			29	**Breakdown Torque**	62.7 LB-FT
R.P.M.			1745	**Pull-up Torque**	41.1 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	64 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	186 A
Service Factor (S.F.)			1	**No-load Current**	5.37 A
NEMA Nom. Eff.	86.5	**Power Factor**	97	**Line-line Res. @ 25ºC**	0.263 Ω A Ph 0.705 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	90°C

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	91	97	98	97	97	96
Efficiency	70.9	83.8	86.8	86.8	85	81.3
Speed	1787	1775	1761	1745	1726	1701
Line amperes	9.1	14.9	21.4	28.6	36.8	46.8

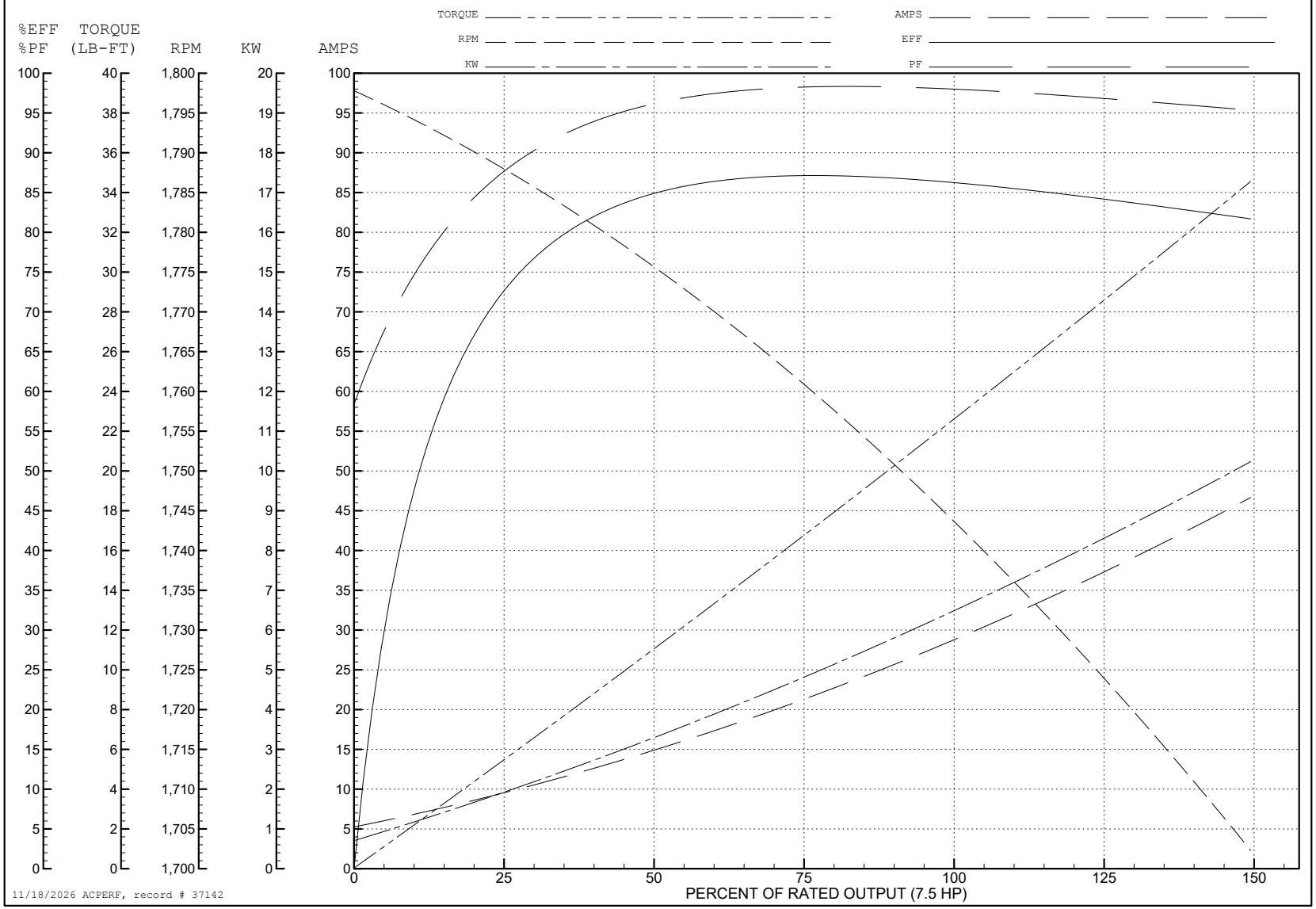
ABB Motors and Mechanical Inc.

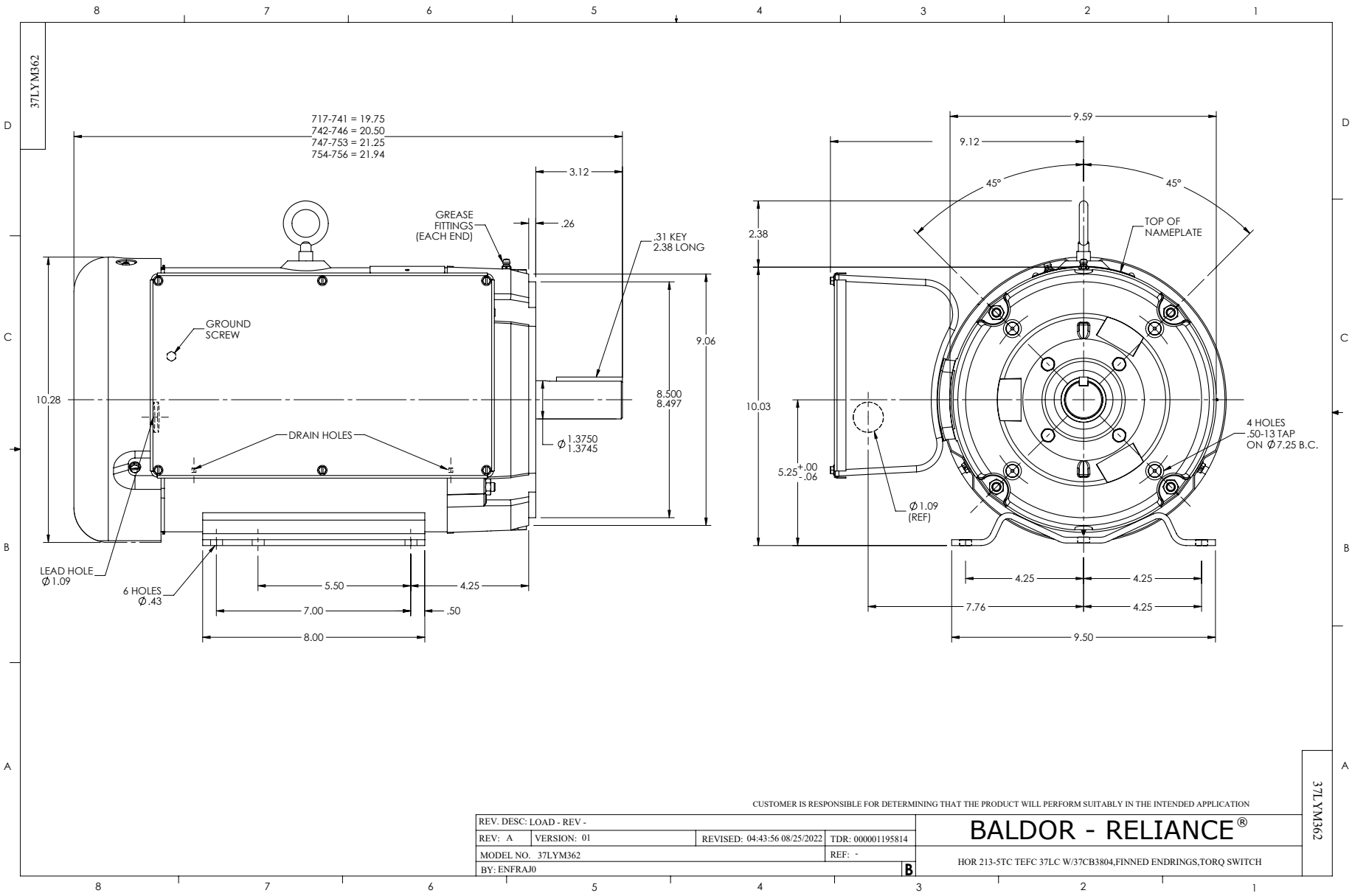
WINDING # 37WGT876

7.5 HP 1 PH 60 HZ 1745 RPM 230 V 3734LC

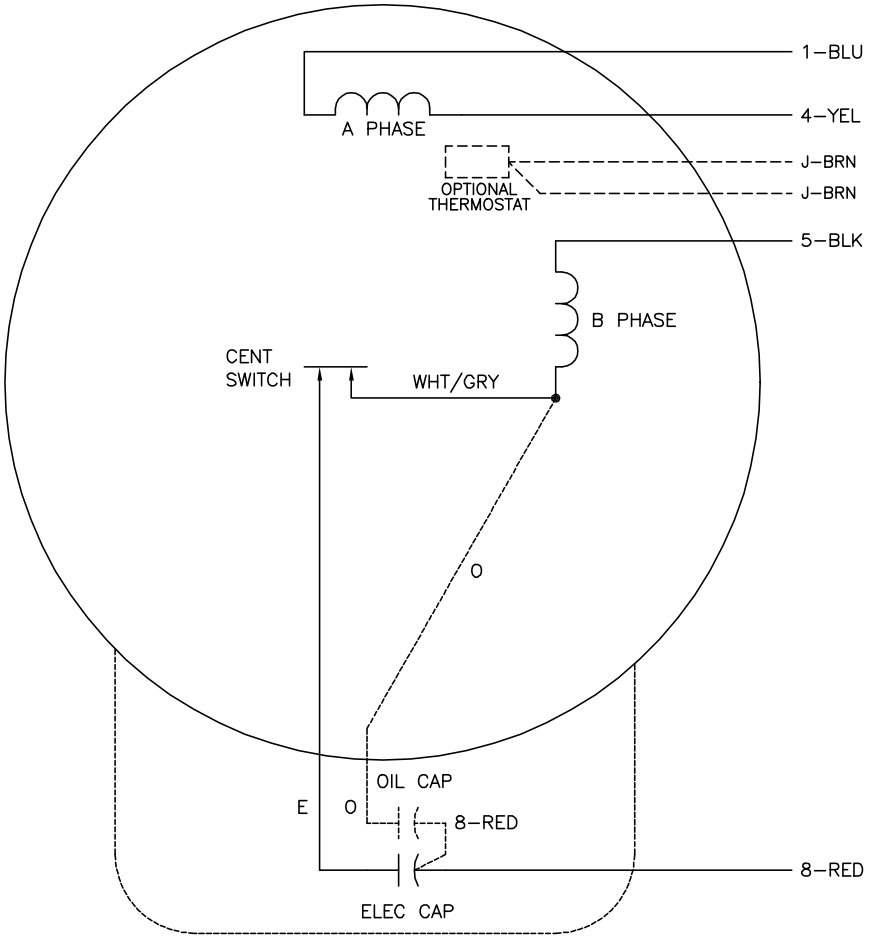
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=62.7 PU=41.1 LR=64 LRA=186




37LYM362
717-741 = 19.75
742-746 = 20.50
747-753 = 21.25
754-756 = 21.94
3.12
.26
GREASE FITTINGS (EACH END)
.31 KEY 2.38 LONG
GROUND SCREW
9.06
10.28
8.500
8.497
DRAIN HOLES
Ø 1.3750
1.3745
LEAD HOLE Ø1.09
6 HOLES Ø.43
5.50
4.25
7.00
.50
8.00
9.59
9.12
45°
45°
TOP OF NAMEPLATE
2.38
10.03
5.25 +.00 -.06
4 HOLES .50-13 TAP ON Ø7.25 B.C.
Ø 1.09 (REF)
4.25
4.25
7.76
4.25
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD - REV -
REV: A
VERSION: 01
REVISED: 04:43:56 08/25/2022
TDR: 000001195814
MODEL NO. 37LYM362
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 213-5TC TEFC 37LC W/37CB3804,FINNED ENDRINGS,TORQ SWITCH
37LYM362

CD0086



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
5. CAPACITORS MAY BE SEPERATELY MOUNTED.
6. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED CK TO PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JD	REVISED: 16:01:12 01/07/2002	TDR: 259409
9800CD		FILE: AAA00026904	REF: CD0086
		MTL: –	TYPE L OR LC, SV, REV, 4 LEADS, CAPS MAY BE SEP MTD

CD0086