ABB BALDOR RELIANCE

Customer information packet

M3705T

3HP, 860RPM, 3PH, 60HZ, 215T, 3743M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	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	5.600 A @ 460.0 V
	12.100 A @ 208.0 V
	11.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	T
Type	AC
Mech. spec.	37A001
Base	
Status	NLA/A
Elec. spec.	37WGT900
Layout	37LYA001
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	08
Leads	9#14
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3743M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	19.01 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	865 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.	M3705T							
SPEC.	37A001T900							
HP	3							
VOLTS	208-230/460							
AMP	12.1-11.2/5.6							
RPM	865							
FRAME	215T	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	84	**PF**	61					
RATING	40C AMB-CONT							
CC	010A							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 25095
Typical performance - not guaranteed values

Winding: 37WGT900-R001	**Type:** 3742M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	18.29 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			12.1-11.2/5.6	**Breakdown Torque**	57.68 LB-FT
R.P.M.			865	**Pull-up Torque**	34.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	44.15 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.69 A
Service Factor (S.F.)			1.15	**No-load Current**	3.74 A
NEMA Nom. Eff.	84	**Power Factor**	61	**Line-line Res. @ 25ºC**	2.98 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	32.5
				Rotor inertia	1.04 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	40	51	60	65	70	65
Efficiency	73.8	81.5	84.5	84.1	83	80.6	83.4
Speed	892	884	876	867	857	844	860
Line amperes	3.97	4.38	4.94	5.64	6.5	7.56	6.07

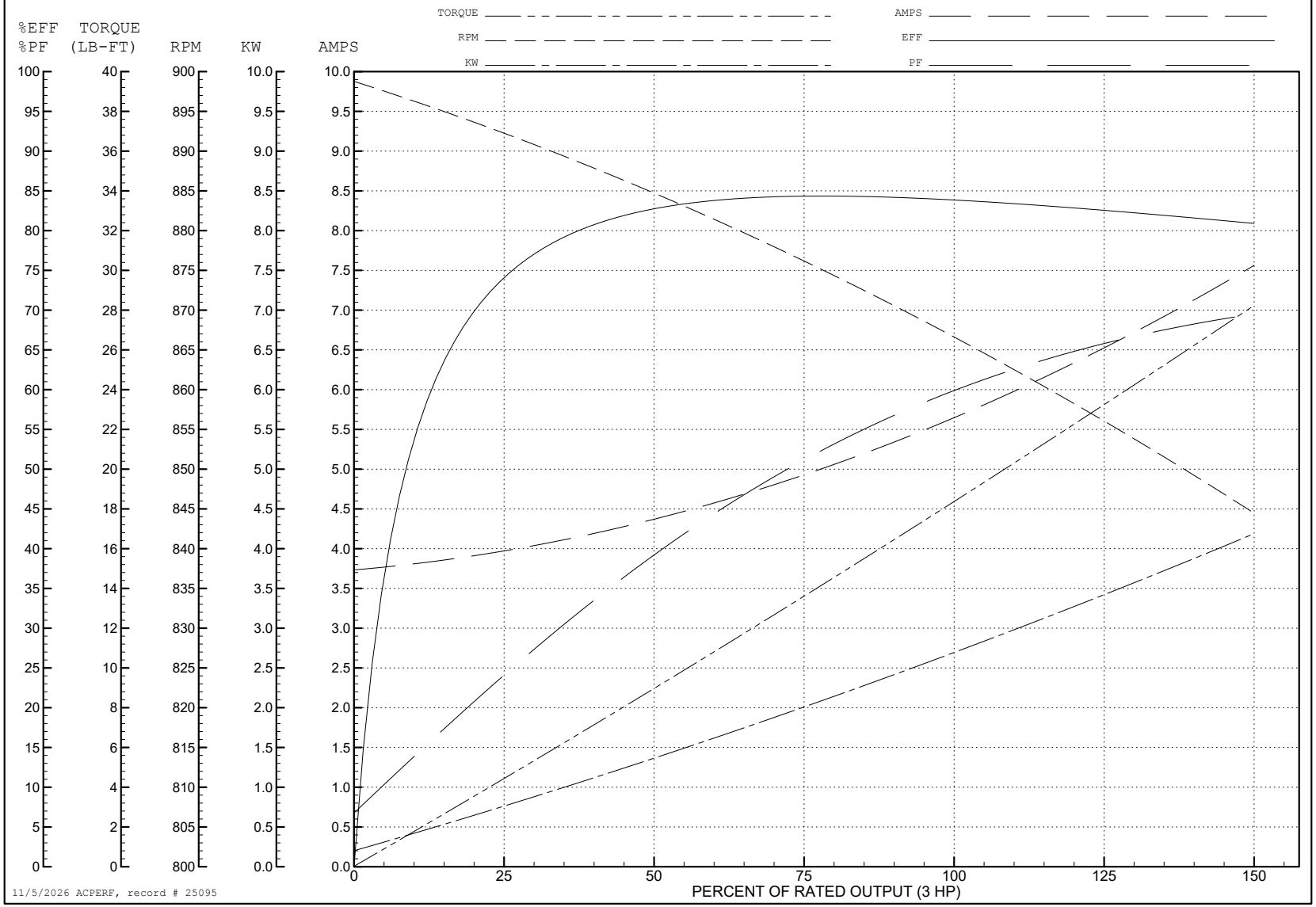
ABB Motors and Mechanical Inc.

WINDING # 37WGT900

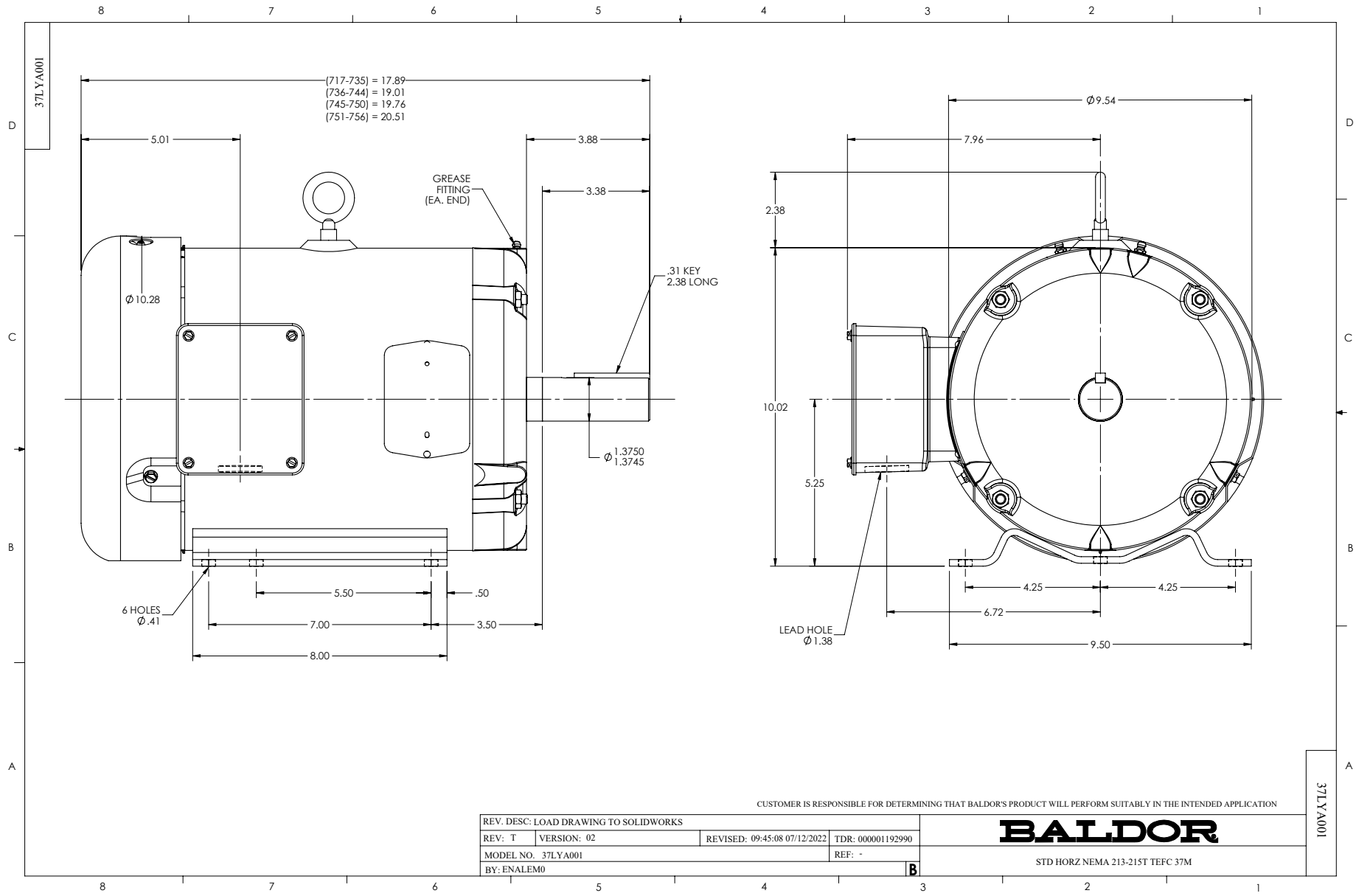
3 HP 3 PH 60 HZ 865 RPM 460 V 3742M

Typical performance - not guaranteed values.

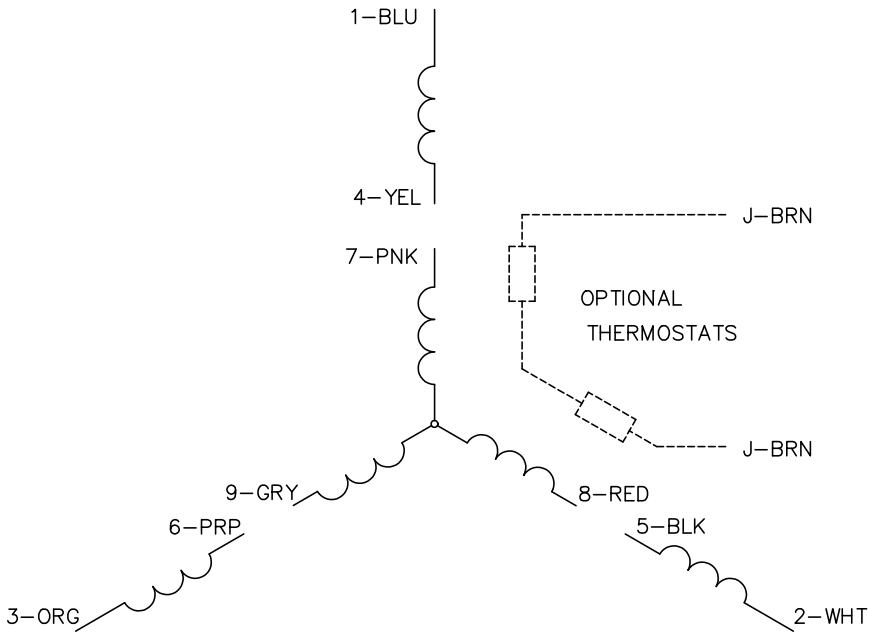
TORQUES(LB-FT): PO=57.68 PU=34.5 LR=44.15 LRA=32.69

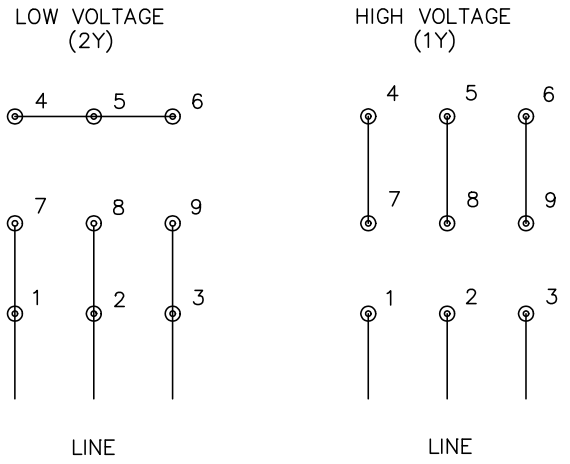


11/5/2026 ACPERF, record # 25095


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

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS