



Product Information Packet

CSSEWDM3709T

7.5HP,3500RPM,3PH,60HZ,213TC,3734M,TEFC

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS136	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37J859	Layout:	37LYJ859	Poles:	02	Created Date:	01-24-2011
Base:	RG	Eff. Date:	03-08-2017	Leads:	9#14		

Specs			
Catalog Number:	CSSEWDM3709T	Inverter Code:	Inverter Ready
Enclosure:	TEFC	KVA Code:	K
Frame:	213TC	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Stainless Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	7.500 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	3734M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	93
	CSA	Product Family:	Washdown All Stainless
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	16.800 A @ 230.0 V	Shaft Extension Location:	Pulley End
	19.900 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding

	8.300 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	NONE (OLD)
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	H	Winding Thermal 2:	None

Nameplate NP1953C01

CAT.NO.	CSSEWDM3709T									
SPEC.	37J859S136G1									
HP	7.5									
VOLTS	230/460									
AMP	16.8/8.3									
RPM	3500									
FRAME	213TC				HZ		60		PH	3
SER.F.	1.15		CODE		K	DES		A	CLASS	H
NEMA-NOM-EFF	91			PF		93				
RATING	40C AMB-CONT									
CC	010A			USABLE AT 208V					19.9	
DE	6307			ODE		6307				
ENCL	TEFC		SN							

Parts List		
Part Number	Description	Quantity
SA215844	SA 37J859S136G1	1.000 EA
RA203035	RA 37J859S136G1	1.000 EA
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 EA
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37FE1910A06	FREP TEFC 307 BRG NO GRSR W/SEAL 4X.125N	1.000 EA
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 EA
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 EA
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
37PE1911A11	PUEP, MACH - 307 BRG WD8 (STAINLESS)	1.000 EA
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
RM1070A47	O-RING, -011 VITON/FKM .070CS X .301ID	4.000 EA
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 EA
10XN1032S06	HEX HD CAP SCREW, SS	3.000 EA
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 EA
37GS3010SP	1/16"WHITE LID GASKET	1.000 EA
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 EA
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 QT
MJ5004A37	#76732 LOCTITE ANTISEIZE THRD COMPOUND	0.005 EA

Parts List (continued)		
Part Number	Description	Quantity
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 EA
HA3104S14	300UBOLT 12.125LG SS	4.000 EA
37PA1039	PALLET PACK GRP, PRINT PK1026A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
HA5027A07	85XU1208S08 FACE DRAIN PINS BAGGED	1.000 EA

AC Induction Motor Performance Data

Record # 57387 - Typical performance - not guaranteed values

Winding: 37WGS136-R005	Type: 3734M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	11.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	16.8/8.3			Breakdown Torque	66.3 LB-FT
R.P.M.	3500			Pull-up Torque	25.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	36.7 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	86.2 A
Service Factor (S.F.)	1.15			No-load Current	3.25 A
NEMA Nom. Eff.	91	Power Factor	93	Line-line Res. @ 25°C	0.913 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C
				Locked-rotor Power Factor	32.4
				Rotor inertia	0.311 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	85	89	94	95	100	95
Efficiency	84.7	90.9	92.1	92	91.4	90.7	91.6
Speed	3584	3564	3541	3520	3498	3481	3508
Line amperes	3.54	4.72	6.63	8.32	10.3	11.8	9.5

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





