

**BALDOR® • RELIANCE®**

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# Customer information packet

## AOM3714T

10 AIR OVERHP, 1765RPM, 3PH, 60HZ, 215T, 3740

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	10.000 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	28.800 A @ 230.0 V 28.200 A @ 208.0 V 14.400 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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.	37WGL951
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	14.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	72
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	1765 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>	AOM3714T								
<b>SPEC.</b>	37F359L951H1								
<b>HP</b>	10 AIR OVER								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	28.2-28.8/14.4								
<b>RPM</b>	1765								
<b>FRAME</b>	215T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	A	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	89.5	<b>PF</b>	72						
<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 # 99003

Typical performance - not guaranteed values

Winding: 37WGL951-R001			Type: 3740M			Enclosure: TEAO		
<b>Nameplate Data</b>				<b>460 V, 60 Hz: High Voltage Connection</b>				
Rated Output (HP)	10 AIR OVER			Full Load Torque	29.52 LB-FT			
Volts	208-230/460			Start Configuration	direct on line			
Full Load Amps	28.2-28.8/14.4			Breakdown Torque	126 LB-FT			
R.P.M.	1765			Pull-up Torque	57.3 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque	73.6 LB-FT			
NEMA Design Code	A	KVA Code	K	Starting Current	111 A			
Service Factor (S.F.)	1.15			No-load Current	8.67 A			
NEMA Nom. Eff.	89.5	Power Factor	72	Line-line Res. @ 25°C	0.991 Ω			
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	77°C			
S.F. Amps				Temp. Rise @ S.F. Load	90°C			
				Locked-rotor Power Factor	39.5			
				Rotor inertia	0.984 lb-ft <sup>2</sup>			

**Load Characteristics 460 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	52	65	72	77	80	75
Efficiency	81	88.3	89.3	89.7	89.2	88.5	89.4
Speed	1793	1785	1777	1769	1760	1751	1764
Line amperes	9.09	10.33	11.98	14.36	16.93	19.67	15.9

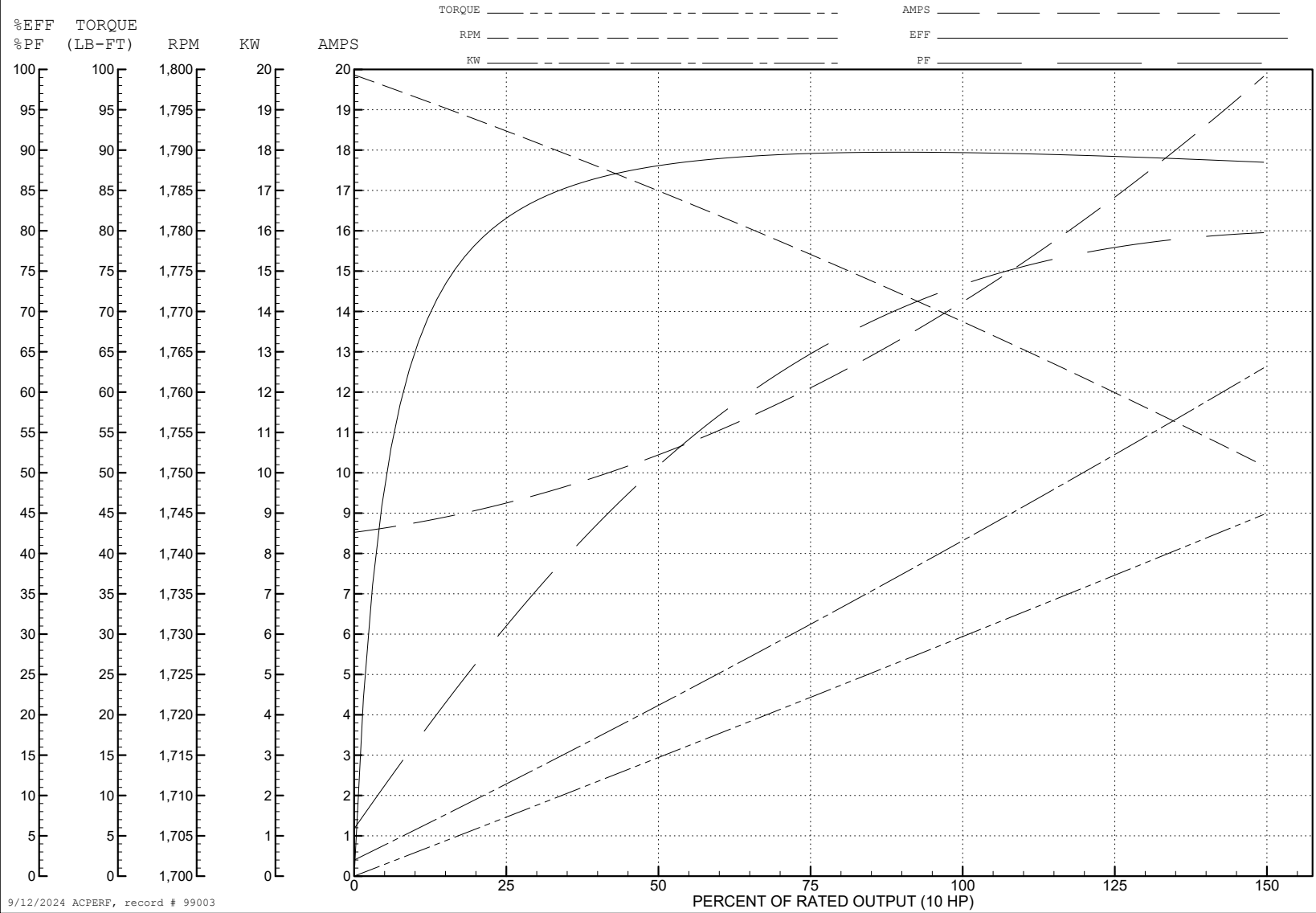
ABB Motors and Mechanical Inc.

WINDING # 37WGL951

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1765 RPM 460 V 3740M

TORQUES (LB-FT): PO=126 PU=57.3 LR=73.6 LRA=111



9/12/2024 ACPERF, record # 99003

**AC Induction Motor Performance Data**

Record # 99004

Typical performance - not guaranteed values

Winding: 37WGL951-R001		Type: 3740M	Enclosure: TEAO	
<b>Nameplate Data</b>			<b>208 V, 60 Hz: Low Voltage Connection</b>	
Rated Output (HP)	10 AIR OVER	Full Load Torque	29.59 LB-FT	
Volts	208-230/460	Start Configuration	direct on line	
Full Load Amps	28.2-28.8/14.4	Breakdown Torque	101 LB-FT	
R.P.M.	1765	Pull-up Torque	44.4 LB-FT	
Hz	60 Phase	Locked-rotor Torque	56.9 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	194 A	
Service Factor (S.F.)	1.15	No-load Current	12.79 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	0.248 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	72°C	
S.F. Amps		Temp. Rise @ S.F. Load	88°C	
		Locked-rotor Power Factor	39.5	
		Rotor inertia	0.984 lb-ft <sup>2</sup>	

**Load Characteristics 208 V, 60 Hz, 10 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	65	76	81	84	85	83
Efficiency	84.9	90.4	90.5	90.2	89.2	88	89.6
Speed	1792	1783	1773	1764	1753	1742	1757
Line amperes	14.18	17.73	22.2	28.15	34.52	41.19	32



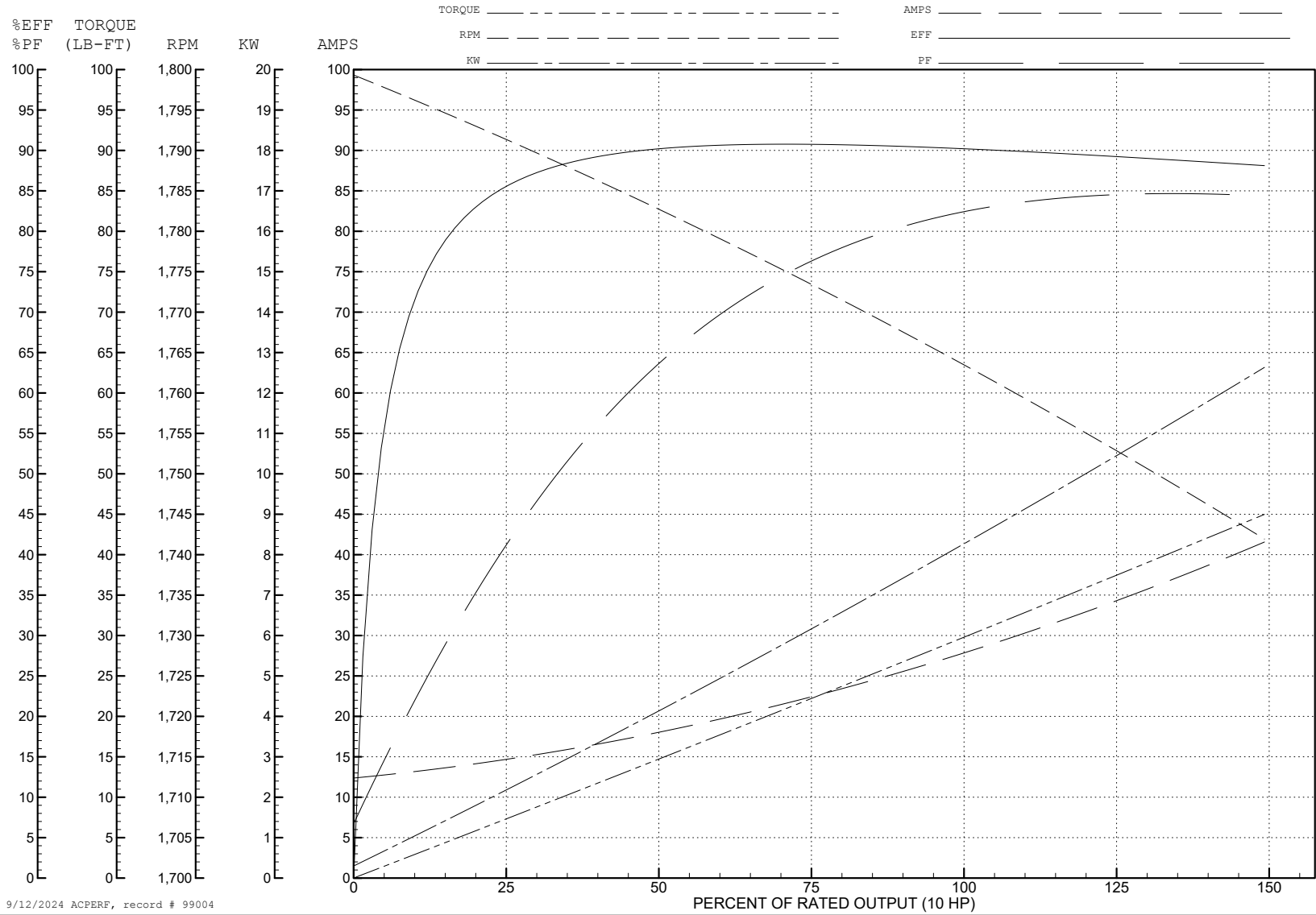
ABB Motors and Mechanical Inc.

WINDING # 37WGL951

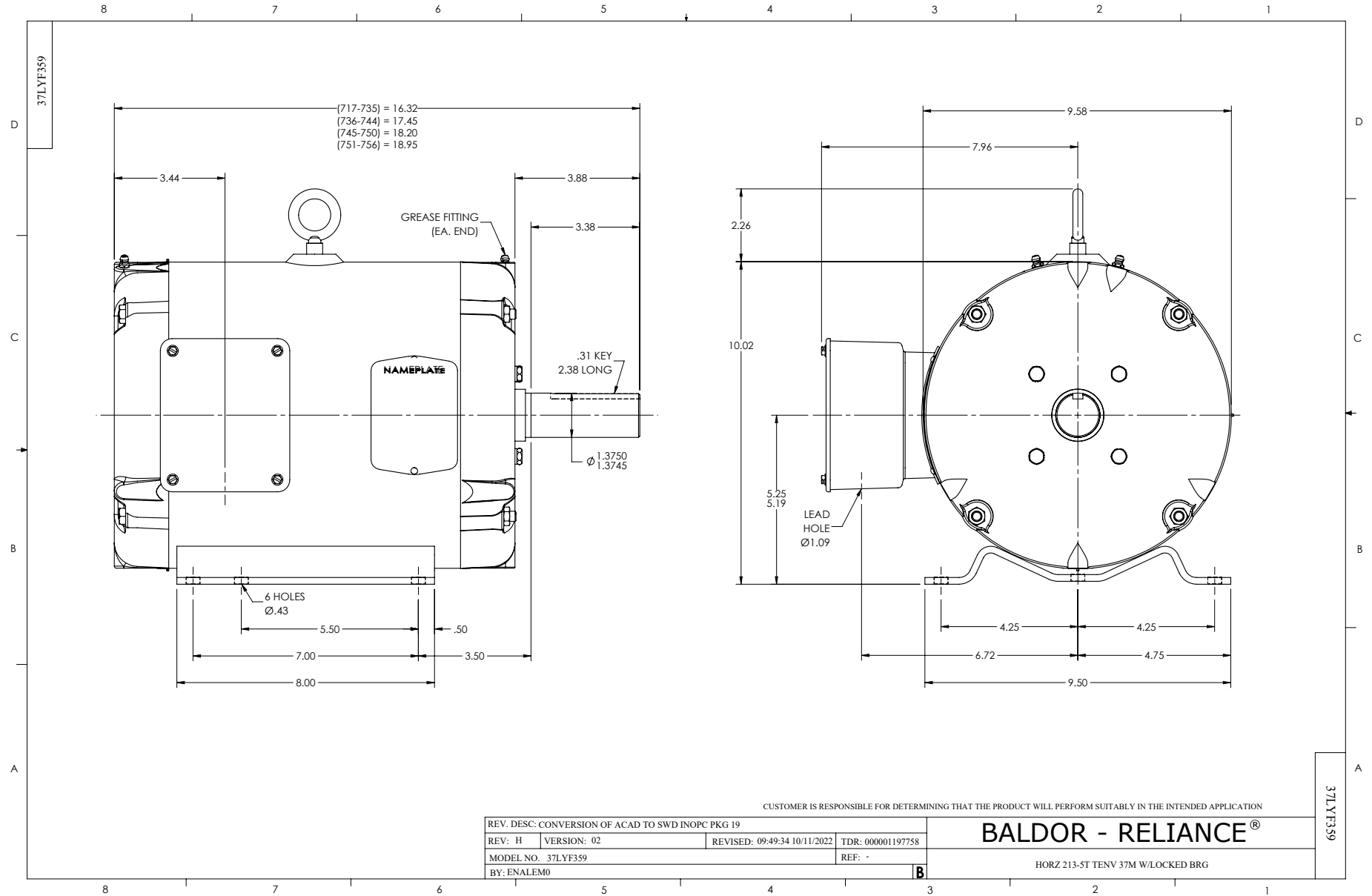
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1765 RPM 208 V 3740M

TORQUES (LB-FT): PO=101 PU=44.4 LR=56.9 LRA=194



9/12/2024 ACPERF, record # 99004



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

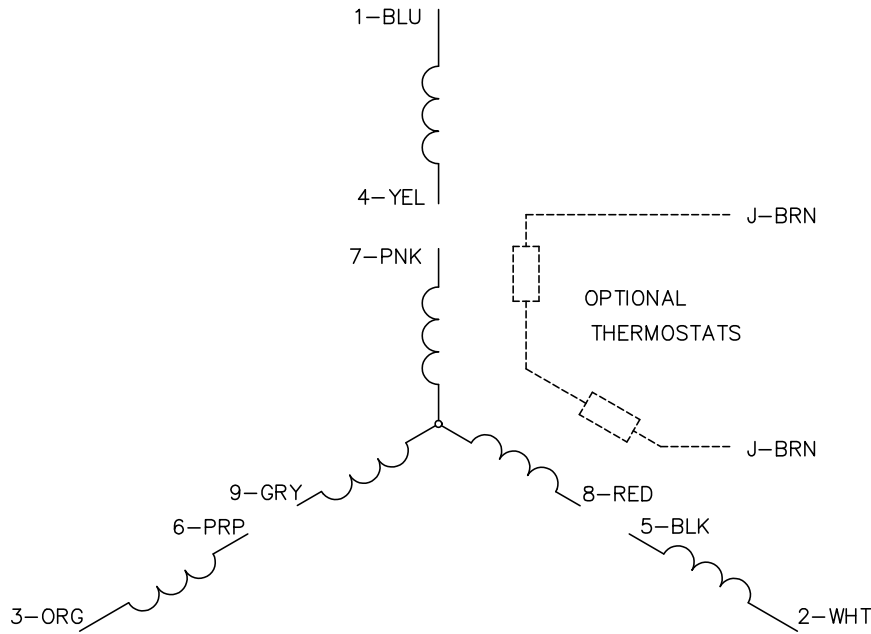
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19			
REV: H	VERSION: 02	REVISED: 09:49:34 10/11/2022	TDR: 000001197758
MODEL NO. 37LYF359		REF: -	
BY: ENALEM0			

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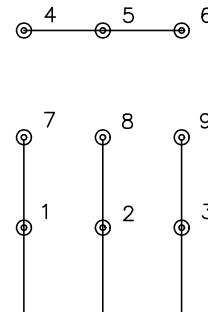
HORZ 213-5T TENV 37M W/LOCKED BRG

37LYF359

CD0005

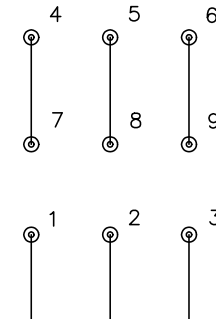


LOW VOLTAGE  
(2Y)



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