ABB BALDOR RELIANCE

Customer information packet

M3710T-58

7.5HP, 1465RPM, 3PH, 50HZ, 213T, 3738M, 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	CSA
	CE
	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	11.200 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.2 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	37A001
Base	
Status	NLA/A
Elec. spec.	37WGR161
Layout	37LYA001
Eff. date	10-28-2016
CD Diagram	CD0382
Poles	04
Leads	6#14
Proprietary	False
Created date	09-21-2011

Inverter Code	Not Inverter
KVA Code	J
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	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.01 IN
Power Factor	80
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	1465 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

NP2717L								
CAT NO	M3710T-58							
SPEC.	37A001R161H1							
HP	7.5				**PH**	3		
VOLTS	400							
AMP	11.2							
FRAME	213T	**HZ**	50			**I.P.**	54	
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F	
NEMA-NOM-EFF	87.7						**% (100%)**	
PF	80							
RATING	40C AMB-CONT			**CC**				
DE BRG	6307	**ODE**	6206					
ENCL	TEFC	**SN**						
BLANK	IE2-88.2(75%)86.5(50%)							

AC Induction Motor Performance Data
Record # 35202
Typical performance - not guaranteed values

Winding: 37WGR161-R001	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	26.5 LB-FT
Volts			400	**Start Configuration**	direct on line
Full Load Amps			11.2	**Breakdown Torque**	86.7 LB-FT
R.P.M.			1460	**Pull-up Torque**	47.5 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	53 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	80 A
Service Factor (S.F.)			1.15	**No-load Current**	5.75 A
NEMA Nom. Eff.	87.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	86°C
S.F. Amps				**Temp. Rise @ S.F. Load**	102°C

Load Characteristics 400 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	75	80	84	86	82
Efficiency	80.8	86.5	88.2	88.3	87.7	85.3	88
Speed	1492	1484	1475	1465	1454	1439	1458
Line amperes	6.14	7.4	9.1	11.2	13.6	16.4	12.6

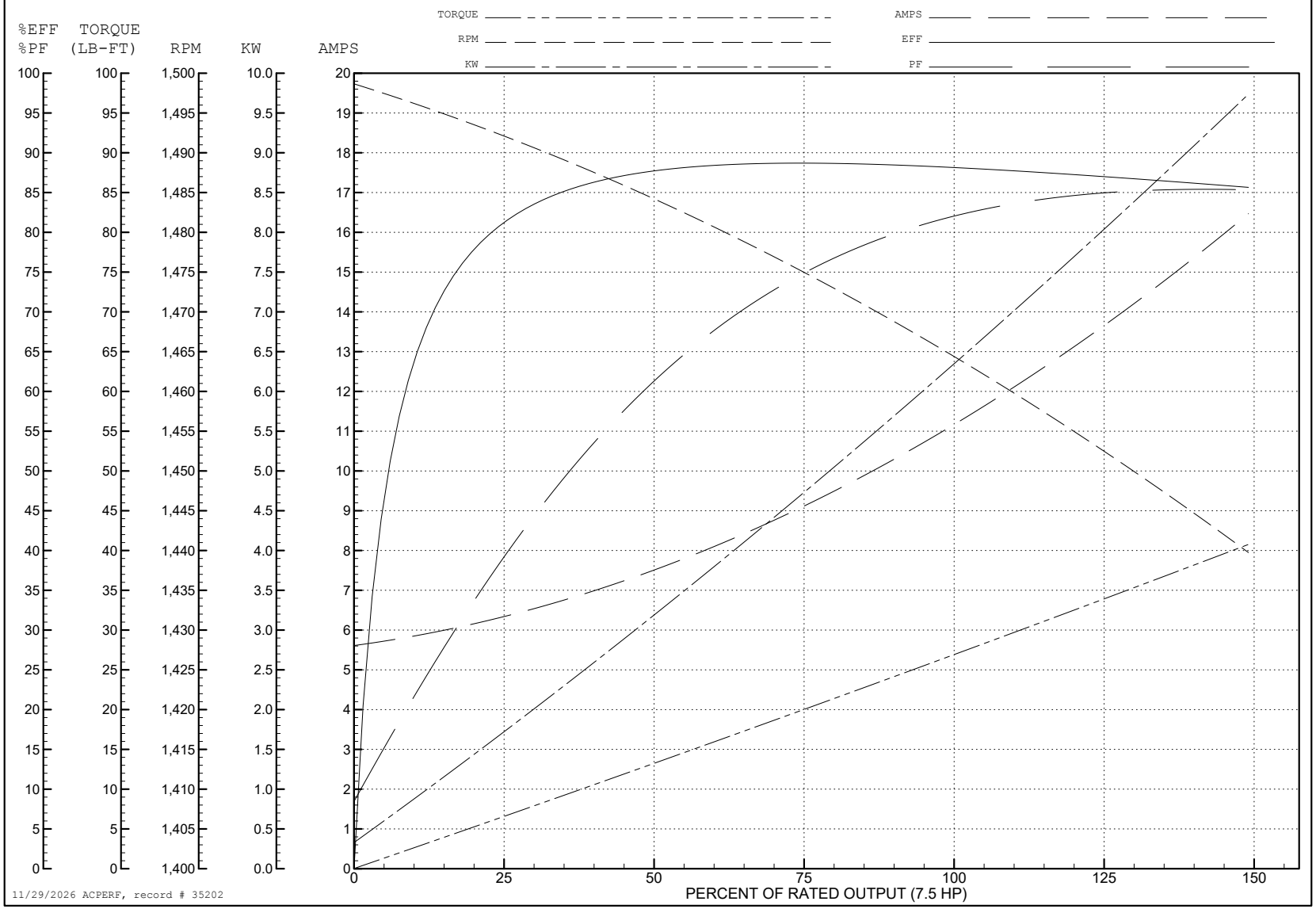
ABB Motors and Mechanical Inc.

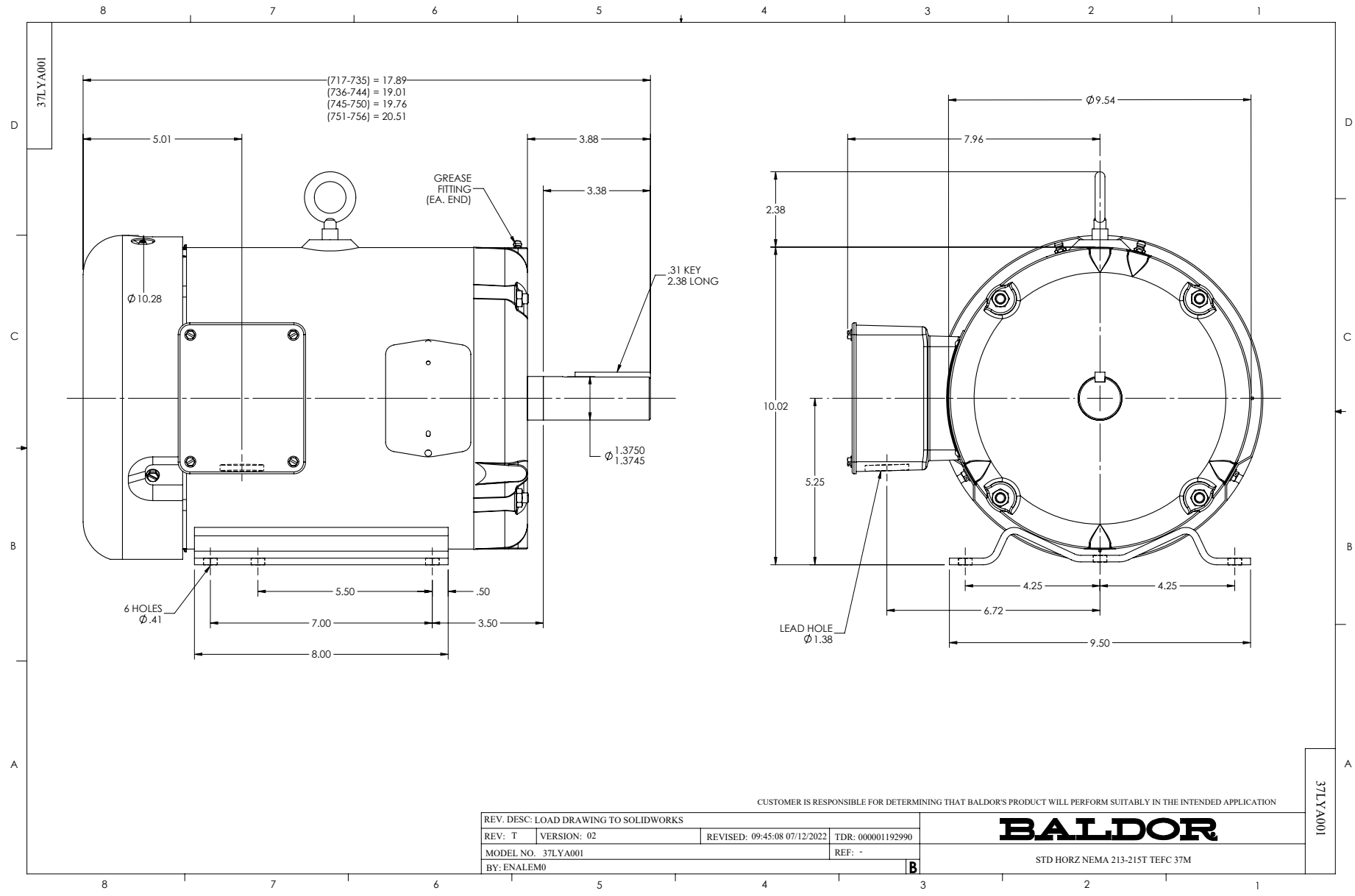
WINDING # 37WGR161

7.5 HP 3 PH 50 HZ 1460 RPM 400 V 3738M

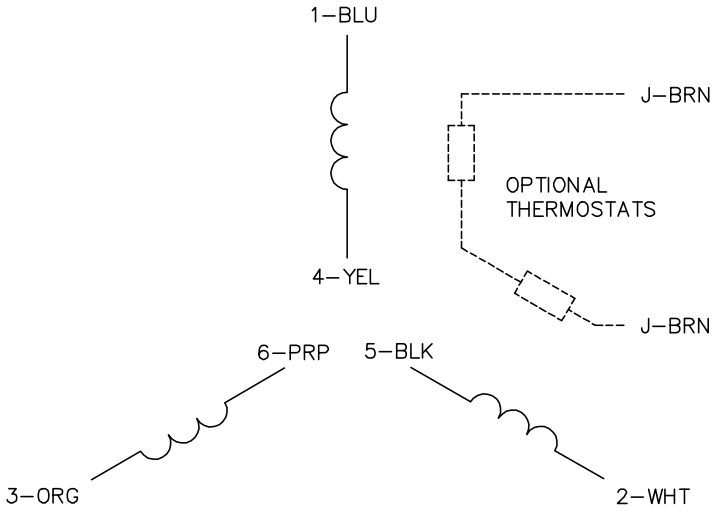
TORQUES(LB-FT): PO=86.7 PU=47.5 LR=53 LRA=80

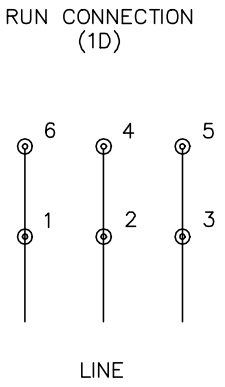
Typical performance - not guaranteed values.

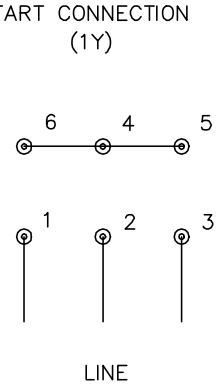



37LYA001
(717-735) = 17.89
(736-744) = 19.01
(745-750) = 19.76
(751-756) = 20.51
5.01
3.88
3.38
GREASE FITTING (EA. END)
.31 KEY 2.38 LONG
Ø10.28
Ø1.3750 1.3745
6 HOLES Ø.41
5.50
.50
7.00
3.50
8.00
Ø9.54
7.96
2.38
10.02
5.25
4.25
4.25
6.72
LEAD HOLE Ø1.38
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING 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







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

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