



Product Information Packet

AOM3714T

10HP,1770RPM,3PH,60HZ,215T,3740M,TENV,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS275	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37F359	Layout:	37LYF359	Poles:	04	Created Date:	07-18-2007
Base:	RG	Eff. Date:	01-19-2017	Leads:	9#14 36" LG	Y	

Specs			
Catalog Number:	AOM3714T	Heater Indicator:	No Heater
Enclosure:	TEAO	Insulation Class:	F
Frame:	215T	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	10.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3740M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	77
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	13.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	27.000 A @ 230.0 V	Shaft Rotation:	Reversible
	28.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	AOM3714T											
SPEC.	37F359S275H1											
HP	10 AIR OVER											
VOLTS	208-230/460											
AMP	28-27/13.5											
RPM	1770											
FRAME	215T				HZ		60			PH	3	
SER.F.	1.15		CODE		K		DES		A		CLASS	F
NEMA-NOM-EFF	89.5			PF		77						
RATING	40C AMB-CONT											
CC				USABLE AT 208V								
DE	6307			ODE		6206						
ENCL	TEAO		SN									
	1700 FPM AT 170CFM											

Parts List		
Part Number	Description	Quantity
SA160713	SA 37F359S275H1	1.000 EA
RA149298	RA 37F359S275H1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT 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
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
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
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
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

Accessories		
Part Number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 37123 - Typical performance - not guaranteed values

Winding: 37WGS275-R003	Type: 3740M	Enclosure: TEAO
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10 AIR OVER			Full Load Torque	29.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	28-27/13.5			Breakdown Torque	121 LB-FT
R.P.M.	1770			Pull-up Torque	53.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	68.8 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	107 A
Service Factor (S.F.)	1.15			No-load Current	7.31 A
NEMA Nom. Eff.	89.5	Power Factor	77	Line-line Res. @ 25°C	1.15 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	78°C
S.F. Amps				Temp. Rise @ S.F. Load	92°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.984 LB-FT ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	70	77	81	84	79
Efficiency	81.5	88.6	89.4	89.6	89	88.1	89.2
Speed	1793	1785	1777	1769	1760	1751	1764
Line amperes	7.82	9.21	11	13.5	16.2	19	15.1

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values





