ABB BALDOR RELIANCE

Customer information packet

AOM3705T

3 AIR OVERHP, 865RPM, 3PH, 60HZ, 215T, 3744M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
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	5.200 A @ 460.0 V
	11.300 A @ 208.0 V
	10.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	37F359
Base	
Status	PRD/A
Elec. spec.	37WGT944
Layout	37LYF359
Eff. date	10-09-2025
CD Diagram	CD0005
Poles	08
Leads	9#14 36" LONG Y
Proprietary	False
Created date	07-13-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	17.44 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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.	AOM3705T										
SPEC.	37F359T944G1										
HP	3 AIR OVER										
VOLTS	208-230/460										
AMP	11.3-10.4/5.2										
RPM	865										
FRAME	215T		**HZ**	60			**PH**	3			
SER.F.	1.00	**CODE**	H	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	86.5	**PF**	62								
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEAO	**SN**									
	850 FPM AT 170 CFM										

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

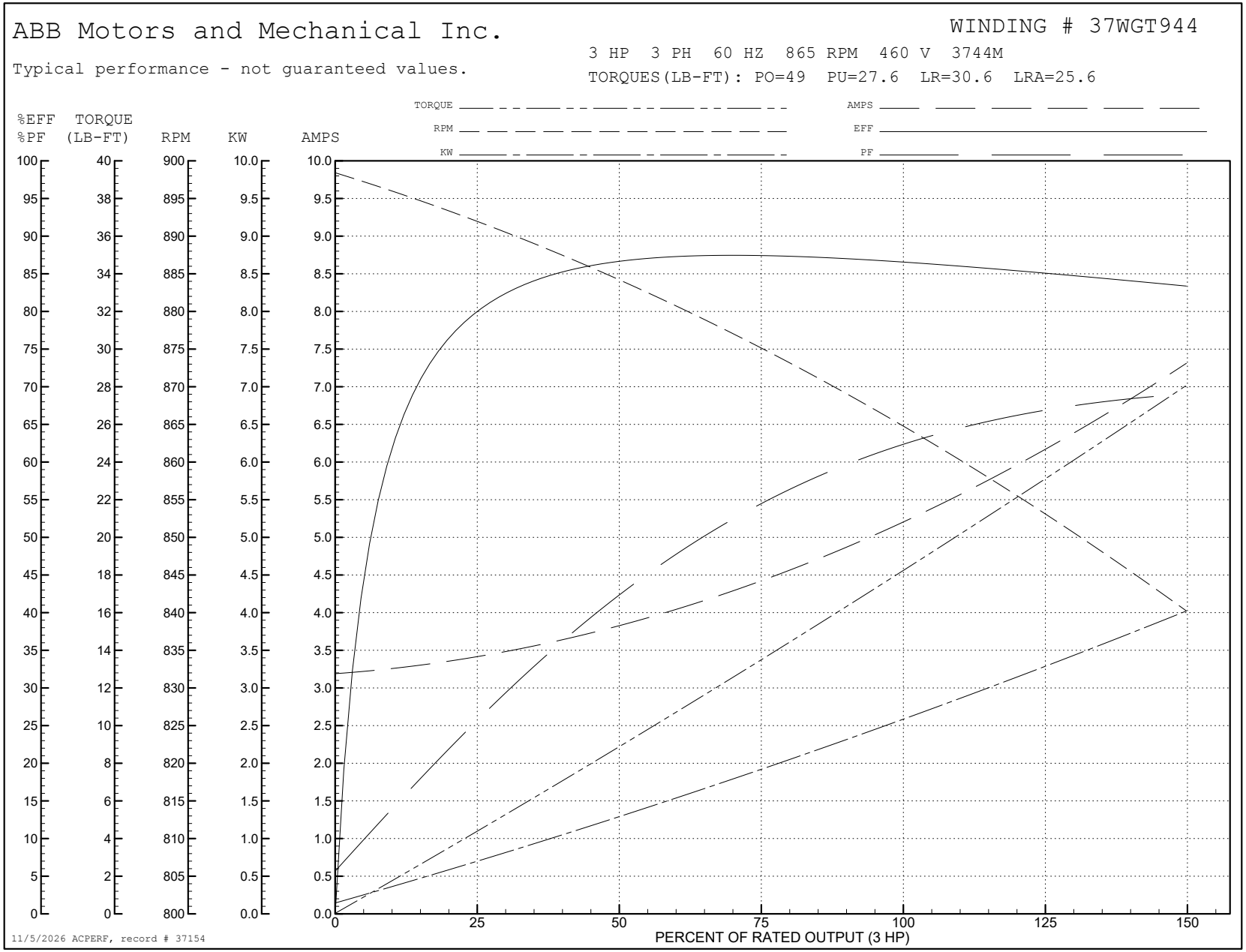
AC Induction Motor Performance Data
Record # 37154
Typical performance - not guaranteed values

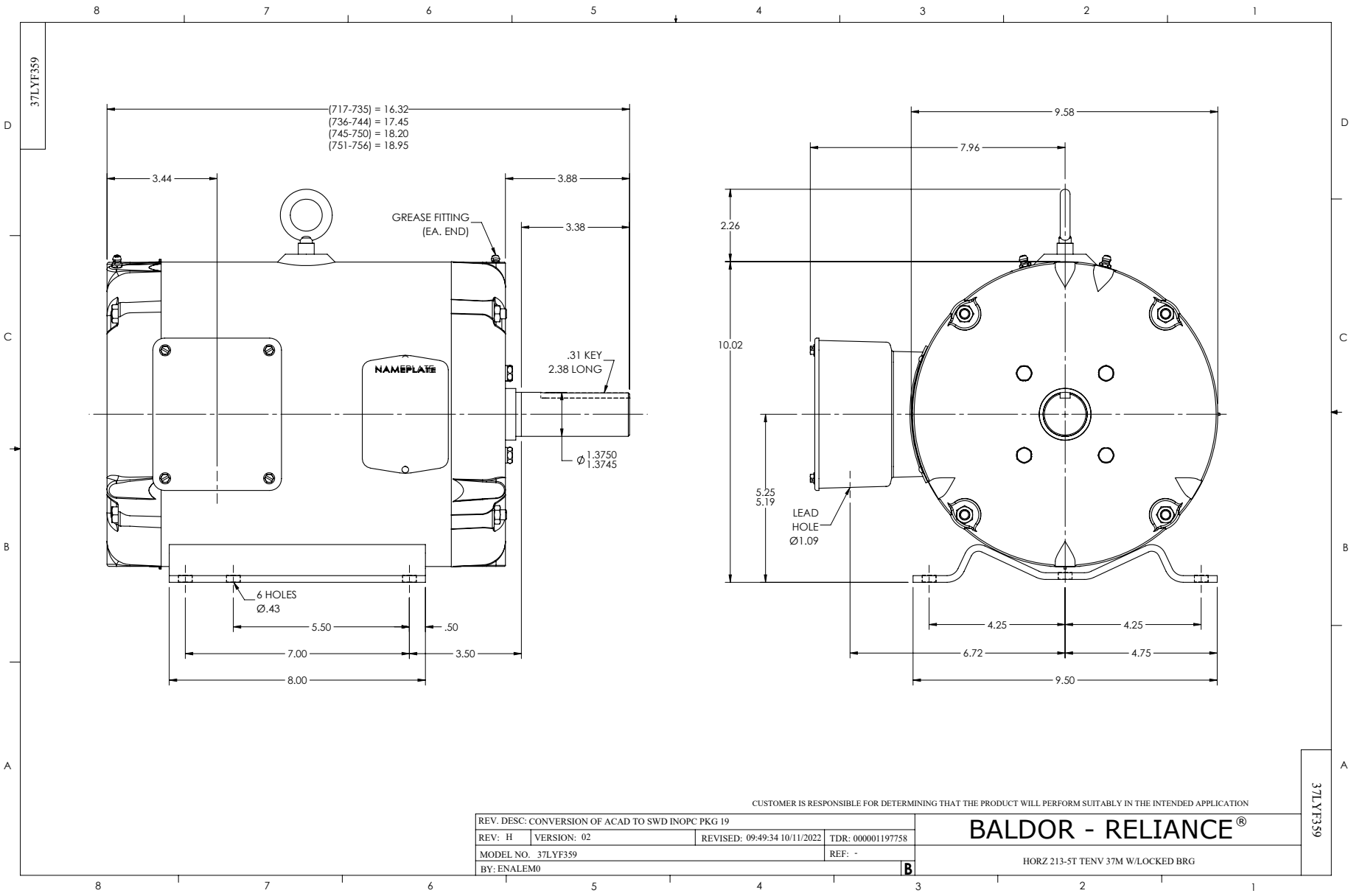
Winding: 37WGT944-R002	**Type:** 3744M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3 AIR OVER	**Full Load Torque**	18.4 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			11.3-10.4/5.2	**Breakdown Torque**	49 LB-FT
R.P.M.			865	**Pull-up Torque**	27.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	25.6 A
Service Factor (S.F.)			1	**No-load Current**	3.21 A
NEMA Nom. Eff.	86.5	**Power Factor**	62	**Line-line Res. @ 25ºC**	3.5 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
				Locked-rotor Power Factor	32
				Rotor inertia	1.09 LB-FT2

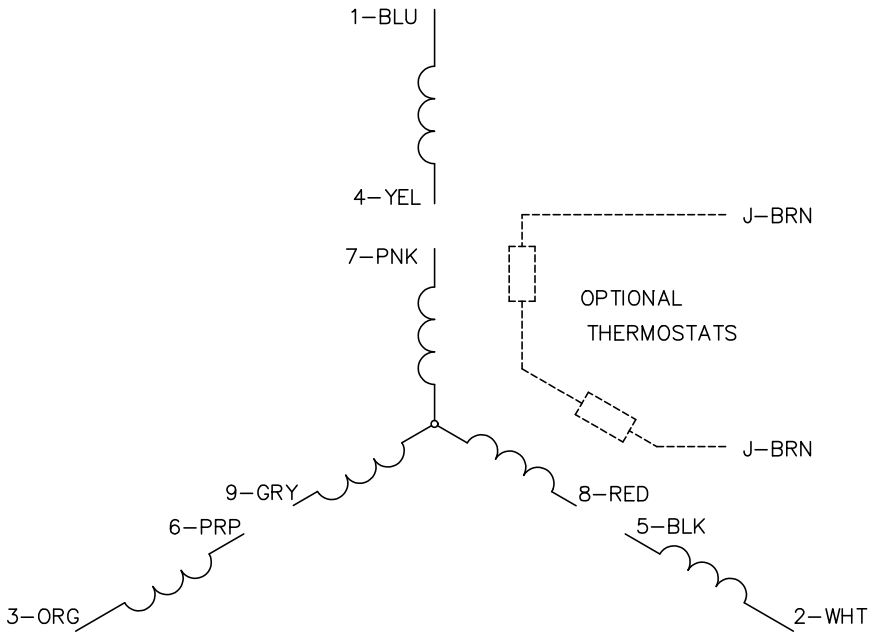
Load Characteristics 460 V, 60 Hz, 3 HP

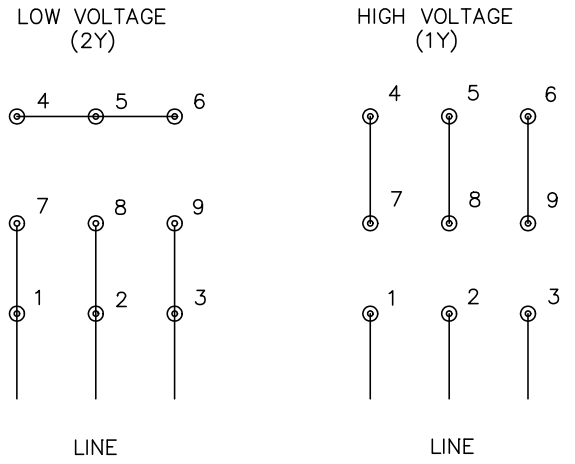
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	27	43	55	62	66	69
Efficiency	78.9	85.6	87	87.3	85.6	83
Speed	891	884	875	865	853	840
Line amperes	3.39	3.82	4.45	5.25	6.18	7.3


ABB Motors and Mechanical Inc.
WINDING # 37WGT944
3 HP 3 PH 60 HZ 865 RPM 460 V 3744M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=49 PU=27.6 LR=30.6 LRA=25.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 37154


37LYF359
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
GREASE FITTING
(EA. END)
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
9.58
7.96
2.26
10.02
5.25
5.19
LEAD
HOLE
Ø1.09
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: H
VERSION: 02
REVISED: 09:49:34 10/11/2022
TDR: 000001197758
MODEL NO. 37LYF359
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5T TENV 37M W/LOCKED BRG
37LYF359

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