



Customer information packet

EM3710T-8

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Steel
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	200.0 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	21.400 A @ 200.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	21.4 a

Part detail

Revision	J
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGR909
Layout	37LYA001
Eff. date	11-05-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	12-09-2015

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 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	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

NP3441L

CAT.NO.	EM3710T-8									
SPEC.	37A001R909G1									
HP	7.5									
VOLTS	200									
AMP	21.4									
RPM	1770									
FRAME	213T		HZ	60		PH	3			
SER.F.	1.15	CODE	J	DES	A	CL	F			
NEMA-NOM-EFF	91.7	PF	80							
RATING	40C AMB-CONT									
CC	010A									
DE	6307		ODE	6206						
ENCL	TEFC	SN								

VPWM INVERTER READY

CT6-60H(10:1)VT3-60H(20:1)

AC Induction Motor Performance Data

Record # 54314

Typical performance - not guaranteed values

Winding: 37WGR909-R001				Type: 3738M		Enclosure: TEFC		
Nameplate Data				200 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5		Full Load Torque		22.2 LB-FT		
Volts		200		Start Configuration		direct on line		
Full Load Amps		21.4		Breakdown Torque		71.5 LB-FT		
R.P.M.		1770		Pull-up Torque		32.9 LB-FT		
Hz		60 Phase		3		Locked-rotor Torque		43.4 LB-FT
NEMA Design Code		A KVA Code		J		Starting Current		164 A
Service Factor (S.F.)		1.15		No-load Current		10 A		
NEMA Nom. Eff.		91.7 Power Factor		80		Line-line Res. @ 25°C		0.263 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C		
S.F. Amps				Temp. Rise @ S.F. Load		77°C		
				Locked-rotor Power Factor		37.2		
				Rotor inertia		0.934 LB-FT2		

Load Characteristics 200 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	75	80	83	84	82
Efficiency	87.2	91.6	92.2	91.9	91.1	89.9	91.4
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	11.2	13.9	17.5	21.9	26.7	32	24.8

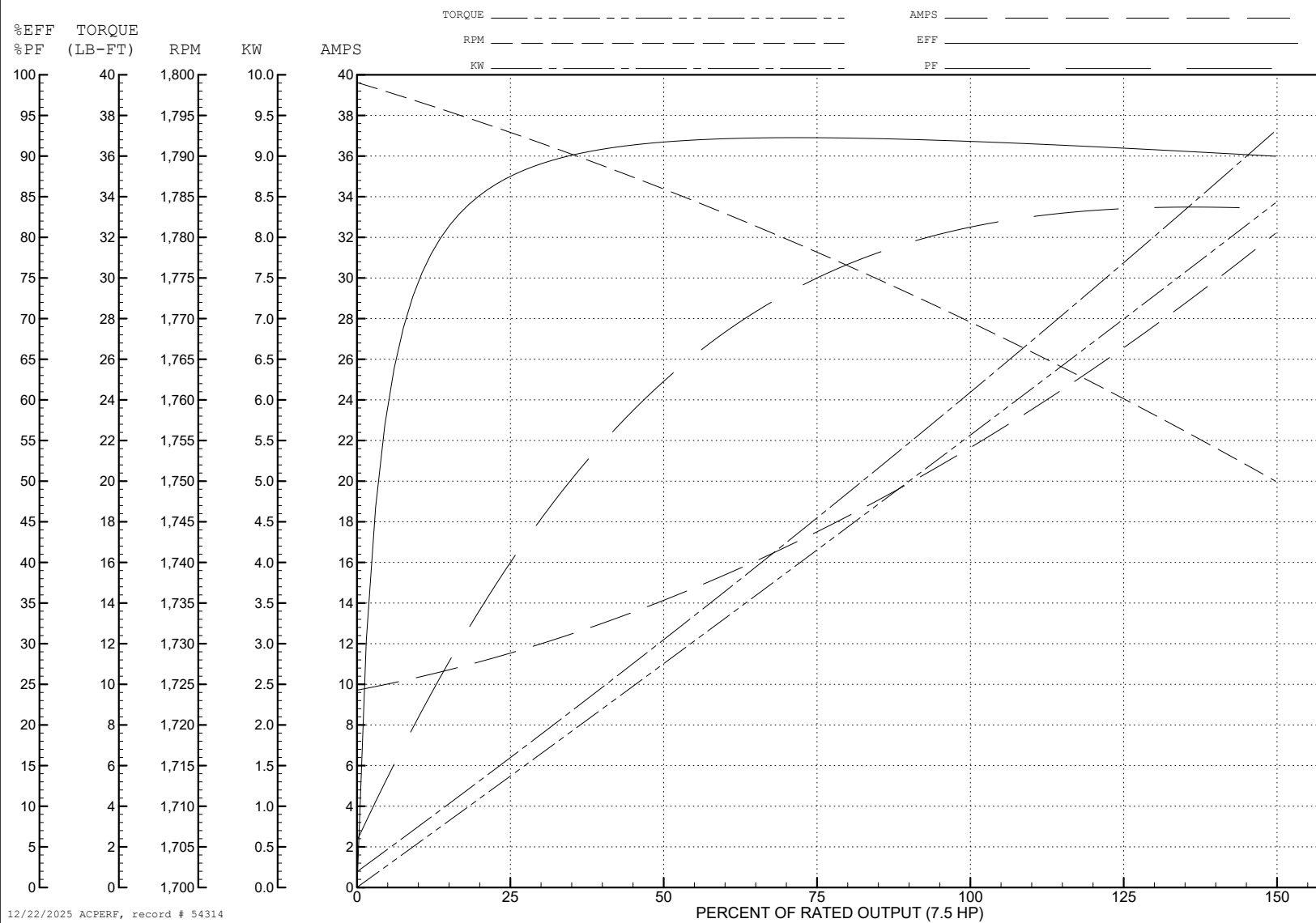
ABB Motors and Mechanical Inc.

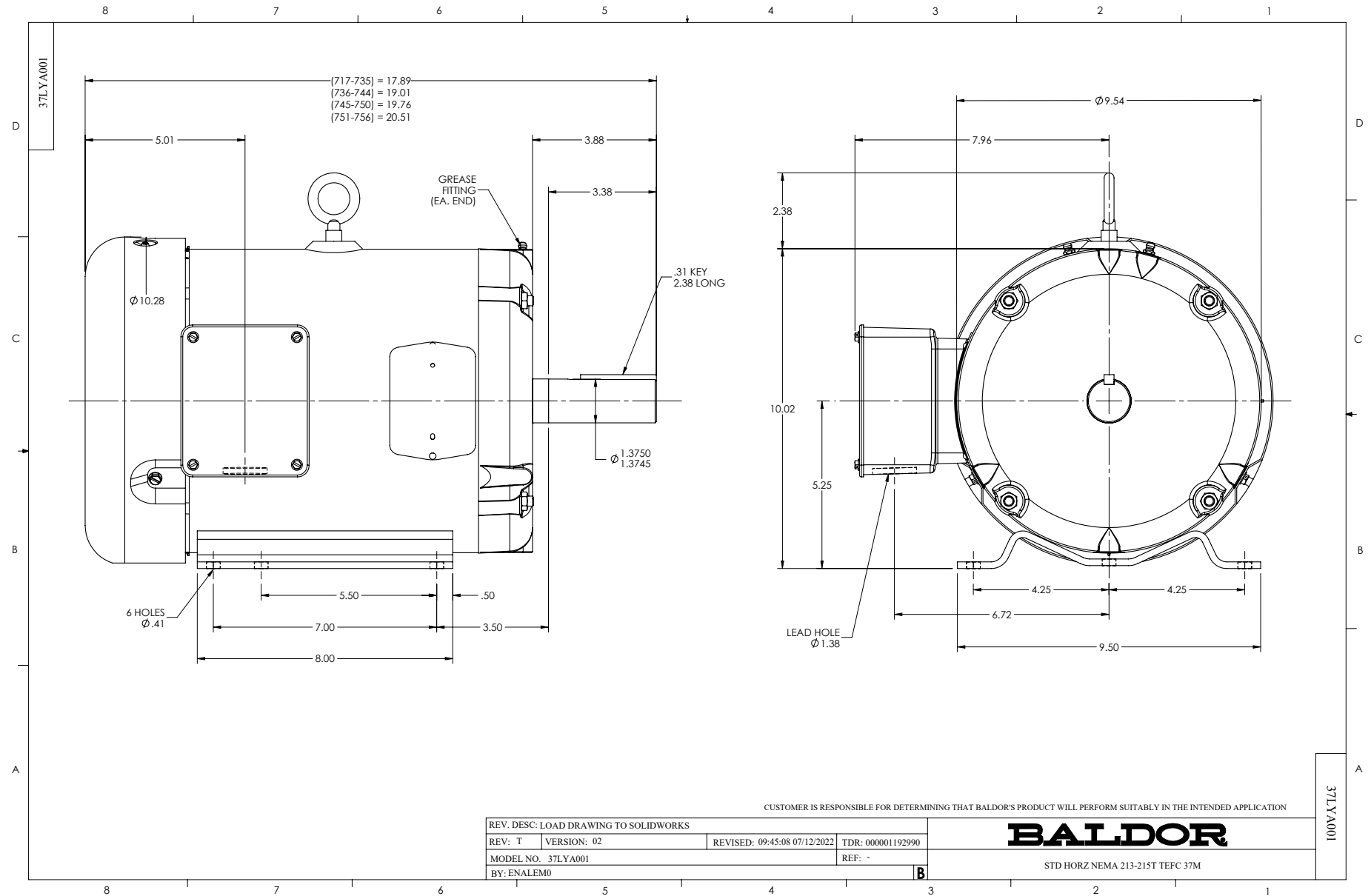
WINDING # 37WGR909

Typical performance - not guaranteed values.

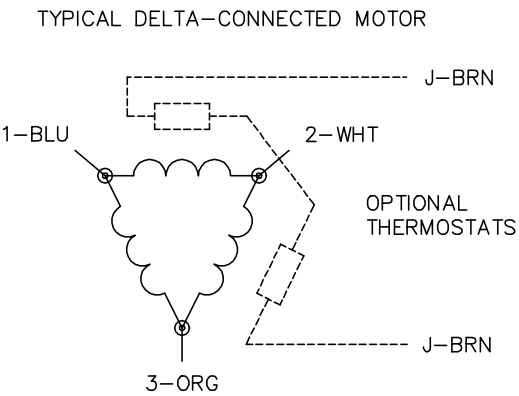
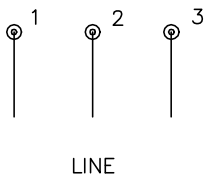
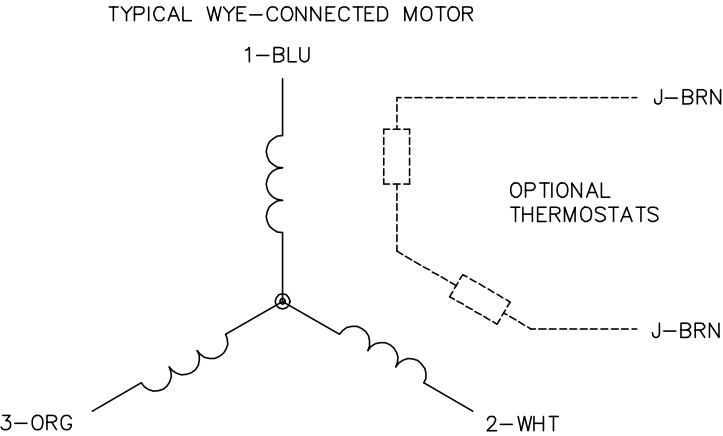
7.5 HP 3 PH 60 HZ 1770 RPM 200 V 3738M

TORQUES (LB-FT): PO=71.5 PU=32.9 LR=43.4 LRA=164





CD0006



- 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: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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

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