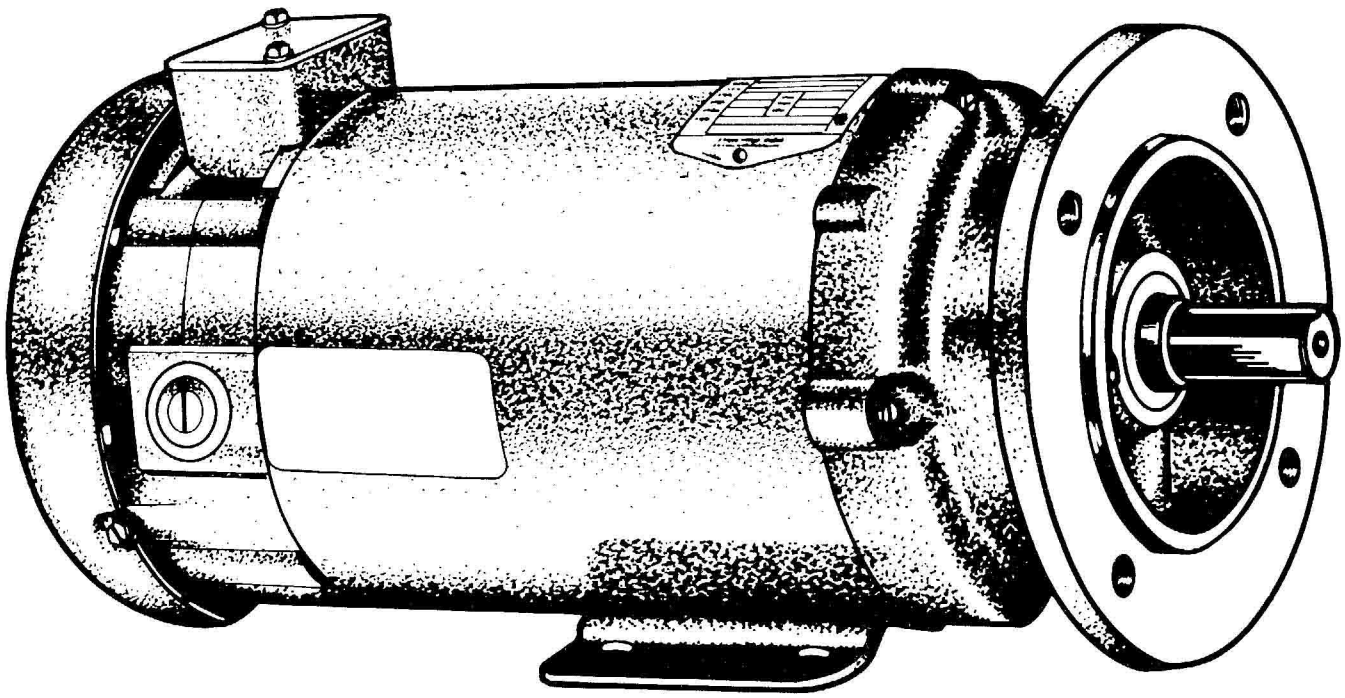
BALDOR®

CATALOG

E-104

March 1, 1991

Direct Current Motors



BALDOR®

IEC DC Permanent magnet motors for thyristor drives IP44 — B5 Flange

1/5 - 5 HP IEC Frame size D71 - D112 flange mount with removable base

Ratings with form factor		Base speed	Motor frame	Armature		Motor weight	Motor type	Motor catalog number
KW	HP	R.P.M.		Volts	Full Load Amps	Kgs		
.15	.20	1750	D63	180	1.1	5	2450P	VP7424D
.18	.25	1750	D71	180	1.4	12	3410P	VP3411D
.25	.33	1750	D71	180	1.7	12	3413P	VP3416D
.37	.50	1750	D71	180	2.5	14	3420P	VP3426D
.56	.75	1750	D80	180	3.7	20	3428P	VP3436D
.75	1.00	1750	D80	180	5	23	3435P	VP3455D
1.10	1.50	1750	D90	180	7.7	25	3536P	VP3575D
1.50	2.00	1750	D90	180	9.6	29	3548P	VP3585D
2.2	3	1750	D112	180	14	50	3649P	VP3603D
3.7	5	1750	D112	180	24.5	65	3681P	VP3605D
.25	.33	3000	D71	180	2.2	12	3413P	VP3418D
.37	.50	3000	D71	180	2.5	13	3416P	VP3428D
.56	.75	3000	D80	180	3.1	14	3420P	VP3439D
.75	1.00	3000	D80	180	5.1	16	3428P	VP3458D
1.10	1.50	3000	D90	180	8.0	19	3435P	VP3468D
1.50	2.00	3000	D90	180	11.4	33	3536P	VP3588D

Also available in other voltages - All items D71 and larger have oil seal fitted

IEC DC Shunt wound motors for thyristor drives IP44 — B5 Flange

1/4 - 3 HP IEC Frame size D71 - D132 motors

Ratings DC		Derating form factor	Ratings with form factor		Base speed R.P.M.	Motor frame	DC Voltage		Full load current		Motor weight Kgs	Motor type	Motor catalog number
KW	HP		KW	HP			Armature Volts	Field	Armature Amps	Field			
.24	.33	1.35	.18	.25	1750	D7	180	200/100	1.4	.25	11	3413D	VD3426D
.33	.44	1.35	.25	.33	1750	D71	180	200/100	1.9	.25	11	3413D	VD3434D
.49	.67	1.35	.37	.50	1750	D71	180	200/100	2.6	.25	13	3420D	VD3451D
.55	.75	1.35	.56	.75	1750	D80	180	200/100	3.0	.30	17	3428D	VD3476D
.73	1.00	1.35	.75	1.00	1750	D80	180	200/100	5.0	.30	28	3535D	VD5318D
1.08	1.46	1.35	1.10	1.50	1750	D112	180	200/100	7.8	.40	42	3636D	VD6215D
1.74	2.37	1.60	1.50	2.00	1750	D112	180	200/100	11.0	.50	48	3646D	VD6202D
2.55	3.47	1.60	2.20	3.00	1750	D132	180	200/100	14.5	.40	75	7544D	VD7503D

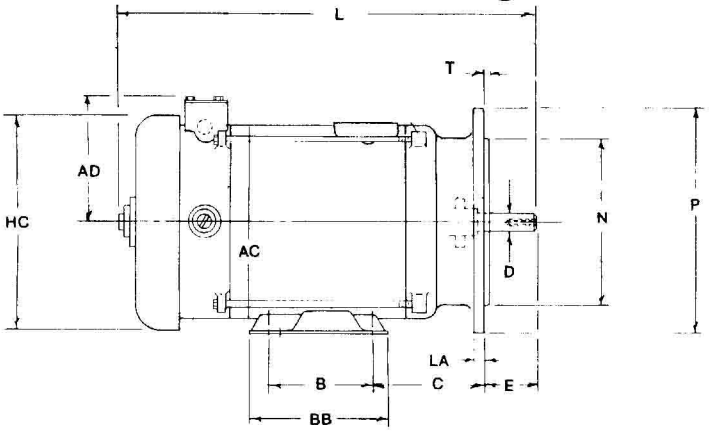
Also available in other voltages - All items D71 and larger have oil seal fitted

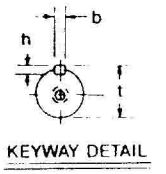
Catalog Number	Type	Motor Weight Kgs
BTG1000	30-AFL-0	2.7
PTG50XP		3
PTG100XP		3

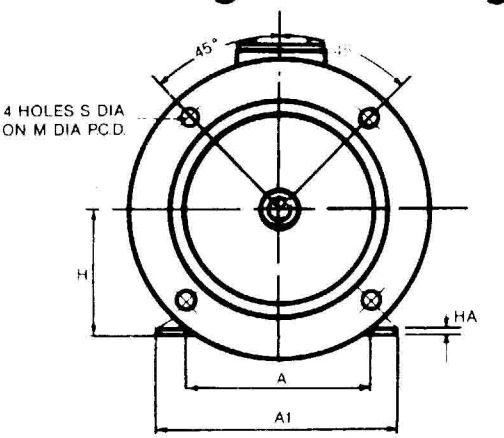
TACH GENERATOR

CHARACTERISTICS	BTG1000	PTG50XP	PTG100XP
● VOLTAGE GRANDIENT	50VDC/1000 RPM	90VDC/1000 RPM	100 VDC/1000 RPM
● MAXIMUM SPEED	5000 RPM	5000 RPM	2500 RPM
● MAXIMUM CURRENT	400 MILLIAMPS	400 MILLIAMPS	400 MILLIAMPS
● ARM. RESISTANCE	52 OHMS AT 25°C	155 OHMS AT 25°C	685 OHMS AT 25°C
● ARM. INDUCTANCE	124 MILLIHENRY'S	127 MILLIHENRY'S	610 MILLIHENRY'S
● ARM. INERTIA	1.171 Kg cm²	.761 Kg cm²	.761 Kg cm²
● MAX. TERM. VOLTAGE	250 VDC	250 VDC	250 VDC
● REVERSING ERROR	2%	2%	2%
● MECH. INTERCHANGEABLE W/GE MODEL SPY	YES	YES	YES
● RIPPLE (PEAK TO AVERAGE)	8%	1%	1%

IEC DC Permanent magnet motors (IP44) B5 Flange Mounting



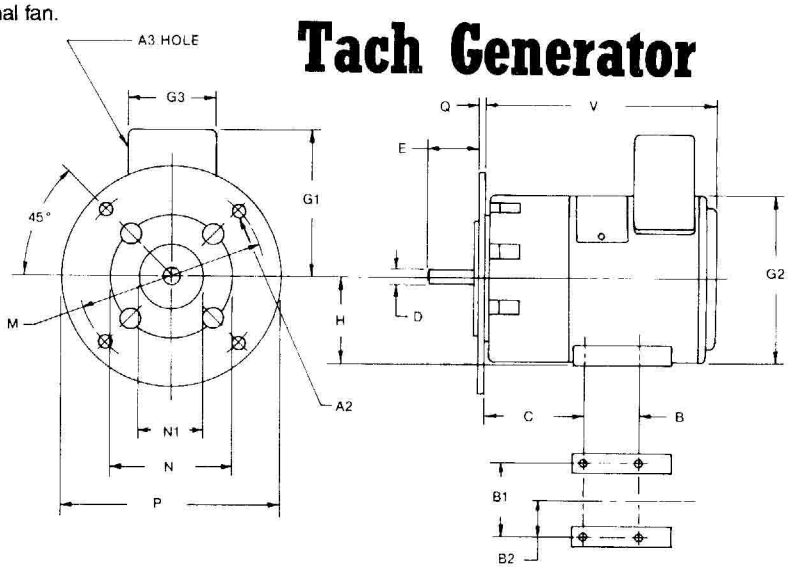




FRAME	TYPE	MOUNTING					SHAFT					FLANGE					GENERAL								
		A	B	C	H	K	D	E	b	h	t	M	N	P	S	T	AC	AB	BB	LA	L	AD	HA	HC	Z
63	24508	102	76		62		11	26	4	4	8.5	115	95	100	110	3	86			6	206				22
71	3320 *	124	76	96	89												120				320	116	5	120	
	3327 *	124	76	96	89												120				344	116	5	120	
	3336 *	124	76	96	89												120				389	116	5	120	
	3410	108	70	92	76												145				330	95	3	156	
	3413	108	70	92	76	8.7	14	30	5	5	11	130	110	160	10	3.5	145	146	101	8	330	95	3	156	22
	3416	108	70	92	76												145				330	95	3	156	
	3420	108	70	92	'76												145				368	95	3	156	
	3424	108	70	92	76												145				368	95	3	156	
80	3420		76	106													145		102		397	95		156	
	3428		76	106													145		102		397	95		156	
	2435		76	106													145		102		419	95		156	
	3520	124	76	113	89	8.7	19	40	6	5	15.5	165	130	200	12	3.5	168	165	114	12	413	105	3	183	22
	3524		76	113													168		114		413	105		183	
	3535		76	113													168		114		460	105		183	
90	3435																145		102		419	95		156	
	3536																				456				
	3541	124	76	113	89	8.7	24	50	8	7	20	165	130	200	12	3.5	158	165	114	12	462	105	3	183	22
	3548																				481				
112	3629																				496				
	3636																				496				
	3646	191	114	124	114	103	28	60	8	7	31	215	180	250	14	4	200	219	165	14	570	149	3	216	27
	3649																				580				
	3681																				681				
132	7535																				540				
	7544	126	178	110	133	107	38	80	10	8	41	265	230	300	15	4	238	241		14	569	187	3	259	27

* These motors do not have external fan.

Tach Generator



Model Number	B	B1	B2	C	D	E	G1	G2	G3	H	M	N	N1	P	Q	V	A2	A3
BTG 1000	31.75	41.3	20.6	52	7.94	25	78	98	51	43	101.6	63.5	36.5	117	5	129	7.15	22
PTG 50XP					7.94	25		83			101.6	63.5		117	7.9	157	7.15	13
PTG 100XP					7.94	25		83			101.6	63.5		117	7.9	157	7.15	13