

ABB BALDOR RELIANCE III

Customer information packet

DMG2340

0329AT, 40KWKW, 1750RPM, 230, 230, DPFG, F2

Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	230 V
Frame	329AT
Output Power	40.000 KW
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	174.0 a
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	COMPOUND
Heater Indicator	No Heater
Insulation Class	F
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Mounting Arrangement	F2
Overall Length	38.83 IN
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Slinger Indicator	No Slinger
Thermal Device - Bearing	None

Part Detail

Revision	D
Type	DC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	K0088A
Layout	1486
Eff. date	10-03-2023
CD Diagram	
Poles	00
Leads	
Proprietary	False
Created date	11-21-2019

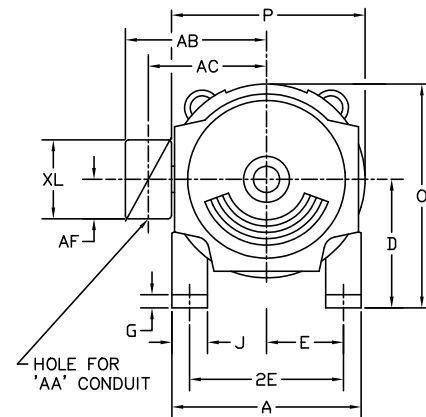
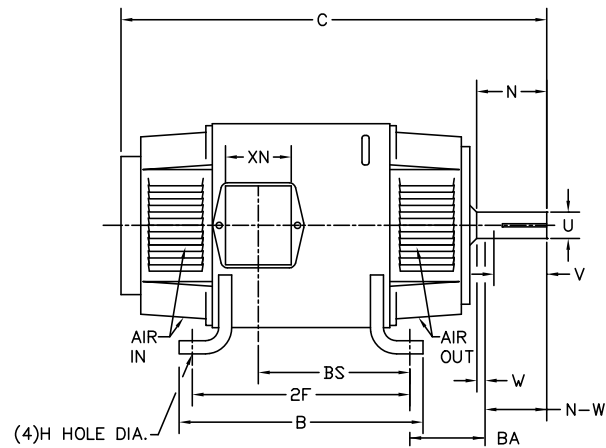
Nameplate

15405										
CAT.NO.	DMG2340		MODEL NO.		T32S8015					
KW	40KW	RPM	1750		FRAME		0329AT			
ARM VOLTS	230		ARM AMPS	174.00		WOUND		COMPOUND		
FIELD VOLTS	230		FIELD AMPS		5.67-3.70					
FIELD CONN.			OHMS	40.6		INSUL. CLASS			F	
ENCL	DPFG	DUTY		CONT		MAX AMBIENT			40	
SERVICE FACTOR	1.0									
S/N			E/S	K0088A						
	BRUSH:28610-1									
O.D.E. BRG.	6210	D.E. BRG.	6211	BRUSH		28610-1			QTY	6

Accessories

Part number	Description	Multiplier
94EP5000A02	C-FACE CONVERSION KIT FOR STOCK MTR,FR 3	

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	329	40.0HP	1750	230	174
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPG	40/F	230
POWER CODE	TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C	HOT FIELD RES
A	T	8.480	.115	5.67	62.1
ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H ₂ O)		TURNS PER COIL SHUNT/SERIES	TEST DATE
2.43	38.9	-/-		1300/2	-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN OZ.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	462	0	0	1400	0
1/4	44	0	0	1360	0
2/4	87	0	0	1319	0
3/4	131	0	0	1286	0
4/4	174	0	0	1259	0
O.L.	261	0	0	1209	0
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
3.70	1399	1258	285	280	
3.36	1484	1587	272	266	
3.02	1586	1675	254	250	
2.69	1727	1792	233	230	
2.35	1927	1950	208	208	
REMARKS: TYPICAL DATA					
		DR. BY <u>E.H. GILLOT</u> CK. BY <u>B. GRANT</u> APP. BY <u>R. ERLACHER</u> DATE <u>05-15-09</u>		D-C MOTOR PERFORMANCE DATA DK0088A ISSUE DATE 05-15-09	



1486

FOOT MOUNTING							D.E. SHAFT EXTENSION					DRIVE KEY		FRAME					
FRAME	BA	E	2F	G	H	J	N	N-W	U	V	W	KEY-SQ.	KEY-LONG	A	B	C	D	O	P
1810AT	2.75	3.75	11.00	.38	.406	1.50	2.90	2.77	1.125 ¹	2.50 ³	.13	.250	1.38	8.75	12.25	21.46	4.50 ²	9.00	9.00
219AT	3.50	4.25	11.00	.50	.406	2.00	3.00	2.75	1.375 ¹	2.50 ³	.25	.312	1.75	10.38	12.00	24.50	5.25 ²	10.47	10.44
258AT	4.25	5.00	12.50	.69	.531	2.25	3.44	3.25	1.625 ¹	3.00 ³	.19	.375	2.31	12.38	14.00	26.50	6.25 ²	12.47	12.44
259AT	4.25	5.00	14.00	.69	.531	2.25	3.44	3.25	1.625 ¹	3.00 ³	.19	.375	2.31	12.38	15.50	28.00	6.25 ²	12.47	12.44
288AT	4.75	5.50	14.00	.69	.531	2.50	3.91	3.75	1.875 ¹	3.50 ³	.16	.500	2.50	13.81	15.62	32.00	7.00 ²	13.88	13.75
328AT	5.25	6.25	16.00	.81	.656	3.00	4.40	4.25	2.125 ¹	4.00 ³	.15	.500	3.12	15.88	17.75	34.63	8.00 ²	15.94	15.88
329AT	5.25	6.25	18.00	.81	.656	3.00	4.40	4.25	2.125 ¹	4.00 ³	.15	.500	3.12	15.88	19.75	36.63	8.00 ²	15.94	15.88

CONDUIT BOX								APPROXIMATE WEIGHT
FRAME	AA	AB	AC	AF	BS	XL	XN	
1810AT	3/4NPT	INTEGRAL WITH ENDPLATE						195
219AT	3/4-1	7.91	6.44	2.44	9.38	3.81	3.12	260
258AT	1-1/4	9.35	7.72	2.94	9.75	4.94	4.00	366
259AT	1-1/4	9.35	7.72	2.94	11.25	4.94	4.00	411
288AT	1-1/4	11.88	9.25	5.00	12.64	7.88	5.25	566
328AT	2	12.94	10.32	5.00	13.68	7.88	5.25	775
329AT	2	12.94	10.32	5.00	15.68	7.88	5.25	884

- 1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 - .0005
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 - .0010
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
- 2) 'D' DIMENSION TOLERANCE +.000 - .030
- 3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 4) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 5) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

 FOR F1 OR F2 CONDUIT BOX
LOCATION SEE SALES ORDER

MATL: -

REV: C CORRECTED "A" DIMENSIONS

9871

SCALE: 0.08

BY: TBM

REVISED: 09/10/96

FILE: CHB00003091

TDR: 0104915

BALDOR ELECTRIC Co.

DIM SHEET, 1810AT THRU 329AT GENERATORS

1486