

BALDOR® • RELIANCE

Product Information Packet

CTM4104T

30HP,1760RPM,3PH,60HZ,286T,0964M,TEAO,F1

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0964M	Elec. Spec:	09WGY208	CD Diagram:	CD0005
Enclosure:	TEAO	Mfg Plant:		Mech. Spec:	09G947	Layout:	09LYG947
Frame:	286T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	10-27-2014
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1258E									
CAT.NO.	CTM4104T								
SPEC.	09G947Y208G1								
HP	30								
VOLTS	230/460								
AMP	72/36								
RPM	1760								
FRAME	286T	HZ			60	PH		3	
SER.F.	1.15	CODE			H	DES		B	CL F
NEMA-NOM-EFF	92.4	PF			84				
RATING	40C AMB-CONT								
CC		USABLE AT 208V			77.4				
DE	6311	ODE			6208				
ENCL	TEAO	SN							

Parts List		
Part Number	Description	Quantity
SA138675	SA 09G947Y208G1	1.000 EA
RA128216	RA 09G947Y208G1	1.000 EA
10CB1000A132P	SPL KOBX W/1.50 NPT LD & 2 .125 NPT DRAI	1.000 EA
HA4044A00	PLUG,PIPE 1/8 NPT PLASTIC SQUARE HEAD	2.000 EA
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 EA
10XN3118K16	5/16-18 X 1" GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
09EP1100C03P	FR ENDPLATE, MACH W/EPOXY PRIMER	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA7205	"L" SHAPE LIFTING LUG FOR 37,39 & 40 FRA	2.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
09EP1116A21E	PU ENDPLATE, MACH, EPOXY PRIMED	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 EA
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 EA
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HW4600B40	V-RING SLINGER 2.000 X 2.680 X 0.280	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
MJ5001A27	32220KN GRAY SEALER	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.023 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1182	WARNING LABEL FOR MOTORS WITH EYENUTS	2.000 EA
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MG1025G05	MEDIUM CHARCOAL METALLIC GREY	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	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
NP1258E	SS CP UL CSA CC	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

Accessories		
Part Number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 1900 - Typical performance - not guaranteed values

Winding: 09WGY208-R001	Type: 0964M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30			Full Load Torque	88.9 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	72/36			Breakdown Torque	270 LB-FT
R.P.M.	1760			Pull-up Torque	117 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	192 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	259 A
Service Factor (S.F.)	1.15			No-load Current	12.7 A
NEMA Nom. Eff.	92.4	Power Factor	84	Line-line Res. @ 25°C	0.257 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	68°C
S.F. Amps				Temp. Rise @ S.F. Load	84°C
				Rotor inertia	2.8 LF ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	84	86	86	85
Efficiency	88.9	92.7	93.2	92.8	92	90.9	92.3
Speed	1791	1782	1772	1761	1749	1736	1754
Line amperes	15	20.7	27.5	35.8	44.1	53.4	40.78

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





