

BALDOR® • RELIANCE

Product Information Packet

ZDM4110T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1256M, TEBC, F1

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WG830	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12T038	Layout:	12LYT038	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	09-07-2017	Leads:	9#8		

Specs			
Catalog Number:	ZDM4110T	Heater Indicator:	No Heater
Enclosure:	TEBC	Insulation Class:	H
Frame:	324T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	H
Output @ Frequency:	40.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1256M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	UR	Power Factor:	85
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	47.000 A @ 460.0 V	Shaft Extension Location:	Pulley End

	94.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	A	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	Shaft Slinger
Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	ENCODER	Starting Method:	Direct on line
Front Face Code:	Standard	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	Normally Closed Thermostat
		Vibration Sensor Indicator:	No Vibration Sensor

Nameplate NP1168L	
CAT NO	ZDM4110T
SPEC.	12T038W830Z1
FRAME	324T HP 40 TE
VOLTS	230/460
MAG CUR	32/16 FLA 94/47
RPM	1775 RPM MAX 3900
HZ	60 PH 3 CLASS H
SER.F.	1.00 DES A SL HZ 0.8
NEMA-NOM-EFF	94.1 WK2 7.46
BLWR V	PH HZ A
RATING	40C AMB-CONT
DE BRG	6312 ODE BRG 6311
CC	010A SER.NO

Parts List		
Part Number	Description	Quantity
SA109048	SA 12T038W830Z1	1.000 EA
RA100555	RA 12T038W830Z1	1.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
12GS1000SP	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
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN5013K32	1/2-13 X 2.00" HEX HD GRD 5 (20051)	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 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
HW5100A13	W4627-047 WVY WSHER	1.000 EA
10XN3118K36	5/16-18 X 2.25" HEX HD, GRADE 5	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 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
12EP1106A01	PU ENDPLATE, MACH 324-6T	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I	4.000 EA
HA1005A06	SLINGER, OD 3.62, ID 2.15	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
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
12FH4003	312 VCTOR DR FAN HSG DUALMTG (F1/F2)	1.000 EA
HA6354A02	MTG. BRACKET 312 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
33CB3002	CONDUIT BOX, CAST	1.000 EA
34CB4500SP	CONDUIT BOX LID, STAMPED	1.000 EA
34GS1001	GASKET, STD CONDUIT BOX LID (LEXIDE)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	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
WD4101A09	STIMPSON D3560, .875 DIA. HOLE PLUG	1.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
12EP1107A55	FR ENDPLATE, W/THRU SHAFT ENCODER DESIGN	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA

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HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.200 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
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.125 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/bx) 11/14	1.000 EA
WD4101A08	STIMPSON #D3557,1.188 DIA. HOLE PLUG	1.000 EA
ENC02BC-B2	ENCDR KIT TEBC W/OEHS35A09 W/BLIND SHAFT	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1168L	ALUM VEC UL CSA CC	1.000 EA
10PA1010	PACKAGING GROUP, PRINT PK1151A06	1.000 EA

NP VOLTS	230/460	MAX SAFE RPM	3900	WYE CONN EQ.CKT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	94/47	Base Volt	460	R1	0.078	X1	0.442
HP	40HP	NL AMPS	16.0	R2	0.061	X2	0.513
BASE SPEED	1775	Slips (Hz)	0.80			XM	13.200
PHASE/HZ	3/60	WK ² (lb-ft ²)	7.46				

Rated Full Load Data


	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1776	39.9	118.0	460	60	46.4
Max Speed	2663	39.9	78.7	460	90	44.1
Min Speed	0	0.0	118.0	17.52	0.80	46.4

Load Performance at Base Speed

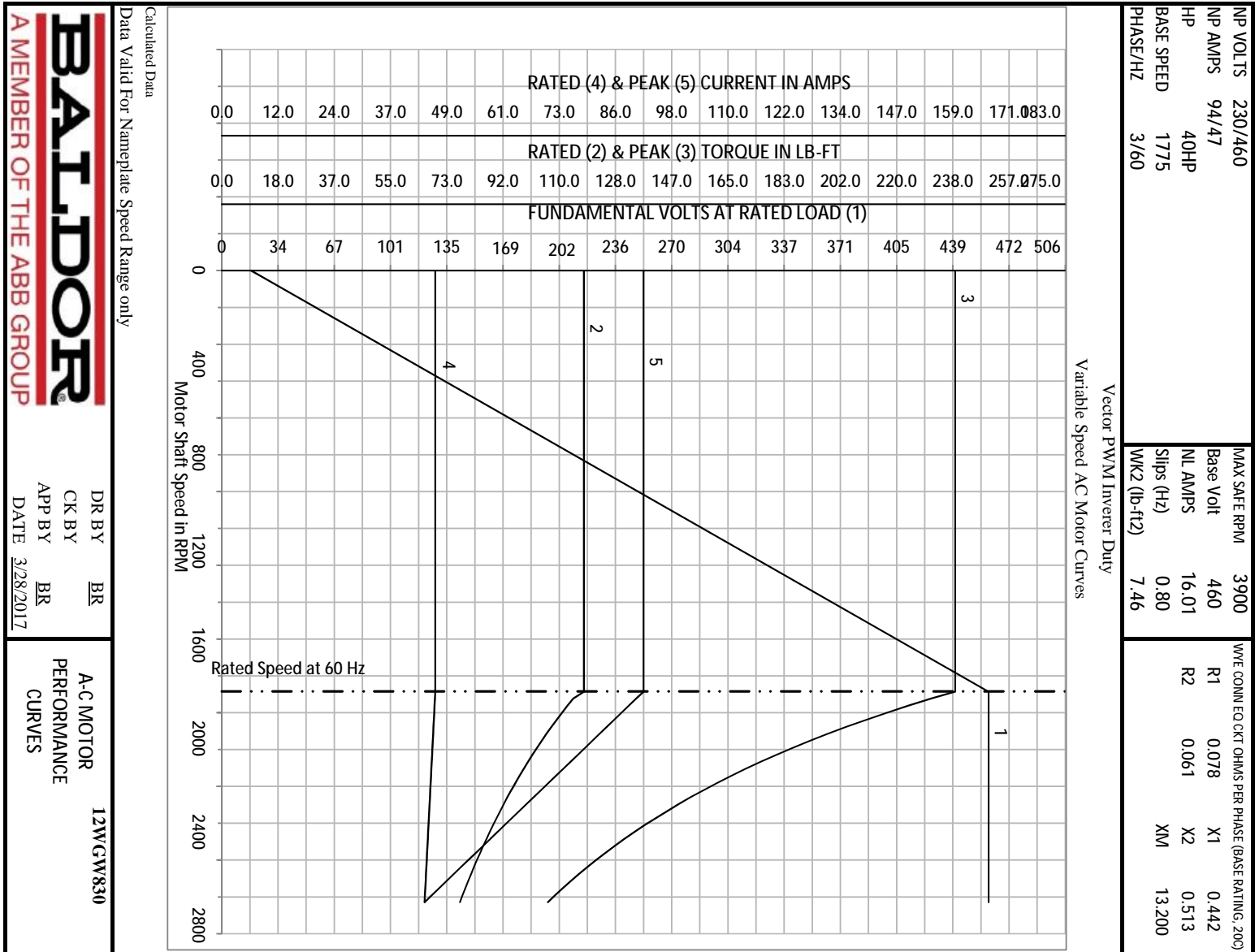
	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	16.0
1/4	1794	10.1	29.5	460	60	19.4
1/2	1788	20.1	59.0	460	60	27.0
3/4	1782	30.0	88.5	460	60	36.3
Full Load	1776	39.9	118.0	460	60	46.4
O/L	1753	79.8	239.0	460	60	91.7

Blower Data	Volts	Pn/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

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	CK BY APP BY DATE 3/28/2017	BR	

12WG830



Calculated Data
 Data Valid For Nameplate Speed Range only

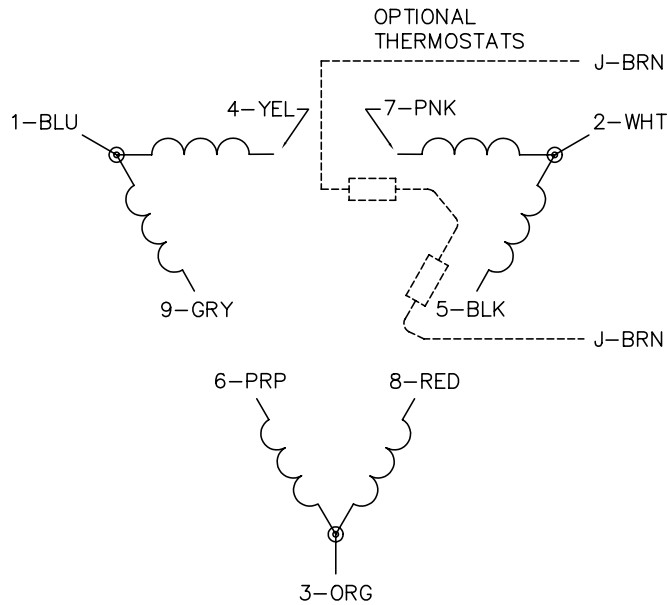
BALDOR
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DR BY BR
 CK BY BR
 APP BY BR
 DATE 3/28/2017

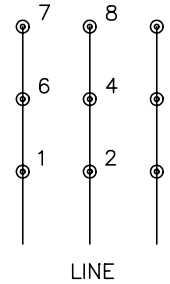
A-C MOTOR
 PERFORMANCE
 CURVES

12WG830

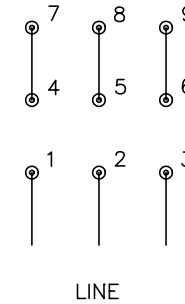
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 2:28	TDR: 0171435
0810D0		FILE: AAA00005148	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180