

BALDOR® • RELIANCE

Product Information Packet

M4338T

30HP,880RPM,3PH,60HZ,364T,1450M,TEFC,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1450M	Elec. Spec:	14WGY103	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	14C51	Layout:	14LYC051
Frame:	364T	Mounting:	F1	Poles:	08	Created Date:	11-03-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	09-05-2014
Leads:	9#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M4338T									
SPEC.	14C051Y103H1									
HP	30									
VOLTS	230/460									
AMP	88/44									
RPM	880									
FRAME	364T	HZ			60	PH		3		
SER.F.	1.15	CODE			G	DES		B	CLASS	F
NEMA-NOM-EFF	91	PF			73					
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V								
DE	6313	ODE			6312					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA210206	SA 14C051Y103H1	1.000 EA
RA197463	RA 14C051Y103H1	1.000 EA
10CB3002A01	CB 309 3.62 LD HOLE, .44 MTG HOLE & 3.50	1.000 EA
14GS1000SP	GASKET, CONDUIT BOX	1.000 EA
10XN3816K12	3/8-16 X 3/4 HEX HD CAP GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA
14EP1102A11	FR ENDPLATE, 364-365 312 BRG 364-5T	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN5013K40	1/2-13X 2 1/2 HEX HD X	6.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	6.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
14EP1703A13	PU ENDPLATE, 364-5T TEFC	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN5013K40	1/2-13X 2 1/2 HEX HD X	6.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	6.000 EA
HW4600B42	V-RING SLINGER 2.375 X 3.070 X 0.280	1.000 EA
14FH1002A01	FAN HSG CAST	1.000 EA
10XN3816K24	3/8-16 X 1.50 HEX HD CAP SCREW, GRADE 5	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	3.000 EA
10CB3500	CONDUIT BOX LID, CAST	1.000 EA
10GS1000	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501J36	KEY, 5/8 SQ X 4.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.220 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
10FN3001A03	EXTERNAL FAN (KENCO)	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
HA6390A01	HOSE CLAMP FOR 3.12 DIA S.S. OR PLATED	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.140 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	4.000 EA
LC0005E02	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

Accessories		
Part Number	Description	Multiplier
14-1704	C FACE KIT	A8
14EP1705A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 32782 - Typical performance - not guaranteed values

Winding: 14WGY103-R001	Type: 1450M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30			Full Load Torque	181 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	88/44			Breakdown Torque	516 LB-FT
R.P.M.	880			Pull-up Torque	244 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	288 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	233 A
Service Factor (S.F.)	1.15			No-load Current	25.8 A
NEMA Nom. Eff.	91	Power Factor	73	Line-line Res. @ 25°C	0.222 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	82°C
S.F. Amps				Temp. Rise @ S.F. Load	94°C
				Rotor inertia	14.3 LF ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	74	78	80	76
Efficiency	80.8	88	90.3	91.1	91.3	91.1	90.7
Speed	894	893	891	886	880	878	882
Line amperes	27.5	31.3	36.8	43.6	51.4	60.3	48.3

Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values





