

BALDOR® • RELIANCE

Product Information Packet

M4103T-50

25HP,1460RPM,3PH,50HZ,284T,0964M,TEFC,F1

Part Detail							
Revision:	Y	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0964M	Elec. Spec:	09WGZ210	CD Diagram:	CD0044
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	09F436	Layout:	09LYF436
Frame:	284T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	02-03-2014
Leads:	12#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.										
SPEC.	09F436Z210									
HP	25									
VOLTS	220/380/440									
AMP	62/35/31									
RPM	1460									
FRAME	284T	HZ			50	PH		3		
SER.F.	1.15	CODE			H	DES		B	CLASS	F
NEMA-NOM-EFF	91.7	PF			84					
RATING	40C AMB-CONT									
CC		USABLE AT 208V								
DE	6311	ODE			6208					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA144244	SA 09F436Z210	1.000 EA
RA133446	RA 09F436Z210	1.000 EA
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA
12GS1000	GASKET	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 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
09EP1100A14SP	ENDPLATE, MACH	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
09EP1116A01	PU ENDPLATE, MACH	1.000 EA
HA3113A15	THRUBOLT 3/8-16 X 18.875 W/3.50 THD LENG	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
09FH4000SP	FAN COVER, STAMPED	1.000 EA
HA2081A05	SPACER TUBE, 309 FAN HSG, 2.00 LONG	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
10CB3500	CONDUIT BOX LID, CAST	1.000 EA
10GS1000	GASKET, CONDUIT BOX LID	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW4600B40	V-RING SLINGER 2.000 X 2.680 X 0.280	1.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.050 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
09FN3001A01SP	EXTERNAL FAN, PLASTIC	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

Accessories		
Part Number	Description	Multiplier
09-1310	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 22406 - Typical performance - not guaranteed values

Winding: 09WGZ210-R001	Type: 0964M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	25			Full Load Torque	89.2 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	52/35/31			Breakdown Torque	254 LB-FT
R.P.M.	1460			Pull-up Torque	121 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	199 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	219 A
Service Factor (S.F.)	1.15			No-load Current	10.9 A
NEMA Nom. Eff.	91.7	Power Factor	84	Line-line Res. @ 25°C	0.33 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	68°C
S.F. Amps				Temp. Rise @ S.F. Load	83°C
				Rotor inertia	2.8 LF ²

Load Characteristics 440 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	74	83	84	86	85	85
Efficiency	89.3	92.8	93.1	92.3	91.5	89.8	91.8
Speed	1491	1483	1473	1462	1450	1438	1455
Line amperes	12.9	17.9	23.9	31.2	38.6	47	35.6

Performance Graph at 440V, 50Hz, 25.0HP Typical performance - Not guaranteed values





