

ABB BALDOR RELIANCE III

Customer information packet

DMG2320

0288AT, 20KWKW, 1750RPM, 230, 230, DPFG, F2

Specifications

Armature Voltage	230 V
Base Speed	1750 rpm
Enclosure	DPFG
Field Voltage	230 V
Frame	288AT
Output Power	20.000 KW
Agency Approvals	CSA
Ambient Temperature	40 °C
Armature Current	87.0 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	32.00 IN
Service Factor	1.00
Shaft Diameter	1.875 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.	K0076A
Layout	1486
Eff. date	12-04-2025
CD Diagram	
Poles	00
Leads	
Proprietary	False
Created date	11-21-2019

Nameplate

15405									
CAT.NO.			MODEL NO.		T28S8007				
KW	20KW	RPM	1750		FRAME		0288AT		
ARM VOLTS	230		ARM AMPS		87.00		WOUND		STD COMPOUND
FIELD VOLTS	230		FIELD AMPS		2.93-1.80				
FIELD CONN.			OHMS	78.5		INSUL. CLASS			F
ENCL	DPFG	DUTY		CONT		MAX AMBIENT			40
SERVICE FACTOR	1.0								
S/N				E/S	K0076A				
	BRUSH:28610-1								
	IP23								
O.D.E. BRG.	6209	D.E. BRG.		6210	BRUSH		28610-1		
QTY									4

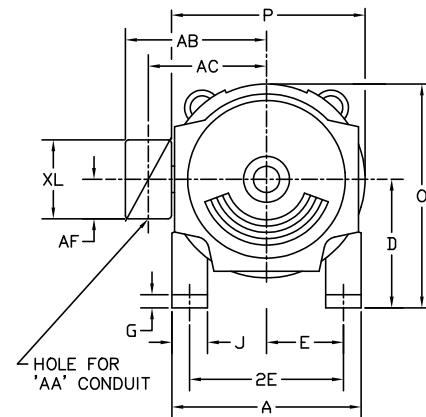
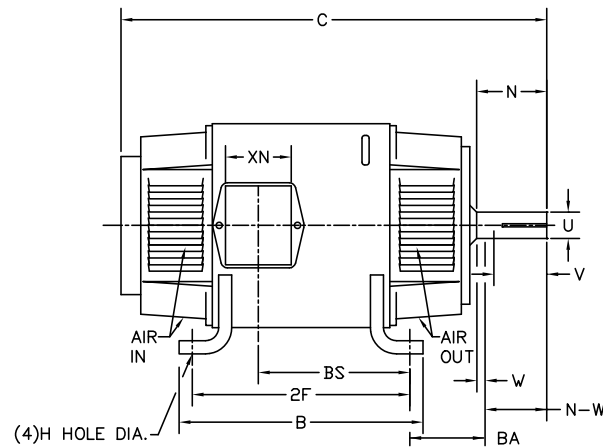
000613006SC

KG

Accessories

Part number	Description	Multiplier
93EP5000A02	C-FACE CONVERSION KIT FOR STOCK MTR,FR 2	

REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	288	20.0HP	1750	230	87.0
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DPG	40/F	CONT
POWER CODE		TYPE	WK ² (LB-FT ²)	HOT ARM.CIR.RES.	FLD. AMPS@25 °C
A		T	4.420	.244	2.93
ARM. CIR. IND. (mh)		FIELD IND. (H)	COOLING AIR (CFM/IN H ₂ O)		TEST DATE
3.10		30.7	-/-		-
LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN OZ.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	296	0	0	2571	0
1/4	22	0	0	2430	0
2/4	44	0	0	2286	0
3/4	65	0	0	2161	0
4/4	87	0	0	2058	0
O.L.	131	0	0	1892	0
RPM VS. FIELD AMPS					
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED	Eg F.L. @ BASE SPEED	
1.80	2570	2057	154	149	
2.04	2430	2336	166	166	
2.28	2312	2206	176	181	
2.52	2233	2117	186	194	
2.76	2570	2057	154	149	
REMARKS: TYPICAL DATA					
		DR. BY <u>E. GILLOT</u> CK. BY <u>B. GRANT</u> APP. BY <u>R. ERLACHER</u> DATE <u>05-06-09</u>		D-C MOTOR PERFORMANCE DATA	
				DK0076A ISSUE DATE 05-06-09	



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

1486

MATL: -			
REV:	C	CORRECTED "A" DIMENSIONS	
9871		SCALE: 0.08	BY: TBM
		FILE: CHB00003091	REVISED: 09/10/96
		TDR: 0104915	

BALDOR ELECTRIC Co.

DIM SHEET, 1810AT THRU 329AT GENERATORS