

BALDOR® • RELIANCE

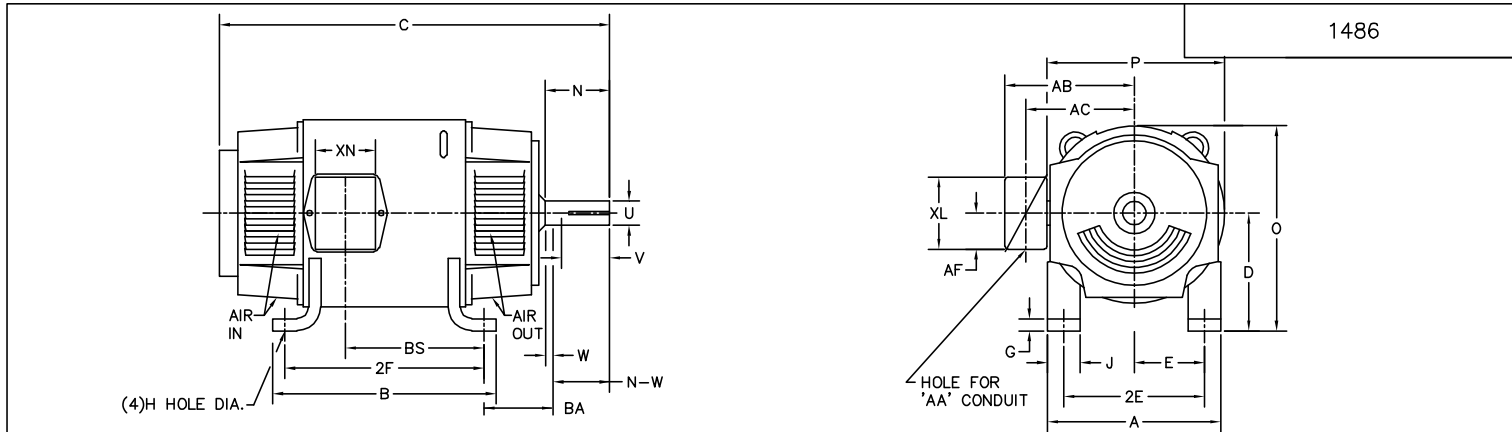
Product Information Packet

DMG2333

33KW, 1750RPM, DC, 328AT, DPFG, F2

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Part Detail			
Type:	DC	Prod. Type:	T
Power Code:	A	Weight:	840
Frame Group:		Mounting Pos.:	F2
HP:	33	Enclosure:	DPFG
RPM:	1750	Wound:	COMPOUND
Service Factor:	1.0	Arm V:	230
Arm A:	144.00	Field V:	230
Field A:	3.16	Field A Hot:	2.13-1.30/1.11-
Insulation Class:	F	Ambient:	40
Duty:	CONT	DE Bearing:	6211
ODE Bearing:	6210	Brushes:	28610-1
Brush Qty.:			



FRAME	FOOT MOUNTING							D.E. SHAFT EXTENSION					DRIVE KEY		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	8.81	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	

FRAME	CONDUIT BOX							APPROXIMATE WEIGHT
	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 - .060
- 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

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REV. "D" DIM TO +.000 -.060		
REV. LTR: E	VERSION: 02	TDR: 000000752566
FILE: \RGG\00019\528	REVISED: 03:26:56 06/20/2012	
MTL: -	BY: RGGNAS	

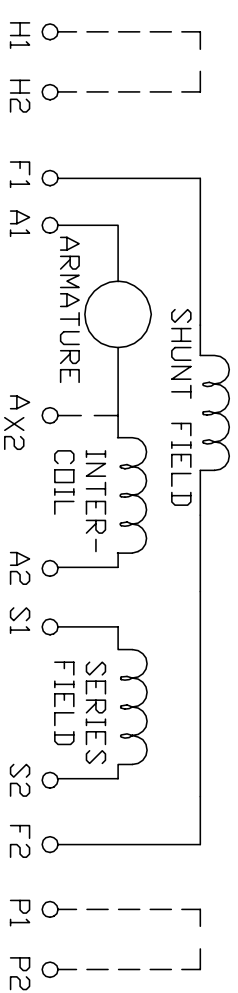
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DIM SHEET, 1810AT THRU 329AT GENERATORS

SH 1 of 1

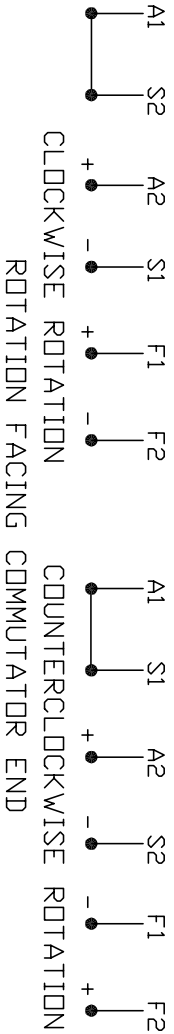
1-486

CONNECTION DIAGRAM D-C GENERATOR - COMPOUND



ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING-- SEE NOTE 7 FOR GROUNDING INSTRUCTIONS



1. **CAUTION** — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.
2. OPTIONAL CONTROL SIGNAL LEAD MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.
3. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.
4. THERMAL PROTECTOR, WHEN PROVIDED WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.
5. FIELD POLARITIES ARE SHOWN FOR CUMULATIVE EXCITATION.
6. FOR SELF-EXCITATION OF SHUNT FIELDS, CONNECT THROUGH CONTROL DEVICE TO ARMATURE LEADS OF DESIRED POLARITY.
7. **WARNING** — GENERATOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE GENERATOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT, FRAME BRACE OR OPPOSITE DRIVE END BRACKET ADJACENT TO TERMINAL BOX FOR GENERATOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER _____ RELIANCE
ORDER NO. _____ S.D. NO. _____

<p style="font-size: small; margin: 0;">RELIANCE ELECTRIC CLEVELAND, OHIO 44117 U.S.A.</p>	<p style="font-size: x-small; margin: 0;">DR. BY N.L. EVANS CHK. BY N.F. JUESCHKE APP. BY E.J. HINER DATE 5/25/69</p>
<p style="font-size: x-small; margin: 0;">CONNECTION DIAGRAM</p> <p style="font-size: large; font-weight: bold; margin: 0;">413430-1</p> <p style="font-size: x-small; margin: 0;">ISSUE DATE NOV. 1, 1978</p>	

C/R 244907, 354465

(SHEET 1 - FOR CONNECTION DIAGRAM LABEL SEE SHEET 2)


REL S.O.	FRAME	RATING	RPM	ARM. VOLTS	ARM. AMPS
	328	33.0HP	1750	230	144
WINDING TYPE		S.F.	ENCL.	AMB °C/INSUL	DUTY
STAB. SHUNT		1.0	DBG	40/F	CONT
					230
POWER CODE	TYPE	WK 2 (LB-FT ²)	HOT ARM. CIR. RES.	FLD. AMPS@25 °C	HOT FIELD RES
A	T	7.377	.126	3.16	107

ARM. CIR. IND. (mh)	FIELD IND. (H)	COOLING AIR (CFM/IN H 20)	TURNS PER COIL SHUNT/SERIES	TEST DATE
2.27	104	-/-	2000/3	-

LOAD PERFORMANCE					
LOAD	AMPERES	TORQUE IN OZ.-FT.	OUTPUT IN HP	RPM	% EFFICIENCY
NO LOAD	474	0	0	1529	0
1/4	36	0	0	1491	0
2/4	72	0	0	1451	0
3/4	108	0	0	1416	0
4/4	144	0	0	1385	0
O.L.	216	0	0	1326	0

RPM VS. FIELD AMPS		Eg VS. FIELD AMPS	
FIELD AMPS	RPM N.L.	RPM F.L.	Eg N.L. @ BASE SPEED
2.13	1529	1384	261
1.92	1570	1699	256
1.71	1637	1750	246
1.49	1751	1828	230
1.28	1931	1950	208
			Eg F.L. @ BASE SPEED
			258
			250
			239
			225
			205

REMARKS: TYPICAL DATA

	DR. BY E. H. GILLOT	D-C MOTOR PERFORMANCE DATA DK0087A ISSUE DATE 05-14-09
	CK. BY B. GRANT APP. BY R. BRANCHER DATE 05-14-09	