ABB BALDOR RELIANCE

Customer information packet

EM3710T-58

7.5HP, 1460RPM, 3PH, 50HZ, 213T, 3736M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	IE3
	UKCA
	WEEE
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	10.800 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGS060
Layout	37LYA001
Eff. date	11-05-2025
CD Diagram	CD0382
Poles	04
Leads	6#14
Proprietary	False
Created date	12-22-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	10.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3736M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.01 IN
Power Factor	82
Product Family	General Purpose
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2716L									
CAT NO	EM3710T-58								
SPEC.	37A001S060G1								
HP	7.5/5.5KW				**PH**	3			
VOLTS	400								
AMP	10.8								
R.P.M. (1/MIN)	1460								
FRAME	213T		**HZ**	50			**I.P.**	44	
SER.F.	1.15	**CODE**	H	**DES**	B		**CL**	F	
NOM.EFF.	89.6			**% (100%)**					
PF	82								
RATING	40C AMB-S1 CONT				**CC**				
DE BRG	6307		**ODE**	6206					
ENCL	TEFC	**SN**							
BLANK	IE3-90.7(75%)90.6(50%)								
	IC411 58KG								

AC Induction Motor Performance Data
Record # 54637
Typical performance - not guaranteed values

Winding: 37WGS060-R011	**Type:** 3736M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	26.9 LB-FT
Volts			400	**Start Configuration**	direct on line
Full Load Amps			10.8	**Breakdown Torque**	72.1 LB-FT
R.P.M.			1460	**Pull-up Torque**	36.6 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	44.4 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	70.4 A
Service Factor (S.F.)			1.15	**No-load Current**	4.62 A
NEMA Nom. Eff.	89.6	**Power Factor**	82	**Line-line Res. @ 25ºC**	1.49 Ω
Rating - Duty			50C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps				**Temp. Rise @ S.F. Load**	93°C
				Locked-rotor Power Factor	43
				Rotor inertia	0.885 LB-FT2

Load Characteristics 400 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	77	82	84	84	83
Efficiency	87	90.5	90.7	89.6	88.1	86	88.7
Speed	1492	1483	1474	1463	1451	1437	1456
Line amperes	5.17	6.66	8.66	11	13.6	16.7	12.6

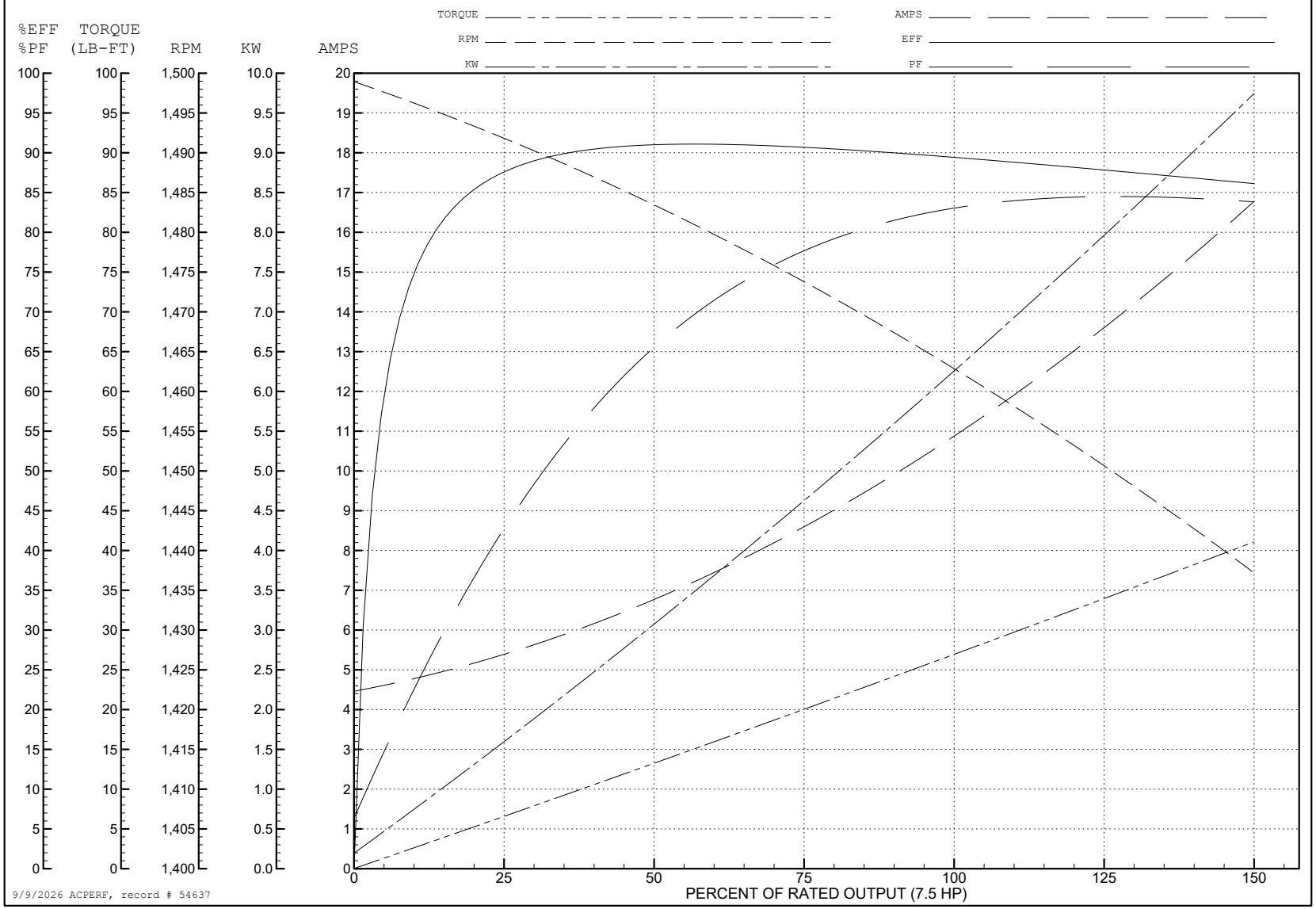
ABB Motors and Mechanical Inc.

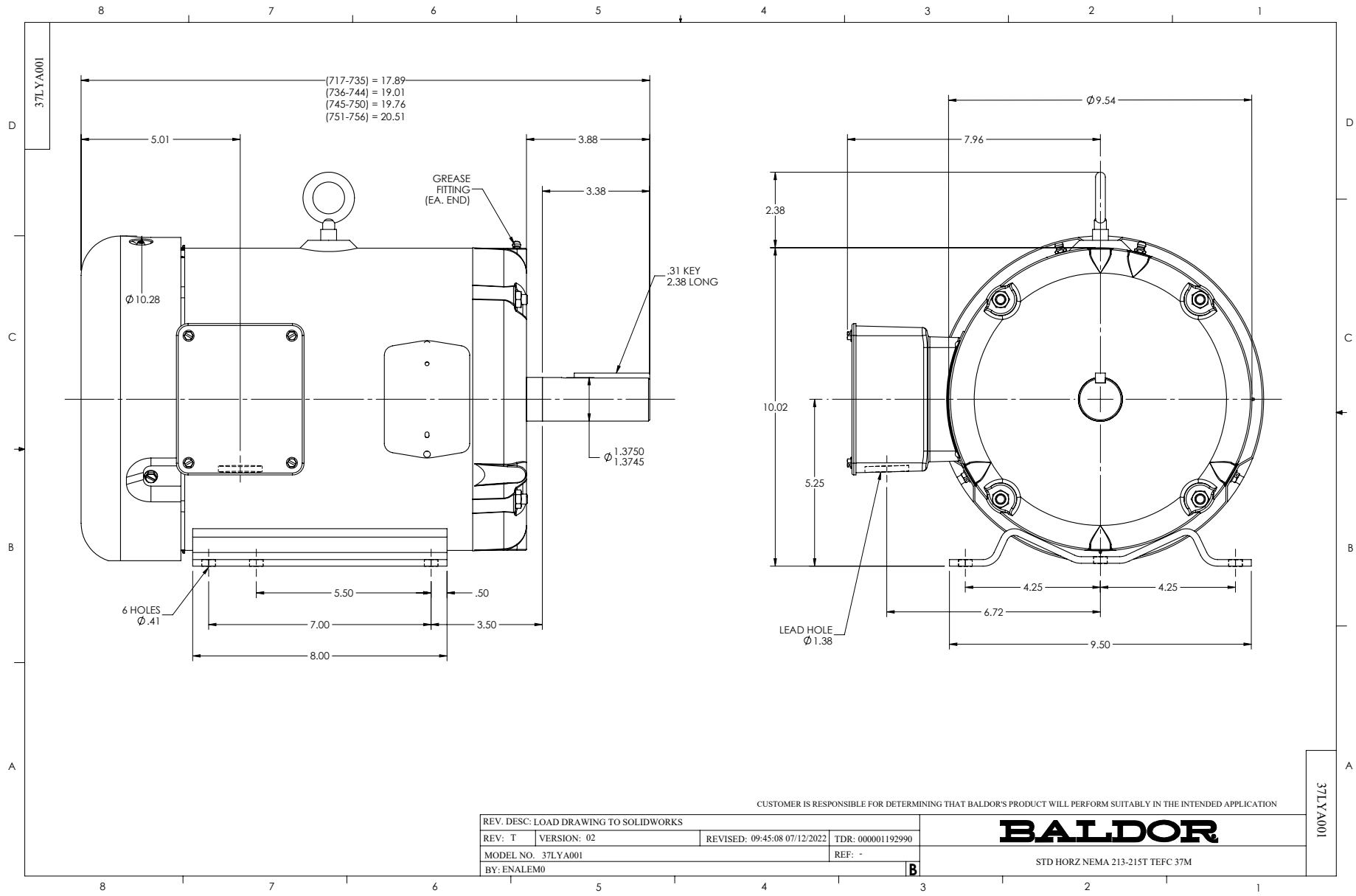
WINDING # 37WGS060

7.5 HP 3 PH 50 HZ 1460 RPM 400 V 3736M

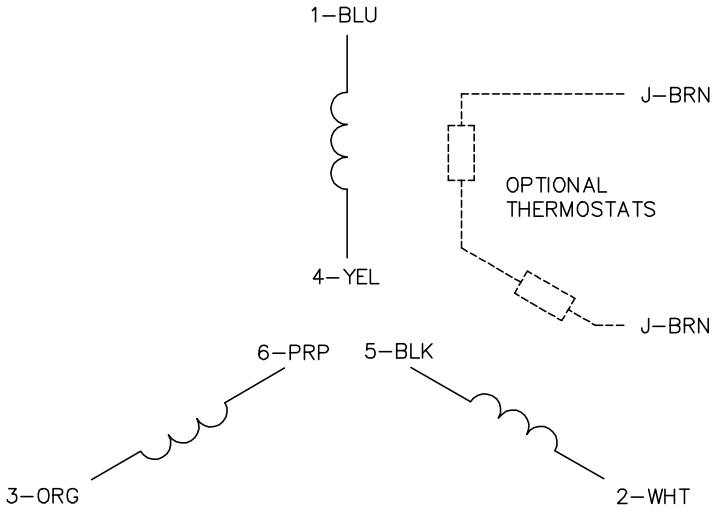
TORQUES(LB-FT): PO=72.1 PU=36.6 LR=44.4 LRA=70.4

Typical performance - not guaranteed values.

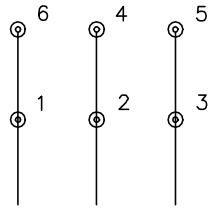



37LYA001
(717-735) = 17.89
(736-744) = 19.01
(745-750) = 19.76
(751-756) = 20.51
5.01
3.88
3.38
GREASE FITTING (EA. END)
.31 KEY 2.38 LONG
Ø10.28
Ø1.3750 1.3745
6 HOLES Ø.41
5.50
.50
7.00
3.50
8.00
Ø9.54
7.96
2.38
10.02
5.25
4.25
4.25
6.72
LEAD HOLE Ø1.38
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: T
VERSION: 02
REVISED: 09:45:08 07/12/2022
TDR: 000001192990
MODEL NO. 37LYA001
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ NEMA 213-215T TEFC 37M
37LYA001

CD0382

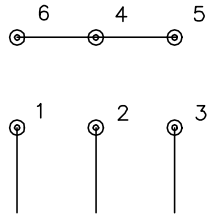


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



LINE

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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1