ABB BALDOR RELIANCE

Customer information packet

AOM3714T

10 AIR OVERHP, 1765RPM, 3PH, 60HZ, 215T, 3740
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	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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	C
Type	AC
Mech. spec.	37F359
Base	
Status	PRD/A
Elec. spec.	37WGL951
Layout	37LYF359
Eff. date	10-09-2025
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

NP1256L											
CAT.NO.	AOM3714T										
SPEC.	37F359L951H1										
HP	10 AIR OVER										
VOLTS	208-230/460										
AMP	28.2-28.8/14.4										
RPM	1765										
FRAME	215T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	89.5	**PF**	72								
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEAO	**SN**									
	1700 FPM AT 170CFM										

Accessories

Part number	Description	Multiplier
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

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	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-ft²

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

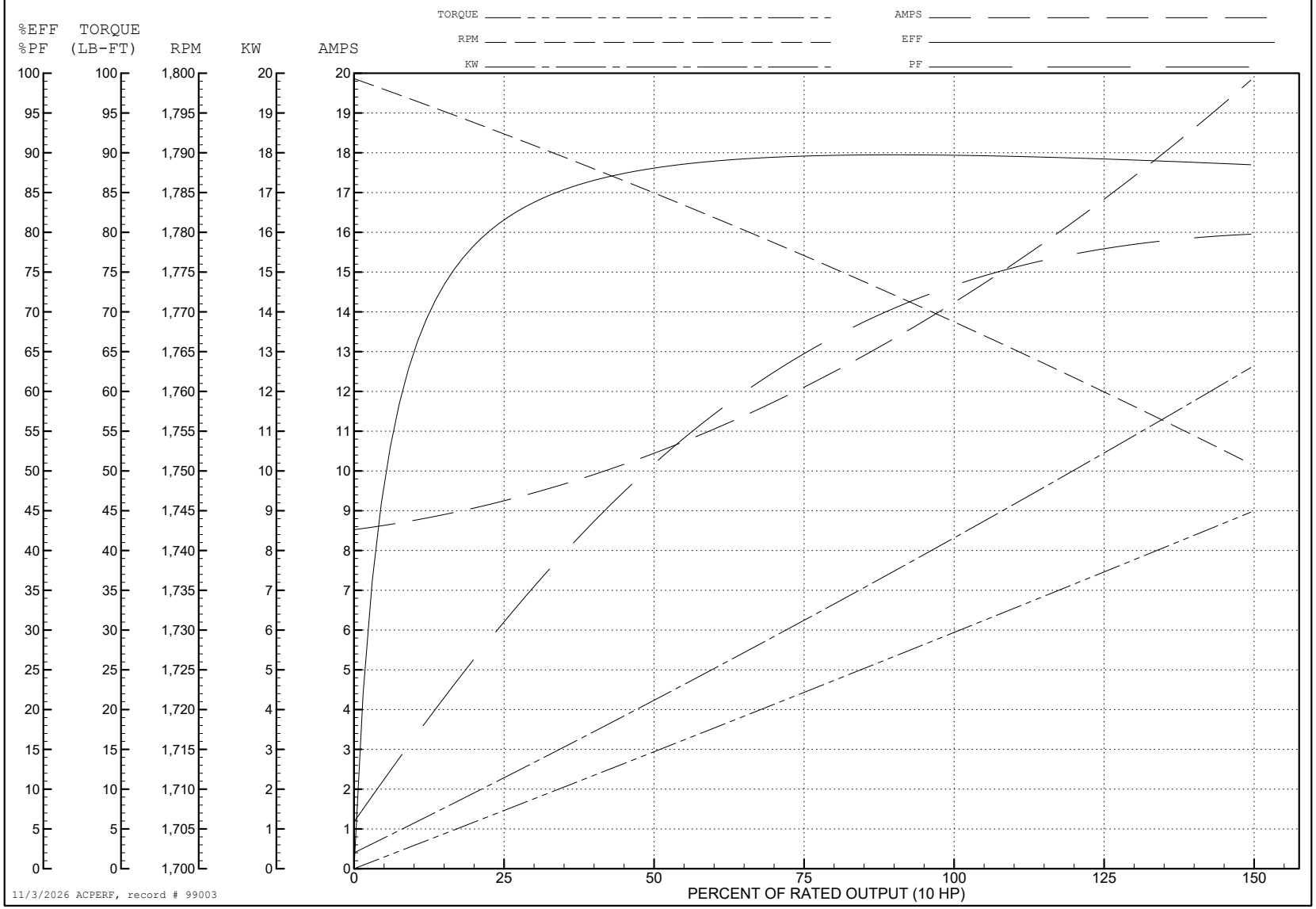
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WINDING # 37WGL951

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

Typical performance - not guaranteed values.

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



AC Induction Motor Performance Data
Record # 99004
Typical performance - not guaranteed values

Winding: 37WGL951-R001	**Type:** 3740M	**Enclosure:** TEAO

Nameplate Data				**208 V, 60 Hz: Low Voltage Connection**	
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**	3	**Locked-rotor Torque**	56.9 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	194 A
Service Factor (S.F.)			1.15	**No-load Current**	12.79 A
NEMA Nom. Eff.	89.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	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-ft²

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

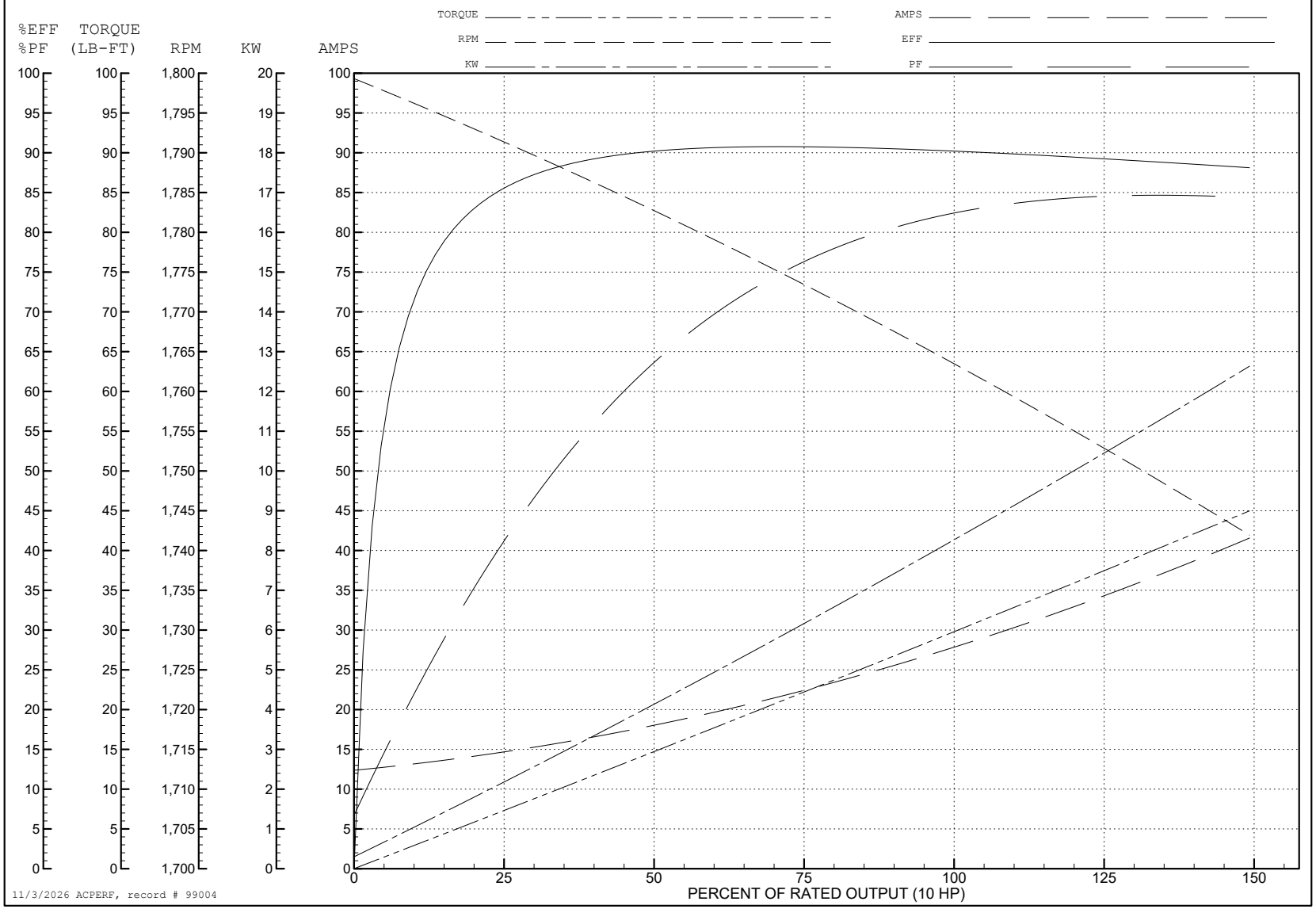
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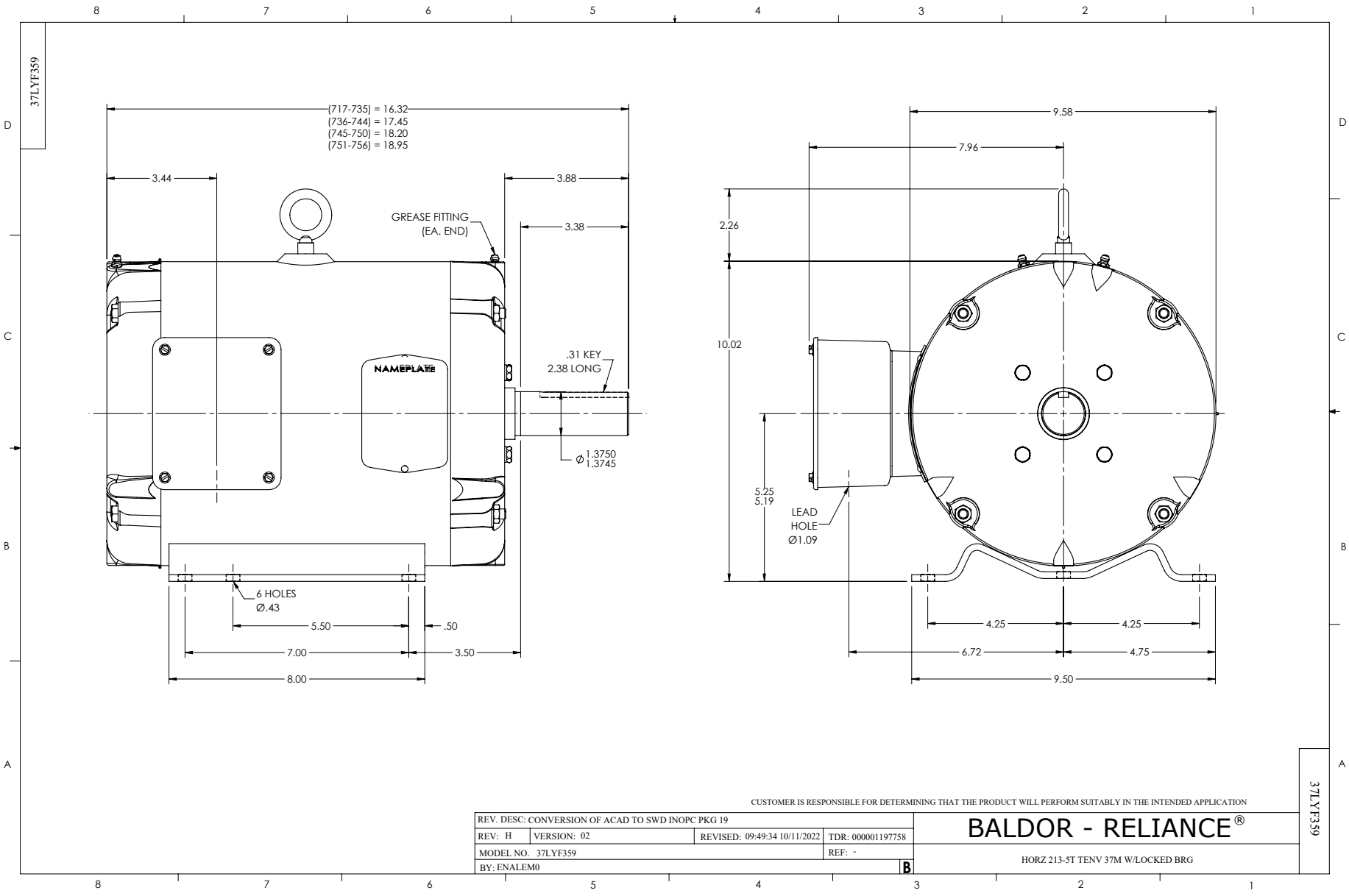
WINDING # 37WGL951

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

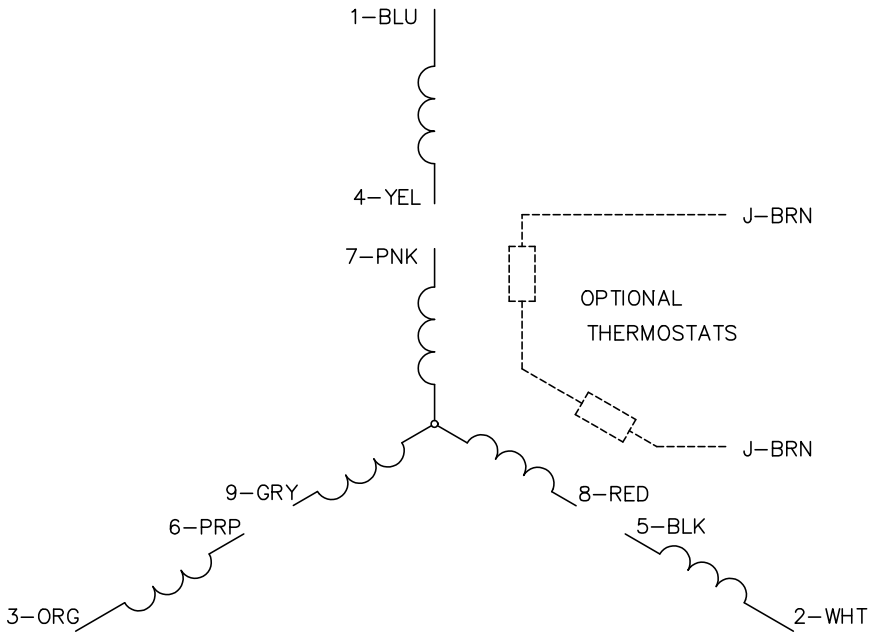
Typical performance - not guaranteed values.

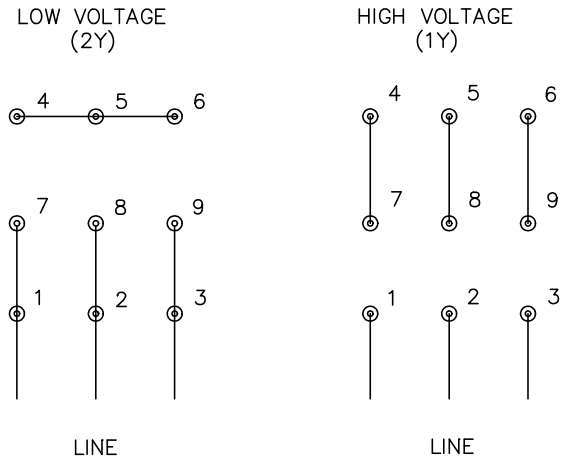
TORQUES(LB-FT): PO=101 PU=44.4 LR=56.9 LRA=194




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