

BALDOR® • RELIANCE

Product Information Packet

M4104

30HP,1765RPM,3PH,60HZ,326U,1044M,TEFC,F1

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1044M	Elec. Spec:	10WGX259	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	10F644	Layout:	10LYF644
Frame:	326U	Mounting:	F1	Poles:	04	Created Date:	04-29-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	06-24-2014
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M4104									
SPEC.	10F644X259H2									
HP	30									
VOLTS	230/460									
AMP	74/37									
RPM	1765									
FRAME	326U	HZ			60	PH		3		
SER.F.	1.15	CODE			G	DES		B	CLASS	F
NEMA-NOM-EFF	92.4	PF			82					
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V			79					
DE	6312	ODE			6309					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA194158	SA 10F644X259H2	1.000 EA
RA181748	RA 10F644X259H2	1.000 EA
09FN3001B02	EXTERNAL FAN, PLASTIC	1.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	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
10EP1106A01	FR 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
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K32	1/4-20 X 2.00 HX HD SCRW GRADE 5, ZINC P	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
10XN3118K44	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10EP1108A01	PULLEY ENDPLATE - 312 BRG.- ENCL.	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
10FH4000SP	310 FAN HOUSING STAMPED	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	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
HA1005A06	SLINGER, OD 3.62, ID 2.15	1.000 EA
HW2501H36	KEY, 1/2 SQ X 4.250	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
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.070 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 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
12PA1000	PACKAGING GROUP COMBINED PRINT PK1024A06	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

AC Induction Motor Performance Data

Record # 2576 - Typical performance - not guaranteed values

Winding: 10WGX259-R001	Type: 1044M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30			Full Load Torque	89.2 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	74/37			Breakdown Torque	253 LB-FT
R.P.M.	1765			Pull-up Torque	127 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	148 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	217 A
Service Factor (S.F.)	1.15			No-load Current	14.63 A
NEMA Nom. Eff.	92.4	Power Factor	82	Line-line Res. @ 25°C	0.259 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	69°C
S.F. Amps				Temp. Rise @ S.F. Load	83°C
				Rotor inertia	3.5 LF ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	78	82	84	84	83
Efficiency	86.2	91.2	92.4	92.4	91.9	91.1	92.1
Speed	1792	1784	1776	1768	1759	1749	1763
Line amperes	17.16	22.38	29.17	37	45.6	55.1	42.1

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





