

ABB BALDOR RELIANCE III

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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	C
Type	AC
Mech. spec.	37F359
Base	
Status	PRD/A
Elec. spec.	37WGL952
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	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

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

Parts List

Part number	Description	Quantity
SA412872	SA 37F359L952G1	1.000 ea
RA404559	RA 37F359L952G1	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3004	37 CB CASTING W/1.09 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
10XN2520A10	1/4-20X 5/8 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A02	FR ENDPLATE, 37L&M-TENV MTR, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A09	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 99005

Typical performance - not guaranteed values

Winding: 37WGL952-R001			Type: 3728M		Enclosure: TEAO	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		7.5		Full Load Torque		22.54 LB-FT
Volts		208-230/460		Start Configuration		direct on line
Full Load Amps		21.2-21.3/10.6		Breakdown Torque		59.8 LB-FT
R.P.M.		1750		Pull-up Torque		36.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		41.7 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		64.4 A
Service Factor (S.F.)		1.15		No-load Current		5.71 A
NEMA Nom. Eff.		87.5	Power Factor	Line-line Res. @ 25°C		1.61 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		77°C
S.F. Amps				Temp. Rise @ S.F. Load		93°C
				Locked-rotor Power Factor		42.9
				Rotor inertia		0.689 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

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

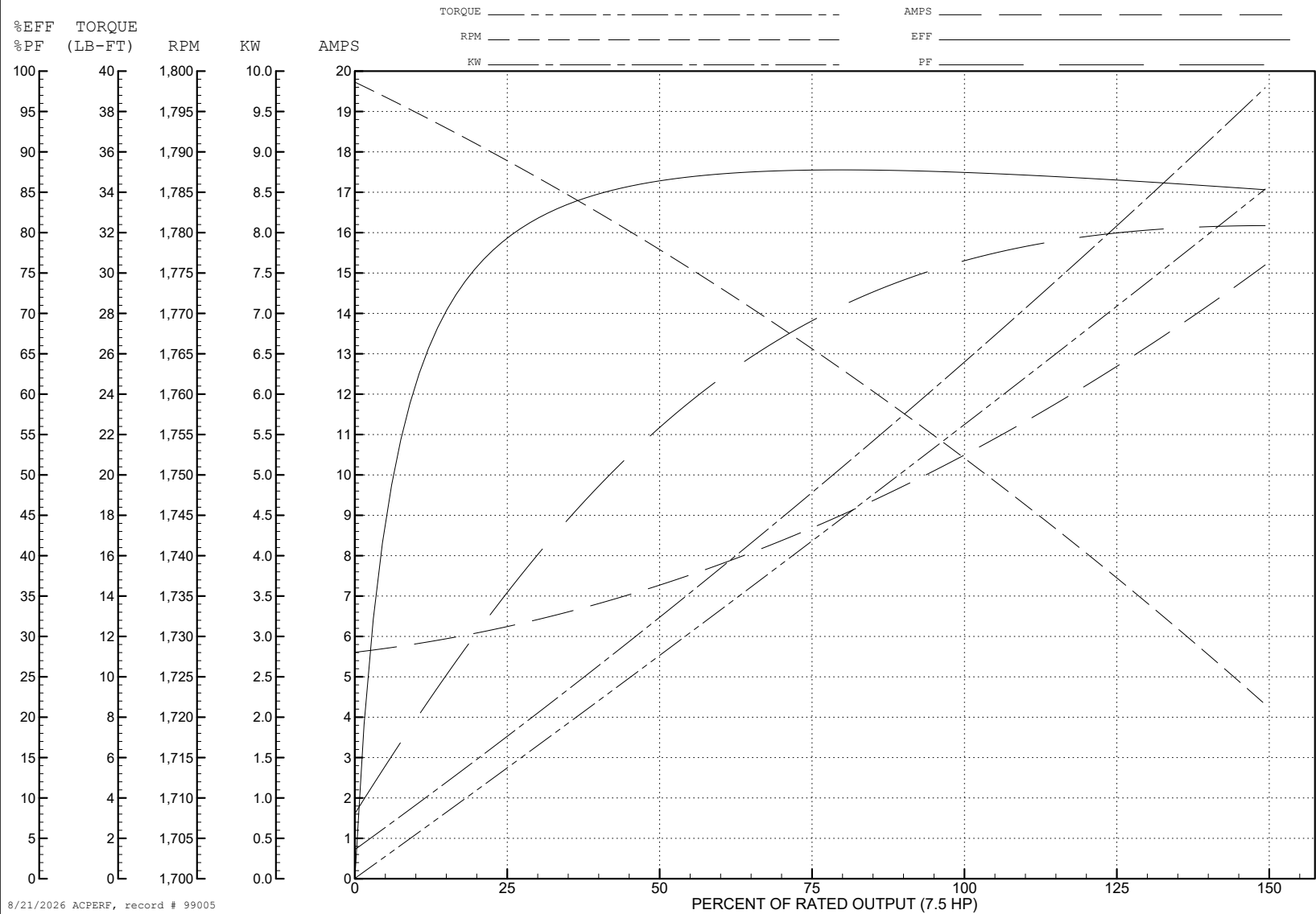
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WINDING # 37WGL952

Typical performance - not guaranteed values.

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

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



Typical performance - not guaranteed values

% 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

