

BALDOR® • RELIANCE

Product Information Packet

ZDM4103T

25HP,1770RPM,3PH,60HZ,284T,1046M,TEBC,F1

Part Detail							
Revision:	Y	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1046M	Elec. Spec:	10WGX209	CD Diagram:	CD0005
Enclosure:	TEBC	Mfg Plant:		Mech. Spec:	10F206	Layout:	10LYF206
Frame:	284T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	H	Eff. Date:	09-10-2014
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1168L									
CAT NO	ZDM4103T								
SPEC.	10F206X209Z1								
FRAME	284T	HP	25 TE						
VOLTS	230/460								
MAG CUR	22.8/11.4	FLA	60/30						
RPM	1770	RPM MAX	4000						
HZ	60	PH	3			CLASS	H		
SER.F.	1.00	DES	A			SL HZ	1		
NEMA-NOM-EFF	93.6	WK2	3.66						
BLWR V		PH				HZ		A	
RATING	40C AMB-CONT								
DE BRG	6311	ODE BRG	6309						
CC		SER.NO							

Parts List		
Part Number	Description	Quantity
SA109283	SA 10F206X209Z1	1.000 EA
RA100775	RA 10F206X209Z1	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
10EP1104A57	FR. E.P. TEBC W/THRU SHAFT ENCODER DESIG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HA1005A26	SLINGER, OD 3.00, ID 1.75, 309 BRG	1.000 EA
10XN2520K12	1/4-20 X.75 GRD 5	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 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
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
10EP1105A01	PU ENDPLATE, MACH 284-6T	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	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

Parts List (continued)		
Part Number	Description	Quantity
HA1005A04SP	SLINGER, OD 3.620, ID 1.98,	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	6.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	6.000 EA
10FH4006	310 VECTOR DR FAN HSG DUAL MTG (F1/F2	1.000 EA
HA6354A01	MTG. BRACKET 310 FRAME FAN HOUSING	4.000 EA
10XN3118K08	5/16-18 X .50 GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD4101A09	STIMPSON D3560, .875 DIA. HOLE PLUG	1.000 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
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	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
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
EF5002SP	VENTURI/GRILLE KIT FOR 310/312 TEBC MOTO	1.000 EA
33CB3002	CONDUIT BOX, CAST	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
34CB4500SP	CONDUIT BOX LID, STAMPED	1.000 EA
34GS1001	GASKET, STD CONDUIT BOX LID (LEXIDE)	1.000 EA
51XT0832A07	8-32 X .44 TYPE 23 HEX WASHER SLOTTED	4.000 EA
RM1022A02	GROMMET .875 ID 1.00 OD .12 WALL,VENDOR#	1.000 EA
51XN0832A12	8-32 HEX SLOT WSHR HD MACH SC GRADE 2, Z	2.000 EA
HW1001A08	WASHER, #8 SPLT LK, ZN	4.000 EA
XY0832A02	8-32 HEX NUT	2.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.070 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
ENC02BC-B2	ENCDR KIT TEBC W/OEHS35A09 W/BLIND SHAFT	1.000 EA
WD4101A08	STIMPSON #D3557,1.188 DIA. HOLE PLUG	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
NP1168L	ALUM VEC UL CSA CC	1.000 EA
10PA1010	PACKAGING GROUP,BRAKE MTRTDR 10086	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA

AC Induction Motor Performance Data

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AC Induction Motor Performance Data
 Record # 20727
 Typical performance - not guaranteed values

Winding: 10WGX209	Type: 1046M	Enclosure: TEFC
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection				
Rated Output (HP)	25		Full Load Torque	74.2 LB-FT			
Volts	230/460		Start Configuration	DOL			
Full Load Amps	60/30		Break Down Torque	238 LB-FT			
R.P.M.	1770		Pull-Up Torque	99.7 LB-FT			
Hz	60	Phase	Locked-rotor Torque	125 LB-FT			
NEMA Design Code	B	KVA Code	Starting Current	187.6 Amps			
Service Factor	1		No-load Current	11.43 Amps			
NEMA Nom. Eff.	93.6	P.F.	Line-line Res. @ 25°C.	0.284 Ohms			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	51°C			
S.F. Amps			Temp. Rise @ S.F. Load				

Load Characteristics at 460 Volts, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	84	86	86	
Efficiency	88.6	92.4	93.6	93.6	93.2	92.4	
Speed	1793	1785	1779	1771	1763	1755	
Line Amperes	13.34	17.65	23.3	29.63	36.5	44.2	

Baldor Electric Company Fort Smith, Arkansas



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