

ABB BALDOR RELIANCE III

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
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. @ 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-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

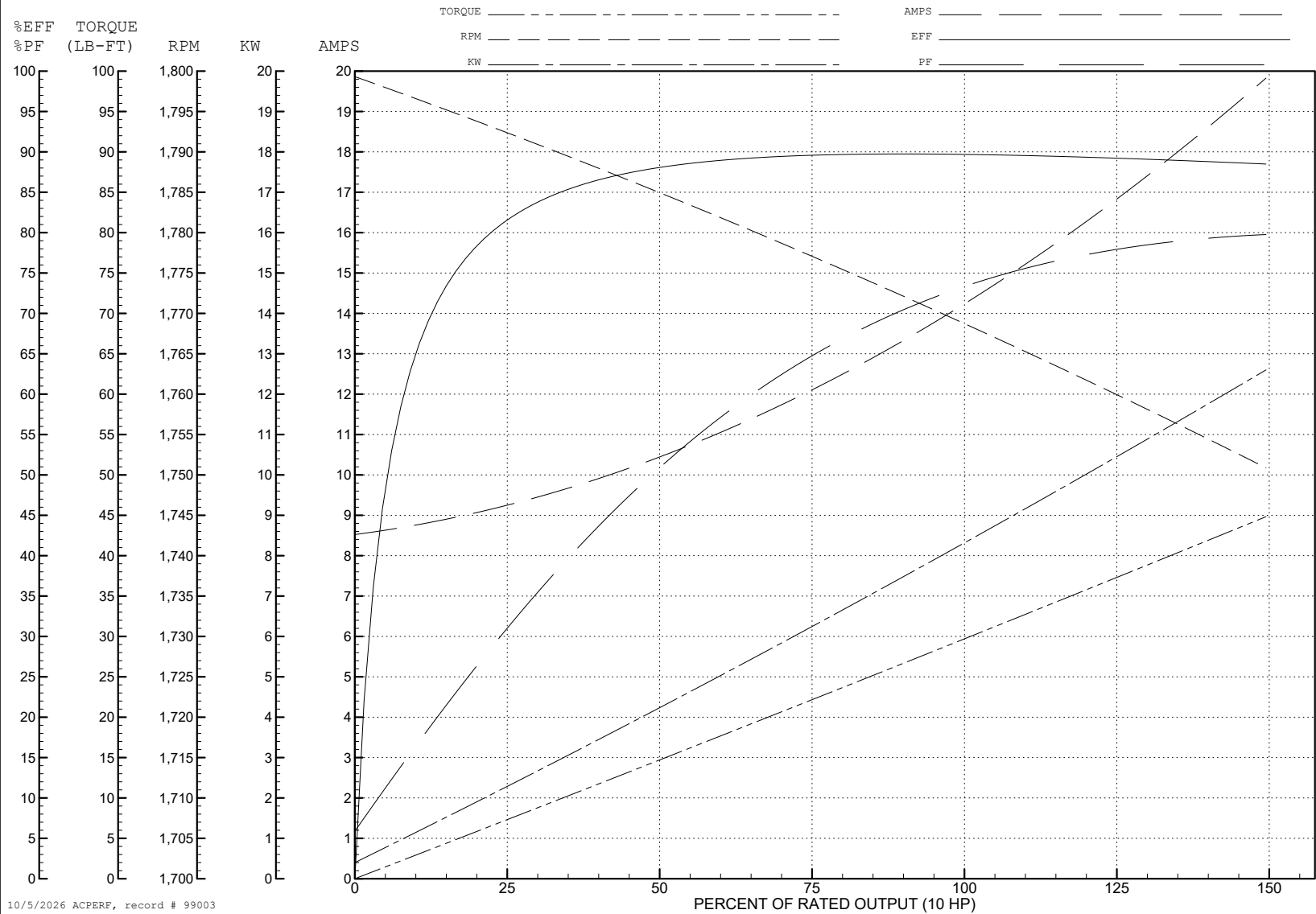
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WINDING # 37WGL951

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



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. @ 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-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

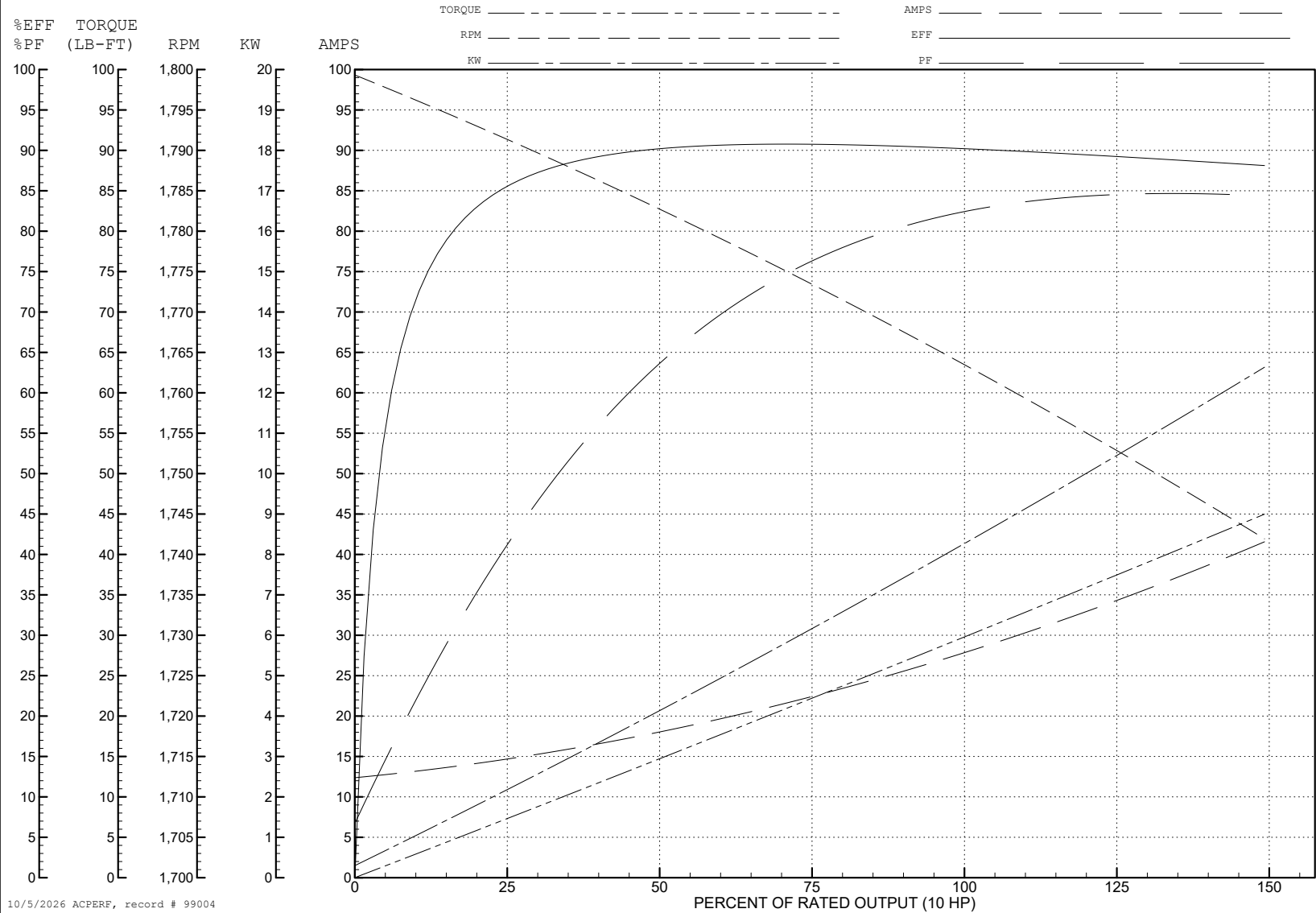
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WINDING # 37WGL951

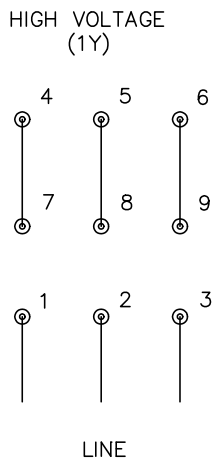
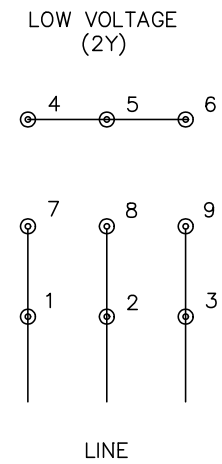
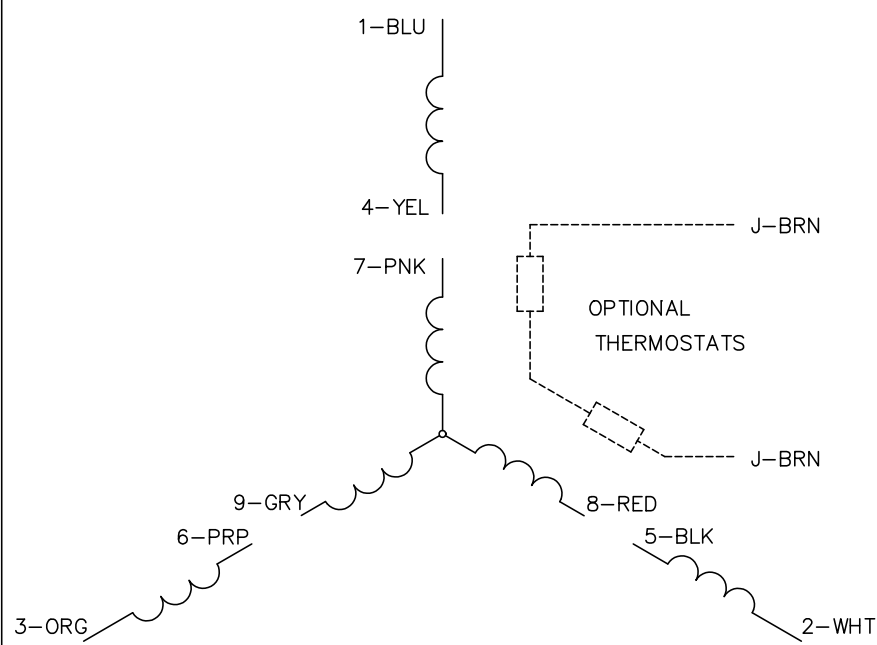
Typical performance - not guaranteed values.

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

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



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005