



Customer information packet

AOM3705T

3 AIR OVERHP, 865RPM, 3PH, 60HZ, 215T, 3744M

Class - None

Division - Not Applicable

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
Auxillary Box	No Auxillary Box
Auxillary 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	L
Type	AC
Mech. spec.	37F359
Base	
Status	PRD/A
Elec. spec.	37WGT944
Layout	37LYF359
Eff. date	05-10-2024
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. @ 25°C	3.5 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	34°C	
			Locked-rotor Power Factor	32	
			Rotor inertia	1.09 LB-FT ²	

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

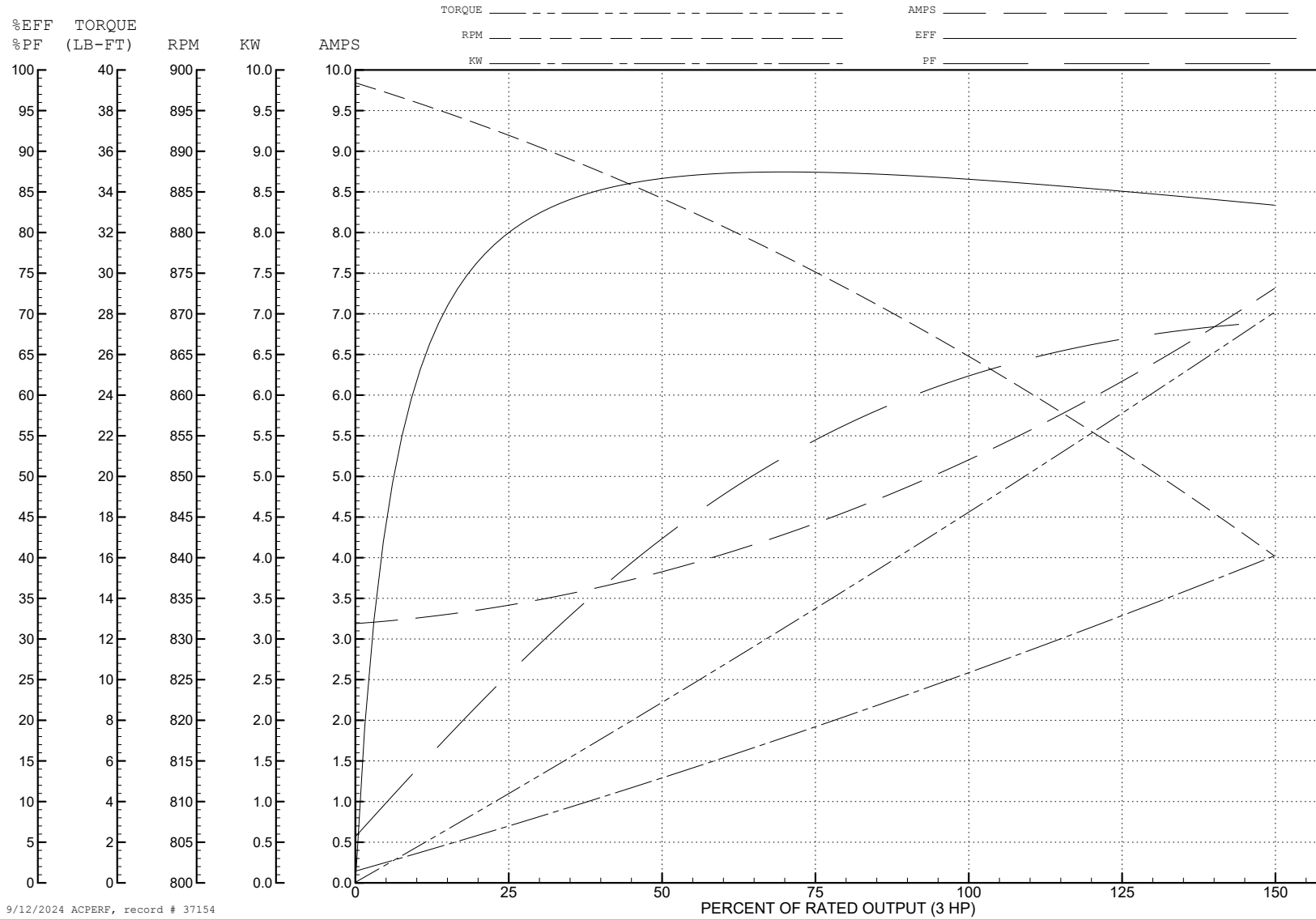
ABB Motors and Mechanical Inc.

WINDING # 37WGT944

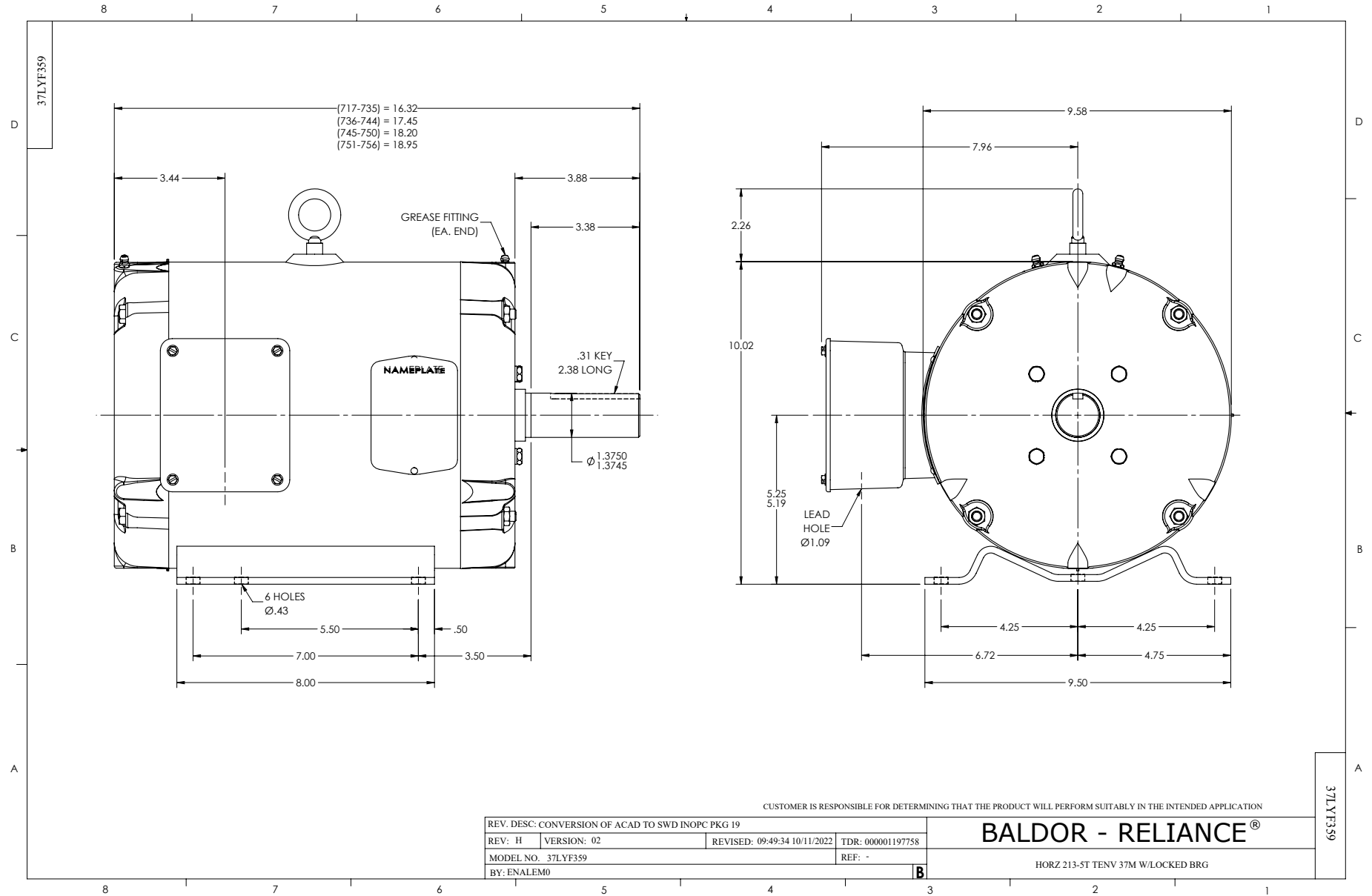
3 HP 3 PH 60 HZ 865 RPM 460 V 3744M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=49 PU=27.6 LR=30.6 LRA=25.6



9/12/2024 ACPERF, record # 37154



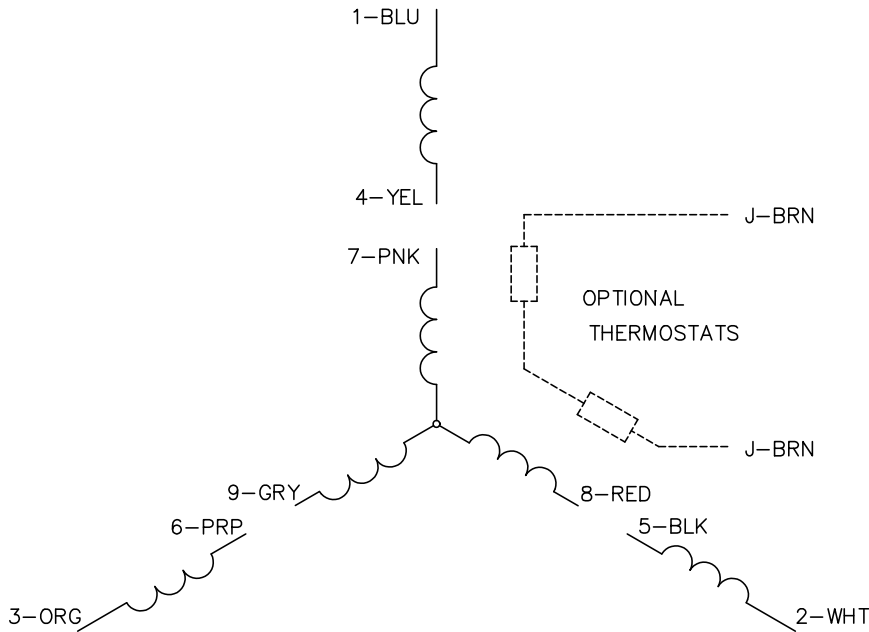
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

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			

BALDOR - RELIANCE®

HORZ 213-5T TENV 37M W/LOCKED BRG

CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS