

**BALDOR • RELIANCE**

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# Customer information packet

## AOM3710T

7.5HP, 1750RPM, 3PH, 60HZ, 213T, 3728M, TEAO, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEAO
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	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 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	21.600 A @ 230.0 V 21.600 A @ 208.0 V 10.800 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	B
Type	AC
Mech. spec.	37F359
Base	
Status	PRD/A
Elec. spec.	37WGL952
Layout	37LYF359
Eff. date	05-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-21-2023

High Voltage Full Load Amps	10.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.32 IN
Power Factor	74
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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**

<b>NP1256L</b>									
<b>CAT.NO.</b>	AOM3710T								
<b>SPEC.</b>	37F359L952G1								
<b>HP</b>	7.5								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	21.6/10.8								
<b>RPM</b>	1750								
<b>FRAME</b>	213T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	A	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	87.5	<b>PF</b>	74						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6307		<b>ODE</b>	6206					
<b>ENCL</b>	TEAO	<b>SN</b>							
	1700 FPM AT 170CFM								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
37-3301	C FACE KIT	P1

**AC Induction Motor Performance Data**

Record # 99005

Typical performance - not guaranteed values

<b>Winding:</b> 37WGL952-R001		<b>Type:</b> 3728M		<b>Enclosure:</b> TEAO	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	7.5	<b>Full Load Torque</b>	22.54 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	21.2-21.3/10.6	<b>Breakdown Torque</b>	59.8 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	36.1 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	41.7 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	H	<b>Starting Current</b>	64.4 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	5.71 A		
<b>NEMA Nom. Eff.</b>	87.5 <b>Power Factor</b>	76	<b>Line-line Res. @ 25°C</b>	1.61 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	77°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	93°C		
		<b>Locked-rotor Power Factor</b>	42.9		
		<b>Rotor inertia</b>	0.689 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	36	57	69	76	80	81	77
<b>Efficiency</b>	78.6	85.8	87.8	87.6	86.6	85.2	86.7
<b>Speed</b>	1789	1777	1766	1752	1738	1721	1744
<b>Line amperes</b>	6.11	7.18	8.71	10.63	12.73	15.13	12.1

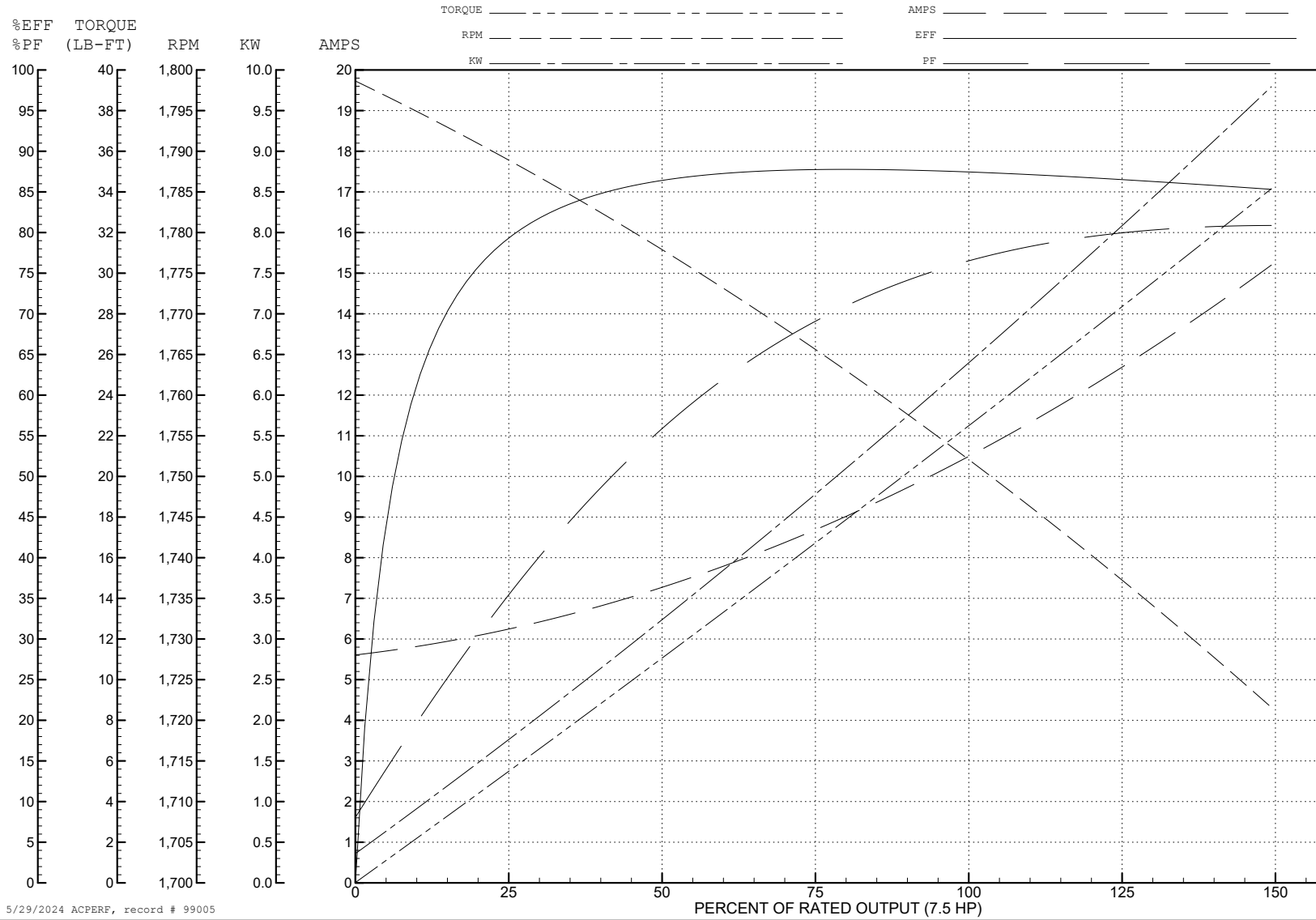
ABB Motors and Mechanical Inc.

WINDING # 37WGL952

7.5 HP 3 PH 60 HZ 1750 RPM 460 V 3728M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=59.8 PU=36.1 LR=41.7 LRA=64.4



5/29/2024 ACPERF, record # 99005

**AC Induction Motor Performance Data**

Record # 99008

Typical performance - not guaranteed values

Winding: 37WGL952-R001		Type: 3728M	Enclosure: TEAO	
<b>Nameplate Data</b>			<b>208 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	7.5	Full Load Torque	22.66 LB-FT	
Volts	208-230/460	Start Configuration	direct on line	
Full Load Amps	21.2-21.3/10.6	Breakdown Torque	48 LB-FT	
R.P.M.	1750	Pull-up Torque	28.1 LB-FT	
Hz	60 Phase	Locked-rotor Torque	32.5 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	113 A	
Service Factor (S.F.)	1.15	No-load Current	8.46 A	
NEMA Nom. Eff.	87.5 Power Factor	Line-line Res. @ 25°C	0.403 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	76°C	
S.F. Amps		Temp. Rise @ S.F. Load	94°C	
		Locked-rotor Power Factor	42.9	
		Rotor inertia	0.689 lb-ft <sup>2</sup>	

**Load Characteristics 208 V, 60 Hz, 7.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	80	84	85	85	85
Efficiency	82.4	87.7	88.7	87.8	86.2	84.2	86.8
Speed	1787	1773	1760	1744	1727	1705	1734
Line amperes	9.63	12.49	16.41	21.2	26.37	32.34	24.3



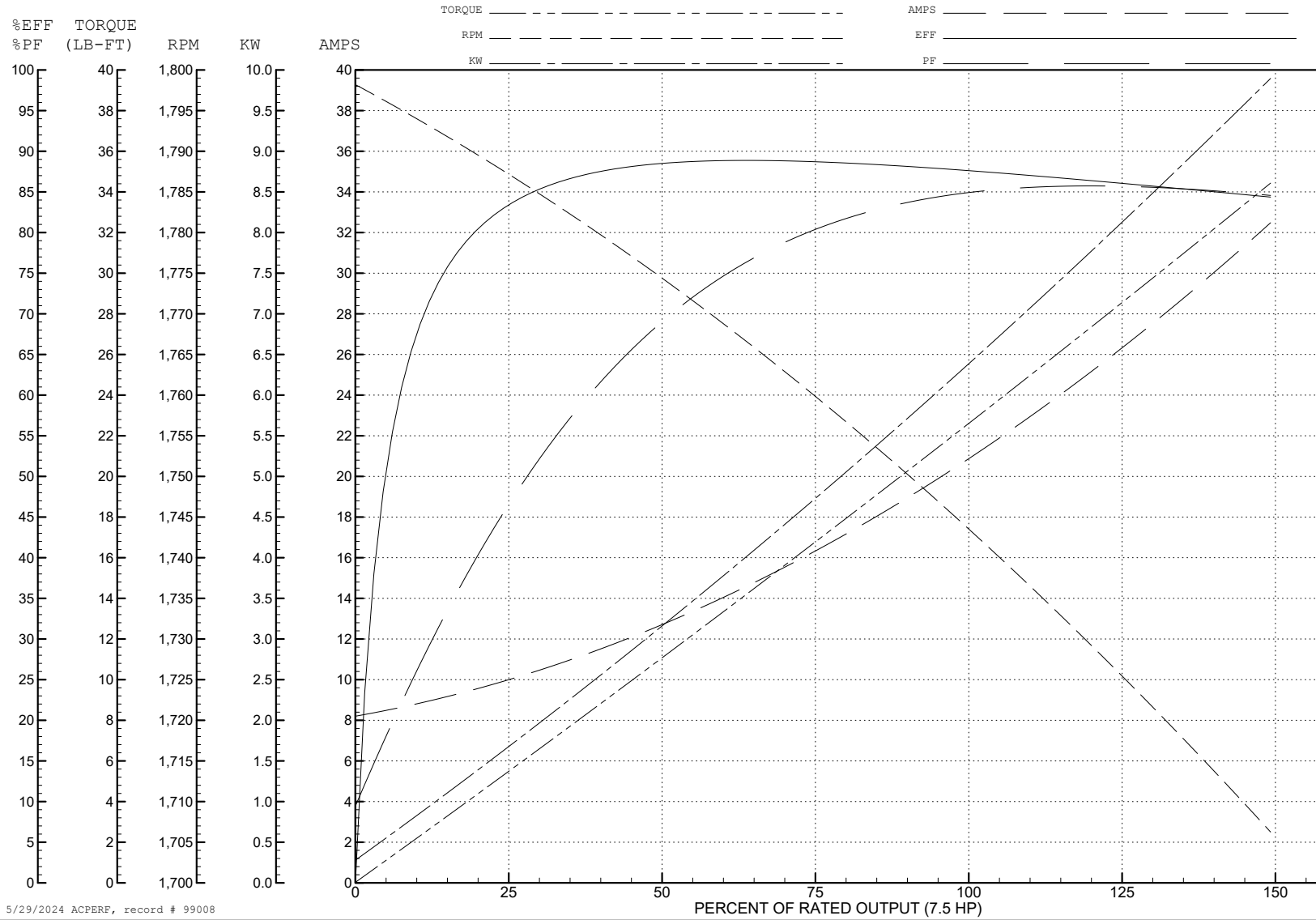
ABB Motors and Mechanical Inc.

WINDING # 37WGL952

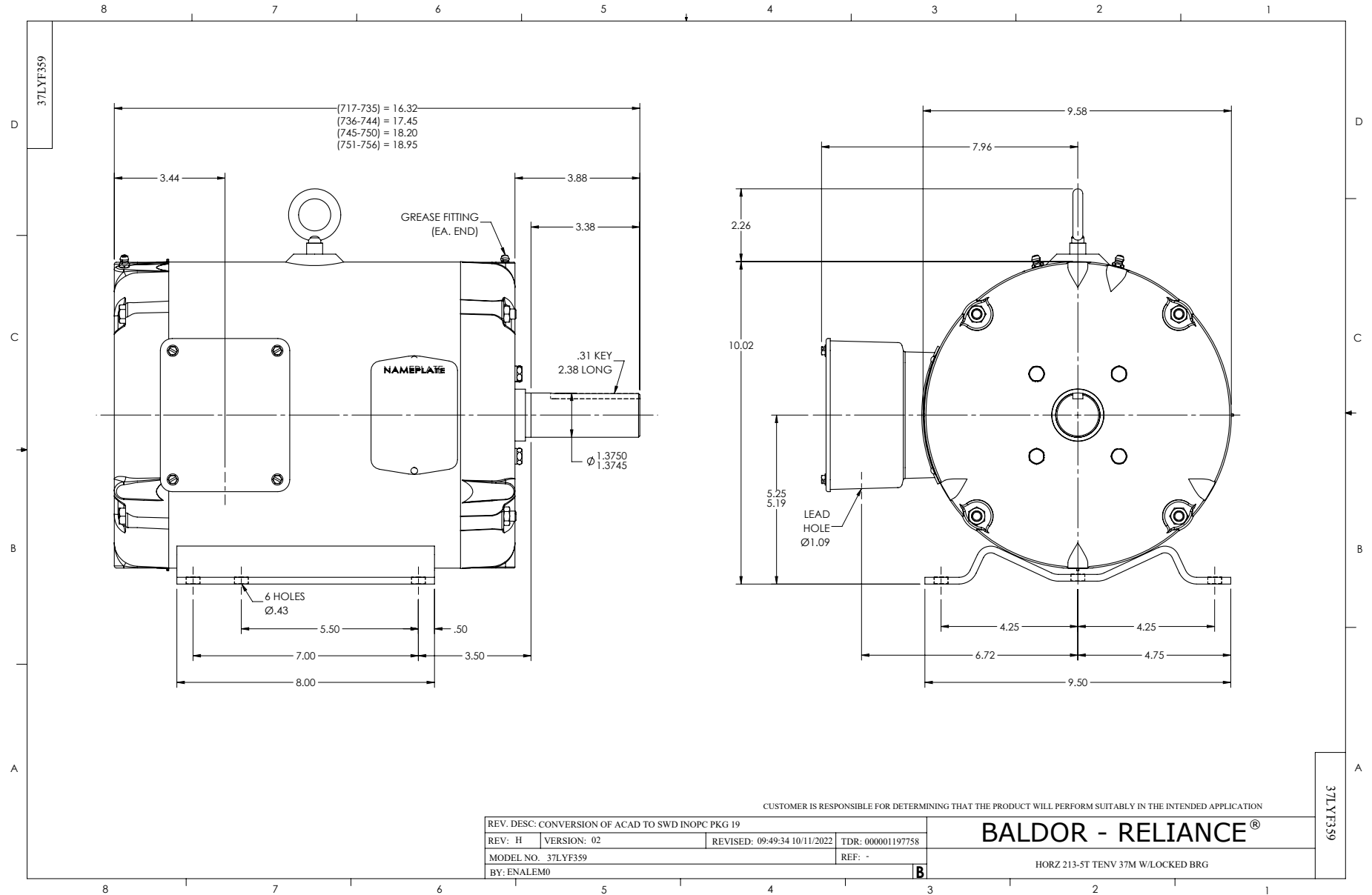
Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1750 RPM 208 V 3728M

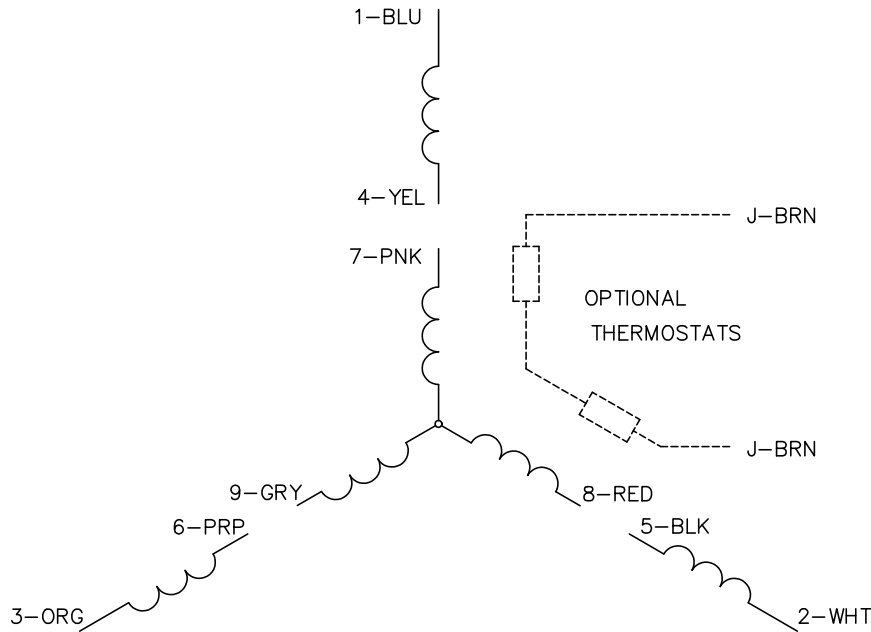
TORQUES (LB-FT): PO=48 PU=28.1 LR=32.5 LRA=113



5/29/2024 ACPERF, record # 99008



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