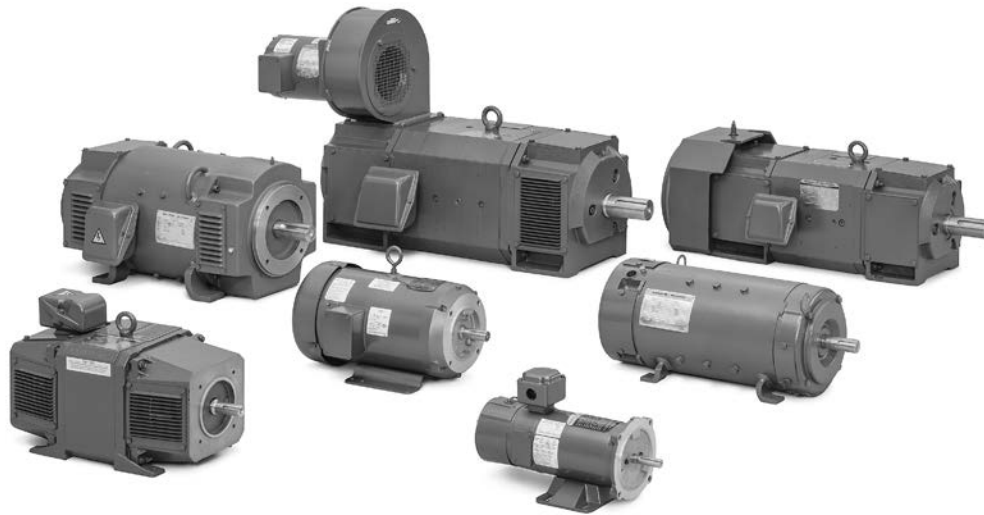


Available in round frame and unique laminated square frames, Baldor•Reliance DC motors offer performance and reliability in tough applications. Round frame DC motors utilize permanent magnet technology optimizing the commutator, brushes, and inertia to assure the best performance possible. Wound field motors are designed with superior commutation through the speed range to ensure trouble-free operation and the insulation system is designed with extra margin of safety to eliminate performance-limiting hot spots.

Key Features:

- Designed specifically for rectified DC power operation



1/50 - 500 Horsepower

Product Line – DPG-FV, TEFC, TENV, XP, SPG enclosures	Fractional DC	DC PM	SCR Round	RPM III
Frame sizes	56C - 1810ATC	56C - 1810ATC	L186ATC - 5010AT	DC189ATY - C4414ATZ
Electrical Features				
High performance molded commutator construction	-	-	-	S
Reduced VOC emission resins and paints for a green environment	S	S	S	S
Extensive full load testing to ensure delivered reliability/performance	S	S	S	S
Low rotating assembly inertia for high dynamic performance	S	S	S	S
Explosion proof products for Hazardous Duty Environments	S	S	-	S
Motors suitable for IEEE 45 shipboard applications	S	S	S	S
Wide voltage ranges – 12 volts DC to 600 volts DC	S	S	S	S
Mechanical Features				
Laminated frame construction for superior commutation performance	-	-	-	S
Skewed armature construction with no cogging at low speeds	-	-	-	S
NEMA or IEC mounting for ease interchangeability	-	-	-	S
Washdown products for food industry applications	S	S	-	-
Permanent magnet DC products with built in feedback devices	S	S	-	-
Right angle and parallel shaft gear motors	S	S	-	-
Versatile foot mounting for retrofitting non Baldor products	S	S	S	-

S = Standard

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Subfractional Permanent Magnet DC Motor, TENV, Rigid Base

1/50 thru 1/4 Hp



Features:

- Precision machines die cast aluminum or steel housings
- Dynamically balanced armature assemblies

Applications:

- Conveyors
- Material handling equipment
- Packaging machinery

Input Motor Hp	Output Base Speed	Voltage Direct Current Armature	Full Load Amperage Armature	Catalog Number	List Price	Mult. Sym.	Gear Style	Ap'x. Shpg. Wgt.	Notes (a)
1/50	1800	90	0.3	AP231001	303	DS	2308P	4	20,60
1/25	1725	90	0.5	AP232001	332	DS	2314P	5	20,60
1/15	1800	90	0.8	AP233001	357	DS	2318P	5	20,60
		180	0.4	AP233021	357	DS	2318P	5	20,60
1/8	1725	90	1.3	AP7401	499	DS	2424P	12	20,60
		180	0.7	AP7421	499	DS	2424P	12	20,60
1/4	3450	90	2.5	AP7402	499	DS	2424P	12	20,60
		180	1.3	AP7422	499	DS	2424P	12	20,60

NOTE: Supplied with type SJO, three foot 18/3 AWG grounded cord. (a) See notes on inside back flap.

SCR Drive Fractional Permanent Magnet Motor, TENV and TEFC, C-Face with Base

1/4 thru 5 Hp



Features:

- NEMA C-face with removable base
- Tachometer adaptable
- Class F insulation
- Double sealed bearings
- 20:1 constant torque speed range
- UL and CSA recognized

Applications:

- Conveyors
- Mixers
- Packaging machinery

Hp	Base Speed	NEMA Frame	Voltage D.C.	Full Load Amperage	Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Reliance M/N	Notes (a)
			Arm.	Arm.							
1/4	1750	56C	90	2.5	TENV	CDP3310	716	K	24	TK3300	20,60
			180	1.25	TENV	CDP3306	716	K	23	TK3300	20,60
1/3	1750	56C	90	3.2	TENV	CDP3320	845	K	27	TK3300	20,60
			180	1.6	TENV	CDP3316	755	K	27	TK3300	20,60
1/2	1750	56C	90	4.8	TENV	CDP3330	845	K	32	TK3300	20,60
			180	2.5	TENV	CDP3326	845	K	31	TK3300	20,60
	2500	56C	90	5	TENV	CDP3335	755	K	26	TK3300	20,60
			90	7.6	TEFC	CDP3440	1,026	K	38	TK3400	20
3/4	1750	56C	180	3.7	TEFC	CDP3436	1,026	K	38	TK3400	20
			90	7.5	TEFC	CDP3443	908	K	36	TK3400	20
1	1750	56C	90	10	TEFC	CDP3445	1,248	K	44	TK3400	20
			180	5	TEFC	CDP3455	1,248	K	44	TK3400	20
			90	9.7	TEFC	CDP3450	1,026	K	38	TK3400	20
			180	4.85	TEFC	CDP3460	1,026	K	38	TK3400	20
1 1/2	1750	145TC	180	7.7	TEFC	CDP3575	2,298	L1	65	TK3500	20
	2500	145TC	180	7	TEFC	CDP3580	2,000	L1	53	TK3500	20
2	1750	145TC	180	9.6	TEFC	CDP3585	2,742	L1	74	TK3500	20
	2500	145TC	180	10	TEFC	CDP3590	2,298	L1	66	TK3500	8
3	1750	182TC	180	14	TEFC	CDP3603	3,377	L1	112	TK3600PM	20
		182C	180	14	TEFC	CDP3604	3,358	L1	112	TK3600PM	20
5	1750	1810ATC	180	21.6	TEFC	CDP3605	5,731	L1	161	TK3600PM	20

NOTE: See Tach Generators and Mounting Kits. (a) See notes on inside back flap.

Define Purpose Motors
Unit Handling Motors
Brake Motors
IEC Frame Motors
50 Hertz Motors
Inverter/Vector Motors & Controls
DC Motors and Controls
Gearmotors and Gear Products
Motor Accessories
Grinders

Integral DC Tach Permanent Magnet SCR Drive Motor – TENV and TEFC, C-Face with Base

1/4 thru 5 Hp



Features:

- Precise speed regulation
- 50 VDC per 1,000 RPM precision tachometer
- Class F insulation
- 20:1 constant torque speed range with NEMA Type K control

Applications:

- Conveyors
- Metering pumps

Hp	Base Speed	NEMA Frame	Voltage D.C.		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.						
1/4	1750	56C	90	2.5	TENV	CDPT3310	2,044	K	27	20,60
			180	1.25	TENV	CDPT3306	2,044	K	27	20,60
1/3	1750	56C	90	3.2	TENV	CDPT3320	2,085	K	30	20,60
			180	1.6	TENV	CDPT3316	2,085	K	30	20,60
1/2	1750	56C	90	4.8	TENV	CDPT3330	2,085	K	35	20,60
			180	2.5	TENV	CDPT3326	2,216	K	36	20,60
3/4	1750	56C	90	7.6	TEFC	CDPT3440	2,344	K	44	20
			180	3.7	TEFC	CDPT3436	2,344	K	45	20
1	1750	56C	90	10	TEFC	CDPT3445	2,615	K	50	20
			180	5	TEFC	CDPT3455	2,615	K	50	20
1 1/2	1750	143TC	180	7.7	TEFC	CDPT3575	3,629	L1	71	20
2	1750	143TC	180	9.6	TEFC	CDPT3585	4,072	L1	79	20
3	1750	182ATC	180	14	TEFC	CDPT3603	4,736	L1	122	20
5	1750	1810ATC	180	24.5	TEFC	CDPT3605	7,085	L1	164	20

(a) See notes on inside back flap.

Explosion Proof Permanent Magnet SCR Drive Motor – TEFC, C-Face with Base

1/4 thru 1 1/2 Hp



Features:

- NEMA C-face with welded base
- 20:1 constant torque speed range
- UL and CSA
- Division 1, Class I, Group D; Class II, Group F&G, T3C
- Thermostat and explosion proof conduit box included
- Adjustable speed and constant torque for hazardous locations

Applications:

- Conveyors
- Feeders
- Pumps

Hp	Base Speed	NEMA Frame	Voltage D.C.		Catalog Number	XP Cls/Grp	Temp Code	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.							
1/4	1750	56C	90	2.7	CDPX3410	②	T3C	1,965	K	38	20
			180	1.3	CDPX3406	②	T3C	1,965	K	38	20
1/3	1750	56C	90	3.6	CDPX3420	②	T3C	2,468	K	43	20
			180	1.7	CDPX3416	②	T3C	2,468	K	44	20
1/2	1750	56C	90	5.2	CDPX3430	②	T3C	2,787	K	46	20
			180	2.5	CDPX3426	②	T3C	2,787	K	46	20
3/4	1750	56C	90	7	CDPX3440	②	T3C	3,445	K	51	20
			180	3.5	CDPX3436	②	T3C	3,445	K	51	20
1	1750	56C	90	9.6	CDPX3545	②	T3C	4,588	K	73	20
			180	4.9	CDPX3555	②	T3C	4,588	K	71	20
1 1/2	1750	145TC	180	7.1	CDPX3575	②	T3C	4,904	L1	81	20

NOTE: ② Class I, Group D; Class II, Group F&G

CAUTION: Explosion-proof motors have a tight fit between mating parts to ensure the integrity of the explosion-proof enclosure. This can lead to an accumulation of moisture inside the motors due to condensation. Care should be used when selecting an explosion-proof motor, especially when installed outdoors and on intermittent duty.

Washdown Duty Permanent Magnet SCR Drive Motor – TENV and TEFC, C-Face with Base

1/4 thru 5 Hp



Features:

- Moisture sealant on bolt heads between frame and endplates
- Neoprene gasketed conduit box
- Double sealed bearings
- Forsheda® running contact V-Ring slinger
- Stainless steel shaft
- Class F Insulation
- Tachometer adaptable
- Suitable for high pressure washdown

Applications:

- Food processing conveyors
- Feeders

Hp	Base Speed	NEMA Frame	Voltage D.C.	Full Load Amperage	Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.						
1/4	1750	56C	90	2.5	TENV	GDPWD3310	927	K	25	20,60
			180	1.25	TENV	GDPWD3306	927	K	24	20,60
1/3	1750	56C	90	3.2	TENV	GDPWD3320	979	K	27	20,60
			180	1.6	TENV	GDPWD3316	979	K	27	20,60
1/2	1750	56C	90	4.8	TENV	GDPWD3330	1,101	K	32	20,60
			180	2.5	TENV	GDPWD3326	1,101	K	32	20,60
3/4	1750	56C	90	7.6	TEFC	GDPWD3440	1,328	K	38	20
			180	3.7	TEFC	GDPWD3436	1,328	K	38	20
1	1750	56C	90	10	TEFC	GDPWD3445	1,620	K	44	20
			180	5	TEFC	GDPWD3455	1,620	K	44	20
1 1/2	1750	145TC	180	7.7	TEFC	GDPWD3575	3,099	L1	66	20
2	1750	145TC	180	9.6	TEFC	GDPWD3585	2,698	L1	75	20
3	1750	182TC	180	14	TEFC	GDPWD3603	4,733	L1	116	20
5	1750	1810ATC	180	24.5	TEFC	GDPWD3605	8,017	L1	157	20

NOTE: See Tach Generators and Mounting kits.

(a) See notes on inside back flap.

Paint Free Washdown Duty Permanent Magnet SCR Drive Motor, TEFC, C-Face with Base

1/4 thru 1 Hp



Features:

- Class F insulation
- 20:1 constant torque speed range
- Moisture resistant 200°C magnet wire
- Sealed ball bearings with moisture resistant grease
- Contact lip seals on shaft extensions
- Neoprene gaskets
- 300 series stainless steel motor frame, base, shaft and hardware

Applications:

- Food processing
- Packaging

Hp	Base Speed	NEMA Frame	Voltage D.C.	Full Load Amperage	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.					
1/4	1750	56C	90	2.7	CDPSWD3410	1,110	K	29	20
			180	1.3	CDPSWD3406	1,110	K	28	20
1/2	1750	56C	90	5.2	CDPSWD3430	1,315	K	37	20
			180	2.5	CDPSWD3426	1,315	K	38	20
1	1750	56C	90	9.6	CDPSWD3545	1,943	K	63	20
			180	4.9	CDPSWD3555	1,943	K	63	20

(a) See notes on inside back flap.

Metric Flange Permanent Magnet SCR Drive Motor, TENV and TEFC, Flange and Face Mount

0.15 thru 5 kW
0.2 thru 3.7 Hp



Features:

- Metric Flange or C-face per IEC 60072-1 standards
- Bolt on non-metric base
- Class F insulation
- Tachometer adaptable (except 0.15 kW)
- 20:1 constant torque speed range
- Conforms to IEC 30034-1

Applications:

- Metric SCR drive motor replacement

kW/Hp	Base Speed	NEMA Frame	Voltage D.C.		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.						
B5 Flange										
.15/.20	1800	D63D	180	1.1	TENV	VP7424D	500	DS	10	60
.18/.25	1750	D71D	180	1.25	TENV	VP3311D	716	K	23	20,60
.25/.33	1750	D71D	180	1.6	TENV	VP3316D	755	K	27	20,60
.37/.5	1750	D71D	180	2.5	TENV	VP3326D	845	K	31	20,60
	3000	D71D	180	2.5	TEFC	VP3428D	876	K	33	20
.57/.75	1750	D80D	180	3.7	TEFC	VP3436D	1,026	K	40	20
	3000	D80D	180	3.6	TEFC	VP3439D	908	K	37	20
.75/1	1750	D80D	180	5	TEFC	VP3455D	1,248	K	46	20
	3000	D80D	180	5.1	TEFC	VP3458D	1,026	K	41	20
1.1/1.5	3000	D90D	180	7.7	TEFC	VP3468D	1,144	L1	47	20
	1750	D90D	180	7.7	TEFC	VP3575D	2,312	L1	71	20
1.5/2	1750	D90D	180	9.6	TEFC	VP3585D	2,758	L1	78	20
	3000	D90D	180	10	TEFC	VP3588D	2,312	L1	69	20
2.2/3	1750	D112D	180	14	TEFC	VP3603D	3,393	L1	121	20
3.7/5	1750	D112D	180	24.5	TEFC	VP3605D	5,592	L1	166	20
B14 Face										
.15/.20	1800	D63D	180	1.1	TENV	VP7424-14	500	DS	10	60
.18/.25	1750	D71C	180	1.4	TEFC	VP3411-14	805	K	30	20
.25/.33	1750	D71C	180	1.7	TEFC	VP3416-14	857	K	31	20
1.37/1.50	3000	D71C	180	2.5	TEFC	VP3428-14	876	K	31	20
	1750	D71C	180	2.5	TEFC	VP3426-14	876	K	37	20
.56/.75	3000	D80C	180	3.6	TEFC	VP3439-14	908	K	35	20
	1750	D80C	180	3.7	TEFC	VP3436-14	1,026	K	40	20
.75/1	3000	D80C	180	5.1	TEFC	VP3458-14	1,026	K	38	20
	1750	D80C	180	5	TEFC	VP3455-14	1,248	K	45	20
1.1/1.5	3000	D80C	180	7.7	TEFC	VP3468-14	1,114	L1	43	20
	1750	D90C	180	7.7	TEFC	VP3575-14	2,312	L1	73	20
1.5/2	3000	D90C	180	10.0	TEFC	VP3588-14	2,312	L1	70	20
	1750	D90C	180	9.6	TEFC	VP3585-14	2,758	L1	80	20

NOTES:

Above motors D71 and larger with B5 flange, fitted with oil seal. Catalog numbers VP7424D and VP7424-14 are not tach adaptable. See Tach Generators and Tach Mounting Kits.

(a) See notes on inside back flap.

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Low Voltage Permanent Magnet Motor – TENV and TEFC

1/4 thru 1 Hp



Features:

- NEMA C-face
- Class F insulation
- Double sealed ball bearings
- Top-mounted terminal studs for power connection on ratings 40-amps and up

Applications:

- Battery operation for portable pumps
- Fans
- Augers
- Winches
- Lifts

Hp	Base Speed	NEMA Frame	Voltage D.C.	Full Load Amperage	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
1/4	1800	56C	12	22.5	CDP3410-V12	770	K	23	20,60
			24	10.6	CDP3410-V24	730	K	23	20,60
1/3	1800	56C	12	28.6	CDP3420-V12	845	K	31	20,60
			24	13.6	CDP3420-V24	806	K	31	20,60
1/2	1800	56C	12	40	CDP3430-V12	876	K	37	20,60
			24	19.6	CDP3430-V24	835	K	35	20,60
3/4	1800	56C	12	66	CDP3440-V12	1,257	K	42	20
		56C	24	29.4	CDP3440-V24	871	K	41	20
1	1800	56C	12	85.6	CDP3445-V12	1,818	K	45	20
			24	40.9	CDP3445-V24	1,810	K	46	20

(a) See notes on inside back flap.
1/4 - 1/2 Hp are TENV. 3/4 - 1 Hp are TEFC.

DC Power Motor – TEFC, Rigid Base

1/3 thru 1 1/2 Hp



Features:

- 20% compound wound
- Weather proof, VPI insulation meets IEEE 45 specifications
- Suitable for mounting in any position
- Continuous duty
- Easy access brushes
- Powered from generators or batteries

Applications:

- Cranes and hoists
- Conveyors
- Augers
- Marine Duty application

Hp	Speed	NEMA Frame	Rated Current	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
115 VDC								
1/3	1750	56	3.2	D1151	1,708	K	23	20
1/2	1750	56	4.8	D1152	1,755	K	29	20
3/4	1750	56	6.6	D1153	2,066	K	34	20
1	1750	56	8	D1154	2,375	K	62	20
230 VDC								
1/3	1750	56	1.7	D2301	1,708	K	41	20
1/2	1750	56	2.1	D2302	1,808	K	29	20
3/4	1750	56	3.3	D2303	2,066	K	34	20
1	1750	56	4	D2304	2,375	K	62	20
1 1/2	1750	184	6.1	D2305	4,039	L1	84	20

NOTES: Not for SCR control applications. Base welded on 3513D type only. Not tach adaptable.
(a) See notes on inside back flap.

Shunt Wound SCR Drive Motors, TEFC, C-Face with Base

1/4 thru 3 Hp



Features:

- Designed for use with NEMA type K SCR control
- 20:1 constant torque speed range
- NEMA C-face and removable base
- NEMA 182 frame and larger – normally closed thermostat on field winding
- Class F insulation
- 1.0 SF

Applications:

- Conveyors
- Printing and textile equipment
- Machine tools

Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Field	Arm.	Field					
1/4	1750	56C	90	100/50	3	.3/6	CD3425	720	K	23	20
			90	100/50	3.4	.4/8	CD3433	787	K	24	20
1/3	1750	56C	180	200/100	1.9	.21/42	CD3434	787	K	24	20
			90	100/50	3.7	.5/1	CD5333 (b)(c)	1,135	K	31	20
1/2	1750	56C	90	100/50	5.2	.5/1	CD3450	895	K	29	20
			180	200/100	2.6	.25/5	CD3451	895	K	29	20
			90	100/50	5	.44/88	CD5350 (c)	1,253	K	38	20
3/4	1750	56C	90	100/50	7.8	.6/1.2	CD3475	1,113	K	34	20
			180	200/100	3.9	.3/6	CD3476	1,113	K	34	20
			90	100/50	8	.6/1.2	CD5375 (c)	1,475	K	45	20
1	1750	56C	180	200/100	5	.3/6	CD5318 (c)	1,571	K	54	20
			90	100/50	10	.6/1.2	CD5319 (c)	1,571	K	53	20
		182C	180	200/100	5	.25/5	CD6218	2,099	L1	65	20
			90	100/50	9.6	.55/1.1	CD6219	2,099	L1	66	20
1 1/2	1750	182C	180	200/100	7.5	.25/5	CD6215	2,350	L1	84	20
2	1750	182C	180	200/100	9.5	.4/8	CD6202	2,779	L1	98	20
		213C	180	200/100	9.5	.4/8	CD7502	4,877	L1	105	20
3	1750	184TC	180	200/100	14.7	.6/1.2	CD6203	3,156	L1	135	8, 73
		215C	180	200/100	14.7	.6/1.2	CD7503	5,187	L1	137	20

NOTES: See Tach Generators and Mounting Kits.

(a) See notes on inside back flap. (b) Base welded on type 3513D only. (c) No dual mounting base holes on 35D, 75D or 91D type.

Shunt Wound SCR Drive Motors, Explosion Proof, TEFC, C-Face with Base

1/2 thru 2 Hp



Features:

- Designed for use with NEMA type K SCR control
- 20:1 constant torque speed range
- NEMA C-face and removable base
- Normally closed thermostat on field winding
- Class F insulation
- 1.0 SF
- UL and CSA Division 1, Class I, Group D, Class II, Group F&G

Applications:

- Conveyors
- Printing and textile equipment

Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	XP Cls/Grp	Temp Code	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Field	Arm.	Field							
Explosion-Proof - Continuous Duty - Division 1, Class I, Group D & Class II, Group F & G - 1.0 S.F.													
1/2	1750	182CZ	90	100/50	4.9	.55/1.1	CDX1850 (b)	②	T3B	2,852	L1	100	2
3/4	1750	182CZ	90	100/50	7	.55/1.1	CDX1875 (b)	②	T3B	3,776	L1	100	2
1	1750	182CZ	180	200/100	5	.25/5	CDX2001 (b)	②	T3B	4,697	L1	102	2
		182C	180	200/100	5	.25/5	CDX7100	②	T3B	3,899	L1	102	2
1 1/2	1750	182C	180	200/100	7.5	.25/5	CDX7150	②	T3B	5,163	L1	121	2
2	1750	182C	180	200/100	9.5	.4/8	CDX7200 (b)	②	T3B	5,798	L1	135	2

NOTES: (a) See notes on inside back flap.

(b) Refers to shaft and/or face mounting dimensions only. Base mounting dimensions and shaft height differ from NEMA frames shown. Go to www.baldor.com for details.

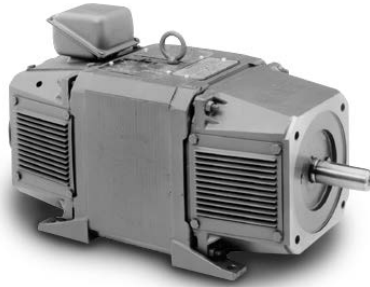
② Class I, Group D; Class II, Group F&G

CAUTION: Explosion-proof motors have a tight fit between mating parts to ensure the integrity of the explosion-proof enclosure. This can lead to an accumulation of moisture inside the motors due to condensation. Care should be used when selecting an explosion-proof motor, especially when installed outdoors and on intermittent duty.

For more information visit baldor.com

**RPM III DC Shunt Wound SCR Drive Motors,
180V Armature Power Code K**

1.5 thru 5 Hp



Features:

- Unique laminated square frame for improved commutation
- Square configuration allows for increased rating per frame size
- Class F insulation system
- Service line brushes with convenient wear indicating reference lines
- PLS™ for longer bearing and motor life
- F3 Mounting
- Tachometer adaptable with thermostat

Applications:

- Metals
- Paper
- Web Processes
- Extruders and packaging
- Machine tools

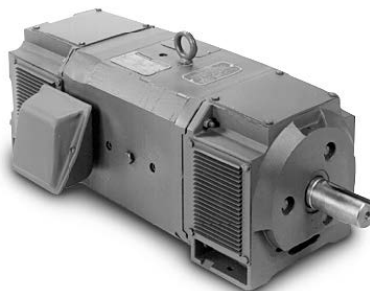
Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
1 1/2	1750	DC189ATY (c)	180	100/200	7.2	0.72	TENV	D1815R	6,040	N2	169	T18R1119	STR	413336-1R
2	1750	DC189ATY (c)	180	100/200	9.5	0.72	TENV	D1802R	6,040	N2	86	T18R1117	STR	413336-1R
3	1750	DC1811ATCZ (d)	180	100/200	14.1	1.17	TENV	CD1803R	9,906	N2	212	T18R1102	STR	413336-1R
		DC189ATY (c)(e)	180	100/200	14.8	0.95	DPG	D1803R	6,040	N2	165	T18R1118	STR	413336-1R
		DC189ATCZ (d)(e)	180	100/200	14.8	0.95	DPG	CDD1803R	6,040	N2	160	T18R1120	STR	413336-1R
5	1750	DC1810ATCZ (d)(e)	180	100/200	24	1.68	DPG	CD1805R	7,266	N2	175	T18R1105	STR	413336-1R
		DC2112ATCZ (d)	180	100/200	23	1.34	TENV	CD2105R	14,534	N2	355	T21S1101	STR	413336-1R

NOTES: Encoder and tachometer kits available.

- (a) Field amps at 25°C
- (b) Field amps for high voltage connection
- (c) 140TC C-face
- (d) 180TC C-face
- (e) Top mounted conduit box, if blower added, blower must be mounted F-1 or F-2.

**RPM III DC Shunt Wound SCR Drive Motors,
240V Armature 240V Field, Power Code C**

3 thru 10 Hp



Features:

- Superior speed regulation
- Operation down to 25% of base speed at 67% load current
- Excellent load sharing characteristics on common drive
- Tachometer adaptable

Applications:

- Textile equipment
- Metals
- Paper
- Web Processes
- Extruders and packaging
- Machine tools

Hp	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Enclosure *	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)								
3	1750/2300	C1811ATCZ (b)	240	240	11	0.99	SPG	CD2003R-2	11,067	N2	198	T18R1009	STAB	413336-1R
5	1750/2300	C1811ATCZ (b)	240	240	18.1	1.11	SPG	CD2005R-2	11,067	N2	209	T18R1010	STAB	413336-1R
7 1/2	1750/2300	C1812ATCZ (b)	240	240	27	1.4	SPG	CD2007R-2	12,042	N2	235	T18R1011	STAB	413336-1R
10	1750/2300	SC2113ATCZ (c)	240	240	37	2.20	SPG	D2010R-2	16,661	N2	346	T21S1001	STAB	417708-21

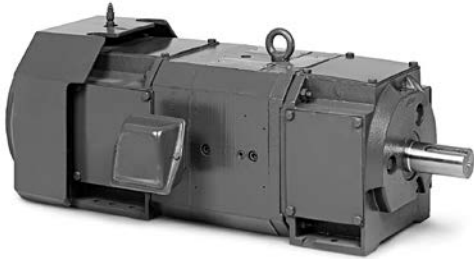
NOTES: Encoder and tachometer kits available.

- (a) Field amps at 25°C
- (b) 180TC C-face
- (c) 210TC C-face

Splash-proof Guarded (SPG) is an open machine in which the ventilating openings are so constructed that successful operation is not interfered with when drops of liquid or solid particles strike or enter the enclosure at any angle not greater than 60 degrees downward from vertical

RPM III DC Shunt Wound SCR Drive TEFC Motors, 240V & 500V Armature, Power Code C

5 thru 50 Hp



Features:

- Laminated square frame for improved commutation
- Class F insulation system
- Service line brushes with convenient wear indicating reference lines
- PLS™ bearing lubrication system for longer bearing and motor life
- Tachometer adaptable with thermostat

Applications:

- Textile range drives
- Roofing machines
- Tube mills

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
5	1750/2300	C1812ATZ	240	150	18.5	1.80	D2505R	13,081	N2	251	87	T18R1005 (d)	STAB	417709-17
		SC2113ATZ	500	150/300	9	1.06	D5505R	15,311	N2	340	87	T21S201 (c)	STAB	417708-21
7 1/2	1750/2300	SC2113ATZ	240	150	27	3.25	D2507R	17,059	N2	359	87	T21S301	STAB	417709-65
		SC2113ATZ	500	150/300	13.5	1.41	D5507R	17,059	N2	360	87	T21S302 (d)	STAB	417709-65
10	1750/2300	MC2113ATZ	240	150	35.5	3.13	D2510R	18,820	N2	379	87	T21S303	STAB	417709-65
		MC2113ATZ	500	150/300	17.5	1.55	D5510R	18,820	N2	405	87	T21S304	STAB	417709-65
15	1750/2300	SC2512ATZ	240	150	53.5	2.18	D2515R	28,213	N2	560	6,87	T25S301	STAB	417709-66
		SC2512ATZ	500	150/300	25.6	1.71	D5515R	28,213	N2	547	87	T25S302	STAB	417709-66
20	1750/2300	LC2512ATZ	240	150	71	4.14	D2520R	30,464	N2	640	87	T25S303	STAB	417709-66
		LC2512ATZ	500	150/300	33	2.06	D5520R	30,464	N2	640	87	T25S304	STAB	417709-66
25	1750/2300	MC2812ATZ	240	150	87	4.05	D2525R	43,228	N2	805	87	T28S301	STAB	417709-67
		MC2812ATZ	500	150/300	41	2.23	D5525R	43,228	N2	815	87	T28S302	STAB	417709-67
30	1750/2300	LC2812ATZ	500	150/300	50	1.74	D5530R	48,066	N2	895	87	T28S303	STAB	417709-67
40	1750/2300	MC3212ATZ	500	150/300	65	1.82	D5540R	65,449	N2	1120	87	T32S301	STAB	417709-68
50	1750/2300	LC3212ATZ	500	150/300	84	1.98	D5550R	69,186	N2	1270	87	T32S302	STAB	417709-68

NOTES: Encoder and tachometer available.

(a) Field amps at 25°C

(b) Field amps for high voltage connection

(c) TENV enclosure

(d) Power Code D

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

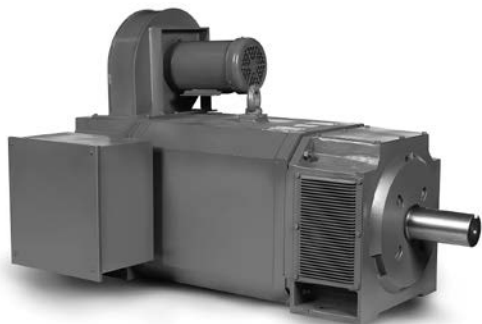
Gearmotors and Gear Products

Motor Accessories

Grinders

**RPM III Wound Field SCR Drive DPG-FV Motors,
240V & 500V Armature, Power Code C**

10 thru 500 Hp



Features:

- Laminated square frame for improved commutation
- Class F insulation system
- Service line brushes with convenient wear indicating reference lines
- PLS™ bearing lubrication system for longer bearing and motor life
- Tachometer adaptable with thermostat

Applications:

- Metals
- Paper
- Web Processes
- Extruders and packaging
- Machine tools

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
10	1750/2300	SC2113ATZ	500	300	18	1.11	D5010RS-BV	19,133	N2	345 (c)	101,102	T21T1342	STAB	417708-21
15	1750/2300	SC2113ATZ	240	150	56	4.73	D2015R-BV	16,556	N2	345 (d)	103	T21T1359	STR	417708-21
		SC2113ATCZ	240	150	56	4.73	CD2015R-BV	17,153	N2	345 (b)	103	T21T1384	STR	417708-21
		SC2113ATZ	500	300	27	2.22	D5015R-BV	16,556	N2	375	103	T21T1364	STR	417708-21
		SC2113ATZ	500	300	27	3.03	D5015RS-BV	19,133	N2	345 (c)	101,102	T21T1346	STAB	417708-21
20	1750/2300	SC2113ATZ	240	150	76.5	7.12	D2020R-BV	16,556	N2	345 (d)	103	T21T1363	STR	417708-21
		SC2113ATZ	500	300	37	3.03	D5020R-BV	16,556	N2	390	103	T21T1350	STR	417708-21
25	1750/2300	MC2113ATZ	500	300	37	2.24	D5020RS-BV	20,894	N2	370 (c)	101,102	T21T1344	STAB	417708-21
		MC2113ATZ	240	150	96	8.43	D2025R-BV	18,317	N2	370 (d)	103	T21T1371	STR	417708-21
		MC2113ATZ	500	300	46	3.32	D5025R-BV	18,317	N2	410	6,104	T21T1351	STR	417708-21
30	1750/2300	LC2113ATZ	500	300	43	3.07	D5025RS-BV	22,483	N2	472 (c)	101,102	T21T1345	STAB	417708-21
		LC2113ATZ	240	150	109	10	D2030R-BV	19,905	N2	400	103	T21T1375	STR	417708-21
		LC2113ATZ	500	300	52	3.3	D5030R-BV	19,905	N2	445	103	T21T1352	STR	417708-21
		SC2512ATZ	500	300	51	2.84	D5030RS-BV	30,609	N2	535 (c)	101,102	T25T1342	STAB	417708-21
40	1750/2300	LC2115ATZ	500	300	54	3.95	D5130R-BV	26,587	N2	480	104	T21T1378	STR	417708-21
		LC2115ATZ	240	150	146	5.63	D2040R-BV	26,587	N2	480	6,103	T21T1380	STR	417708-21
		MC2115ATZ	500	300	69	4.49	D5040R-BV	23,683	N2	501	103	T21T2353	STR	417708-21
50	1750/2100	MC2512ATZ	500	300	68.5	2.88	D5040RS-BV	31,738	N2	570 (c)	6,101,102	T25T1344	STAB	417708-21
		LC2512ATZ	500	300	72	5.27	D5140R-BV	29,962	N2	640	104	T25T1355	STR	417708-21
		LC2115ATZ	500	300	87	3.95	D5050R-BV	26,587	N2	520	103	T21T2354	STR	417708-21
		LC2512ATZ	500	300	84	3.38	D5050RS-BV	32,860	N2	660 (c)	6,101,102	T25T1339	STAB	417708-21
60	1750/2300	C2514ATZ	500	300	87	4.06	D5150R-BV	34,634	N2	695	6,104	T25T1359	STR	417708-21
		LC2512ATZ	500	300	102	4.61	D5060R-BV	29,962	N2	610	103	T25T2348	STR	417708-21
		MC2812ATZ	500	300	100	3.43	D5060RS-BV	45,623	N2	860 (c)	6,101,102	T28T1330	STAB	417708-26
75	1750/2100	C2515ATZ	500	300	102	5.18	D5160R-BV	39,995	N2	805	6,103	T25T1364	STR	417708-21
		C2514ATZ	500	300	124	6.21	D5075R-BV	34,634	N2	767	103	T25T2349	STR	417708-21
		LC2812ATZ	500	300	124	3.63	D5075RS-BV	50,462	N2	885 (c)	6,101,102	T28T1327	STAB	417708-26
100	1750/2000	C2815ATZ	500	300	125	4.15	D5175R-BV	56,918	N2	1125	6,103	T28T1342	STR	417708-26
		C2515ATZ	500	300	167	6.7	D50100R-BV	39,995	N2	890	103	T25T2350	STR	417708-21
		MC3212ATZ	500	300	162	3.34	D50100RS-BV	67,915	N2	1210 (c)	6,101,102	T32T1314	STAB	417708-26
125	1750/2000	C2815ATZ	500	300	168	4.15	D51100R-BV	56,918	N2	1239	6,104	T28T1344	STR	417708-26
		C2813ATZ	500	300	204	6.93	D50125R-BV	49,873	N2	997	6,103	T28T1333	STR	417708-26
		UC2813ATZ	500	300	204	6.93	D50125UR-BV	51,108	N2	945	5,6,103	T28T1349	STR	417708-26
		LC3212ATZ	500	300	203	4.4	D50125RS-BV	71,773	N2	1290 (c)	6,101,102	T32T1318	STAB	417708-26
150	1750/2000	UC3214ATZ	500	300	204	8.37	D51125RR-BV	73,535	N2	1475	5,6,103	T32T1327	STR	417708-26
		C2815ATZ	500	300	250	10.64	D50150RE-BV	56,918	N2	1197	6,103	T28T1352	STR	417708-26
		UC2815ATZ	500	300	250	10.64	D50150URE-BV	58,152	N2	1197	5,6,103	T28T1351	STR	417708-26
		MC3612ATZ	500	300	240	4.81	D50150RS-BV	88,976	N2	1630 (c)	6,105	T36S1313	STAB	417708-26
200	1750/2000	ULC3612ATZ	500	300	246	8.45	D51150RR-BV	89,964	N2	1850	5,6,104	T36S1323	STR	417708-26
		UC3214ATZ	500	300	322	8.37	D50200RR-BV	73,535	N2	1475	5,6,103	T32T1322	STR	417708-26
		LC3612ATZ	500	300	321	5.41	D50200RS-BV	91,619	N2	1905 (c)	6,105	T36S1314	STAB	417708-26
	1750/2000	C3613ATZ	500	300	323	10.7	D51200R-BV	106,410	N2	1850	6,104	T36S1325	STR	417708-26

NOTES: Encoder and tachometer kits available.

- (a) Field amps at 25°C
- (b) 210TC C-Face
- (c) Extruder duty enclosed commutator design
- (d) Power Code D

Definite Purpose Motors
Unit Handling Motors
Brake Motors
IEC Frame Motors
50 Hertz Motors
Inverter/Vector Motors & Controls
DC Motors and Controls
Gearmotors and Gear Products
Motor Accessories
Grinders

RPM III Wound Field SCR Drive DPG-FV Motors, 240V & 500V Armature, Power Code C

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
250	1750/2000	ULC3612ATZ	500	300	405	8.87	D50250RR-BV	89,964	N2	1891	5,6,104	T36S1318	STR	417708-26
		C4011ATZ	500	300	400	6.63	D50250RS-BV	124,469	N2	2310 (c)	6,105	T40S1306	STAB	417708-26
	1150/2000	MC4013ATZ	500	300	406	10.7	D51250R-BV	145,465	N2	2735	6,104	T40S1317	STR	417708-26
300	1750/2000	LC3613ATZ	500	300	478	12.5	D50300R-BV	113,818	N2	2190	6,104	T36S1319	STR	417708-26
	1750/2100	MC4013ATZ	500	300	478	6.5	D50300RS-BV	150,442	N2	2815 (c)	6,105	T40S1309	STAB	417708-26
	1150/2000	LC4013ATZ	500	300	485	13.2	D51300R-BV	163,196	N2	3015	6,104	T40S1320	STR	417708-26
400	1750/2000	MC4013ATZ	500	300	640	11.9	D50400R-BV	145,465	N2	3040	6,104	T40S1314	STR	417708-26
		LC4013ATZ	500	300	635	7.97	D50400RS-BV	168,174	N2	3040 (c)	6,105	T40S1311	STAB	417708-26
	1150/1600	C4413ATZ	500	300	644	13	D51400R-BV	201,741	N2	3830	6,101,104	T44T1304	STR	417708-156
500	1750/2050	C4412ATZ	500	300	797	10.8	D50500R-BV	196,381	N2	3480	6,101,104	T44T1305	STR	417708-156
	1150/1450	C4414ATZ	500	300	805	12.3	D51500R-BV	206,180	N2	4560	6,101,104	T44T1306	STR	417708-156

NOTES: Encoder and tachometer kits available.

(a) Field amps at 25°C

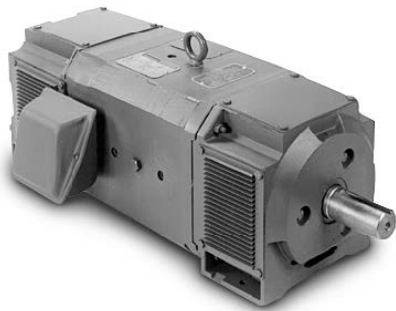
(c) Extruder duty enclosed commutator design

(b) 210TC C-Face

(d) Power Code D

RPM III Wound Field SCR Drive DPG Motors, 240V & 500V Armature Power Code C

3 thru 60 Hp



Features:

- Laminated square frame for improved commutation
- High limit thermostat
- Tachometer adaptable
- Class F insulation system
- Service line brushes with convenient wear indicating reference lines
- PLS™ bearing lubrication system for longer bearing and motor life

Applications:

- Metals
- Paper
- Web Processes
- Extruders and packaging
- Machine tools

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes	Reliance M/N	Field Type	XPY Tach Kit
			Arm.	Field	Arm.	Field (a)(b)								
3	1750/2300	DC189ATCZ (c)(e)	240	150	11	1.52	D2003R	6,431	N2	161	80,83	T18R1127	STAB	413336-1R
		C1811ATZ	500	300	5.2	0.72	D5003R	9,967	N2	197	80	T18R1333 (d)	STR	413336-1R
5	1750/2300	C1811ATZ	240	150	19.2	1.77	D2005R	10,358	N2	194	80,83	T18R1318 (d)	STAB	413336-1R
		C1811ATZ	500	300	9	1	D5005R	9,967	N2	194	80	T18R1334 (d)	STR	413336-1R
7 1/2	1750/2300	C1811ATZ	240	150	28	1.95	D2007R	10,358	N2	210	80,83	T18R1301 (d)	STAB	413336-1R
		C1811ATZ	500	300	13.5	1.29	D5007R	9,967	N2	197	80	T18R1335 (d)	STR	413336-1R
10	1750/2300	C1812ATZ	240	150	37	2.13	D2010R	11,335	N2	233	80,84	T18R1302 (d)	STAB	413336-1R
		C1812ATZ	500	300	17.4	1.09	D5010R	11,335	N2	227	80,85	T18R1307 (d)	STAB	413336-1R
15	1750/2300	SC2113ATZ	240	150	56	4.12	D2015R	15,311	N2	315	87	T21S1330	STAB	417708-21
		SC2113ATZ	500	150/300	27	1.76	D5015R	15,311	N2	320	87	T21S1322	STAB	417708-21
20	1750/2300	LC2113ATZ	240	150	74	4.23	D2020R	18,661	N2	403	87	T21S1331	STAB	417708-21
		MC2113ATZ	500	150/300	35	1.98	D5020R	17,074	N2	372	87	T21S1323	STAB	417708-21
25	1750/2300	LC2113ATZ	240	150	91.5	5.84	D2025R	18,661	N2	415	87	T21S1332	STAB	417708-21
		LC2113ATZ	500	150/300	43	2.63	D5025R	18,661	N2	394	87	T21S1324	STAB	417708-21
30	1750/2300	SC2512ATZ	240	150	111	3.45	D2030R	26,466	N2	515	87	T25S1330	STAB	417708-21
		SC2512ATZ	500	150/300	52	1.71	D5030R	26,466	N2	520	87	T25S1322	STAB	417708-21
40	1750/2300	LC2512ATZ	500	150/300	68	2.4	D5040R	28,717	N2	605	6,87	T25S1323	STAB	417708-21
50	1750/2300	MC2812ATZ	500	150/300	85	2.02	D5050R	41,092	N2	766	6,87	T28S1313	STAB	417708-26
60	1750/2100	LC2812ATZ	500	300	100	2.78	D5060R	45,931	N2	860	6,87	T28S1314	STAB	417708-26

NOTES: Encoder and tachometer kits available.

(a) Field amps at 25°C

(b) Field amps for high voltage connection

(c) 180 TC C-face

(d) Power Code D

(e) Top mounted conduit box, if blower added, blower must be mounted F-1 or F-2

For more information visit baldor.com

**RPM III DC Motor
Encoder and Tachometer Kits**

Applications: Encoder and Tachometer Kits for field installation

Features: Kits include the encoder or tachometer and all mounting hardware required for installation on RPM III DC Motors.

Device Type	Output	Catalog Number	Frames	Enclosure	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
RD120-1	1 x 120 ppr	417708-30	DC180, C180, DC2112	DPG, DPFV	3,164	E8	5
		417708-32	C210-C250	DPG, DPFV, TENV	3,164	E8	5
		417708-33	C280-C400	DPG, DPFV, TENV	3,164	E8	5
		417708-153	C440	DPG, DPFV, TENV	3,164	E8	5
RD120-2	2 x 120 ppr	417708-34	DC180, C180, DC2112	DPG, DPFV	3,764	E8	5
		417708-36	C210-C250	DPG, DPFV, TENV	3,764	E8	5
		417708-37	C280-C400	DPG, DPFV, TENV	3,764	E8	5
		417708-154	C440	DPG, DPFV, TENV	3,764	E8	5
H20	1024 ppr	417708-133	DC180, C180, DC2112	DPG, DPFV, TENV	4,036	E8	5
		417708-134	C210-C250	DPG, DPFV, TENV	4,036	E8	5
		417708-135	C280-C400	DPG, DPFV, TENV	4,036	E8	5
		417708-151	C440	DPG, DPFV, TENV	4,036	E8	5
RL67	1024z ppr	417708-126	DC180, C180, DC2112	DPG, DPFV, TENV	5,128	E8	4
		417708-136	C210-C250	DPG, DPFV, TENV	5,128	E8	6
		417708-137	C280-C400	DPG, DPFV, TENV	5,128	E8	6
		417708-138	C440	DPG, DPFV	5,128	E8	4
PTG4590AC	45/90VAC/ 1000RPM	417708-244	DC180, C180, DC2112	DPG, DPFV, TENV	4,673	N5	35
		417708-245	C210-C250	DPG, DPFV, TENV	4,673	N5	22
		417708-246	C280-C400	DPG, DPFV, TENV	4,673	N5	22
		417708-247	C440	DPG, DPFV, TENV	4,673	N5	35

**Encoder and Tachometer
Mounting Kits (less tach)**

Applications: Encoder and Tachometer Kits for field installation

Features: Kits include all mounting hardware required for installation on RPM III DC motors. Feedback device not included.

Device Type	Catalog Number	Frames	Enclosure	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
XC42, XC46, BC42, BC46, H56, 800123-R & -S	413336-2R	DC180, C180, DC2112	DPG, DPFV, TENV	1,689	A8	9
	417708-22	C210-C250	DPG, DPFV, TENV	1,689	A8	9
	417708-27	C280-C400	DPG, DPFV, TENV	1,689	A8	9
	417708-155	C440	DPG, DPFV, TENV	1,689	A8	9
	417709-21	C180	TEFC	4,245	A8	19
	417709-58	C210	TEFC	4,245	A8	20
	417709-59	C250	TEFC	4,245	A8	23
	417709-60	C280	TEFC	4,245	A8	23
	417709-61	C320	TEFC	4,245	A8	29
XPY, XPYII, 5PY, RPY444	413336-1R	DC180, C180, DC2112	DPG, DPFV, TENV	1,689	A8	7
	417708-21	C210-C250	DPG, DPFV, TENV	1,689	A8	7
	417708-26	C280-C400	DPG, DPFV, TENV	1,689	A8	7
	417708-156	C440	DPG, DPFV, TENV	1,689	A8	8
	417709-17	C180	TEFC	4,245	A8	6
	417709-65	C210	TEFC	4,245	A8	6
	417709-66	C250	TEFC	4,245	A8	9
	417709-67	C280	TEFC	4,245	A8	15
RL67	417708-40	DC180, C180, DC2112	DPG, DPFV, TENV	1,091	A8	1
	417708-41	C210 - C250	DPG, DPFV, TENV	1,091	A8	2
	417708-42	C280 - C400	DPG, DPFV, TENV	1,091	A8	1
	417708-157	C440	DPG, DPFV, TENV	1,091	A8	1

Blower Kits for use with RPM III DC Motors Suitable for operation on 230/460V or 240/480V, 3-Phase, 50/60 Hz

Motor Frame	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt. (lb)	Description
C180ATZ, DC180ATZ	417077-51	1,491	A8	44	Blower Kit Without Filter
C210ATZ	419947-29	1,491	A8	83	Blower Kit Without Filter
C250ATZ	419947-30	1,491	A8	39	Blower Kit Without Filter
C280ATZ	419947-32	1,823	A8	84	Blower Kit Without Filter
C320ATZ	419947-34	2,123	A8	90	Blower Kit Without Filter
C3612ATZ	417077-74	2,123	A8	90	Blower Kit Without Filter
C3613ATZ	417077-127	2,123	A8	110	Blower Kit Without Filter
C400ATZ	417077-75	2,324	A8	85	Blower Kit Without Filter
C440ATZ	417077-126	4,738	A8	225	Blower Kit Without Filter

Filter Kits for use with DPG-FV, RPM III DC motors

Motor Frame	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt. (lb)	Description
C180ATZ, DC180ATZ	417077-57	911	A8	2	Washable Wire Mesh Canister Type
C2113ATZ	417077-58	911	A8	4	Washable Wire Mesh Canister Type
C2115ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C2512ATZ	417077-58	911	A8	4	Washable Wire Mesh Canister Type
C2514ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C2515ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C2812ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C2813ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C2815ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C3210ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C3212ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C3214ATZ	417077-59	911	A8	4	Washable Wire Mesh Canister Type
C3612ATZ	417077-65	1,165	A8	7	Washable Wire Mesh Canister Type
C3613ATZ	417077-102	1,642	A8	6	Washable Wire Mesh Canister Type
C400ATZ	417077-102	1,642	A8	6	Washable Wire Mesh Canister Type
C440ATZ	417077-124	1,893	A8	22	Square Replaceable Polyester Type

Sliding Bases for RPM III DC motors

Applications: Used for adjusting belt tension on belted applications. Not suitable for wall or ceiling mounting.

Motor Frame	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt. (lb)	Description	Dimension Sheet
DC1810ATZ	42384-26D	319	A8	14	Standard Duty	609987-501
DC1811ATZ	42384-26BE	319	A8	17	Heavy Duty	609987-501
C1811ATZ	42384-26BE	278	A8	17	Heavy Duty	609987-1
C1812ATZ	42384-26BF	319	A8	17	Heavy Duty	609987-1
DC2112ATZ	42384-26BH	545	A8	29	Heavy Duty	609958-51
C2113ATZ	419914-1A	545	A8	50	Heavy Duty	609957-1
C2115ATZ	419914-1P	545	A8	36	Heavy Duty	609957-1
C2512ATZ	419914-1B	634	A8	33	Heavy Duty	609957-1
C2514ATZ	419914-1R	634	A8	59	Heavy Duty	609957-1
C2515ATZ	419914-1S	634	A8	36	Heavy Duty	609957-1
UC2812ATZ	419914-1C	1,223	A8	37	Heavy Duty	609957-1
UC2813ATZ	419914-1T	1,223	A8	26	Heavy Duty	609957-1
UC2815ATZ	419914-1U	1,223	A8	42	Heavy Duty	609957-1
UC3212ATZ	419914-1D	1,606	A8	69	Heavy Duty	609977-1
UC3214ATZ	419914-1W	1,606	A8	76	Heavy Duty	609977-1
UC3612ATZ	419914-1E	2,166	A8	76	Heavy Duty	609977-1
UC3613ATZ	419914-1X	2,166	A8	81	Heavy Duty	609977-1

**SCR Drive Motors, Shunt Wound –
DPFG, Self Ventilated, Rigid Base**

5 thru 250 Hp



Features:

- High dielectric stability
- Low moment of inertia armature for fast response
- Includes thermostat on interpole
- Constant pressure brush springs and longer brushes for reduced maintenance
- Class F insulation system
- Includes grease fittings and reliefs for bearing maintenance
- Tachometer adaptable

Applications:

- Conveyors
- Plastic extruders
- Packaging machinery
- Other constant torque applications

Hp	Base/Max Speed (a)	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price Motors Only (c)	Mult. Sym.	Ap'x. Shpg. Wgt. (d)	XPY Tach Kit	Blower Catalog Number	Notes (e)
			Arm.	Field	Arm.	Field (b)							
5	1750/2300	L186AT	240	150/300	17.7	.74	D2005P	6,430	N2	180	TKP1836XP	FVB3180	2,20
			500	150/300	8.5	.669	D5005P	6,430	N2	162	TKP1836XP	FVB3180	2,20
7 1/2	1750/2300	1810AT	240	150/300	27.8	.92	D2007P	7,476	N2	218	TKP1836XP	FVB3180	2,20
		218AT	500	150/300	13.2	.685	D5007P	8,250	N2	235	TKP1836XP	FVB3210	2,20
10	1750/2300	219AT	240	150/300	36.6	2.14	D2010P	8,486	N2	245	TKP1836XP	FVB3210	2,20
			500	150/300	17.2	1.36	D5010P	8,486	N2	255	TKP1836XP	FVB3210	2,20
15	1750/2300	258AT	240	150/300	55	2.60	D2015P	10,157	N2	375	TKP1836XP	FVB3250	2,20
			500	150/300	25.2	1.39	D5015P	10,157	N2	375	TKP1836XP	FVB3250	2,20
20	1750/2300	259AT	240	150/300	70.5	2.48	D2020P	11,612	N2	430	TKP1836XP	FVB3250	2,20
			500	150/300	35.1	1.24	D5020P	11,612	N2	430	TKP1836XP	FVB3250	2,20
25	1750/2300	288AT	240	150/300	89.2	2.96	D2025P	15,694	N2	575	TKP1836XP	FVB4280	2,20
		287-8AT	500	150/300	43.4	1.64	D5025P	15,694	N2	490	TKP1836XP	FVB4280	2,20
30	1750/2300	288AT	240	150/300	106	2.96	D2030P	15,694	N2	595	TKP1836XP	FVB4280	2,20
			500	150/300	50	2	D5030P	24,447	N2	590	TKP1836XP	FVB4280	2,20
40	1750/2100	328AT	500	150/300	67.9	2.16	D5040P	21,005	N2	784	TKP1836XP	FVB6320	2,20
50	1750/2100	328AT	500	150/300	83.7	1.99	D5050P	28,164	N2	822	TKP1836XP	FVB6320	2,20
60	1750/2100	365-6AT	500	150/300	98.6	1.74	D5060P	28,164	N2	790	TKP1836XP	FVB6400	2,20
75	1750/2100	366AT	500	150/300	123	1.48	D5075P	43,687	N2	905	TKP1836XP	FVB6400	2,20
100	1750/2000	368AT	500	150/300	158	3	D50100P	37,985	N2	1100	TKP1836XP	FVB6400	2,20
125	1750/2000	407AT	500	150/300	200	3	D50125P	43,687	N2	1445	TKP400XP	FVB6400	2,20
150	1750/2000	409AT	500	150/300	237	2.34	D50150P	54,469	N2	1785	TKP400XP	FVB6400	2,20
200	1750/1900	504AT	500	150/300	320	3.9	D50200P	67,961	N2	2095	TKP500XP	FVB8500	2,20
250	1750/1900	506AT	500	150/300	392	5.01	D50250P	81,440	N2	2540	TKP500XP	FVB8500	2,20

NOTES:

- (a) DPGF enclosure is self-ventilated. Speed can be reduced to approximately 60% of base speed with constant torque. See performance data in CA608 catalog for specific speed-torque curves. Separate blower can be used to increase operating range below 60% of base speed.
- (b) Field amps are for 150V connection on 240VDC motors; 300V connection on 500VDC motors.
- (c) Does not include price of blower.
- (d) Does not include weight of blower.
- (e) See notes on inside back flap.
- 180 frame motors are supplied without external conduit box, see online layout drawing for details.

SCR Drive Motor, Shunt Wound DPBV Enclosure – Rigid Base

40 thru 500 Hp



Features:

- High dielectric stability
- Low moment of inertia armature for fast response
- Includes thermostat on interpole
- Constant pressure brush springs and longer brushes for reduced maintenance
- Class F insulation system
- Includes grease fittings and reliefs for bearing maintenance
- Tachometer adaptable
- Blower-ventilated, includes filter

Applications:

- Conveyors
- Plastic extruders
- Packaging machinery
- Other constant torque applications

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price w/Blower & Filter	Mult. Sym.	Ap'x. Shpg. Wgt.	XPY Tach Kit	Notes (b)
			Arm.	Field	Arm.	Field (a)						
40	1750/2100	328AT	240	150/300	138	2.64	D2040P-BV	24,447	N2	855	TKP1836XP	2,20
			500	150/300	67.9	2.16	D5040P-BV	24,447	N2	830	TKP1836XP	2,20
50	1750/2100	328AT	240	150/300	175	2.64	D2050P-BV	24,447	N2	873	TKP1836XP	2,20
			500	150/300	83.7	1.99	D5050P-BV	24,447	N2	885	TKP1836XP	2,20
60	1750/2100	366AT	240	150/300	201	5.58	D2060P-BV	31,637	N2	980	TKP1836XP	2,20
		365-6AT	500	150/300	98.6	1.74	D5060P-BV	31,637	N2	880	TKP1836XP	2,20
75	1750/2100	366AT	240	150/300	256	5.58	D2075P-BV	31,637	N2	975	TKP1836XP	2,20
			500	150/300	123	1.48	D5075P-BV	31,637	N2	960	TKP1836XP	2,20
100	1750/2000	368AT	500	150/300	158	3	D50100P-BV	41,458	N2	1145	TKP1836XP	2,20
125	1750/2000	368AT	500	150/300	197	3	D50125P-BV	41,458	N2	1170	TKP1836XP	2,20
150	1750/2000	407-9AT	500	150/300	238	2.69	D50150P-BV	47,510	N2	1519	TKP400XP	2,20
200	1750/1900	409AT	500	150/300	311	3.75	D50200P-BV	59,181	N2	1830	TKP400XP	2,20
250	1750/1900	504-6AT	500	150/300	405	4.85	D50250P-BV	72,450	N2	2175	TKP500XP	2,20
300	1750	506AT	500	150/300	478	6.2	D50300P-BV	85,928	N2	2629	TKP500XP	2,20
400	1750/1900	508AT	500	150/300	624	6.07	D50400P-BV	121,298	N2	3285	TKP5006XP	2,20
500	1750/1900	5010AT	500	150/300	788	6.03	D50500P-BV	159,295	N2	4170	TKP500XP	2,20

NOTES:

- (a) Field amps are for 150V connection on 240VDC motors; 300V connection on 500VDC motors.
 (b) See notes on inside back flap.

SCR Drive Motor, 240V Armature – 240V Field Shunt Wound DPFG – Self-Ventilated Rigid Base and C-Face

3 thru 15 Hp



Features:

- High dielectric stability
- Low moment of inertia armature for fast response
- Includes thermostat on interpole
- Constant pressure brush springs and longer brushes for reduced maintenance
- Class F insulation system
- Includes grease fittings and reliefs for bearing maintenance
- Power Code C or M-G sets
- Maximum RPM by field weakening

Applications:

- Textile equipment
- Conveyors
- Plastic extruders
- Packaging machinery
- Other constant torque applications

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price Motor (b)	Mult. Sym.	Ap'x. Shpg. Wgt. (c)	XPY Tach Kit	Blower Catalog Number	Notes (d)
			Arm.	Field	Arm.	Field (a)							
3	1750/2300	L186ATC	240	120/240	10.6	.445	CD2003P-2	6,647	N2	170	TKP1836XP	FVB3180	2
5	1750/2300	L186ATC	240	120/240	17.7	.484	CD2005P-2	6,647	N2	170	TKP1836XP	FVB3180	2
7 1/2	1750/2300	1810ATC	240	120/240	28.1	.458	CD2007P-2	7,693	N2	222	TKP1836XP	FVB3180	2
10	1750/2300	219ATC	240	120/240	36.6	1.26	CD2010P-2	9,100	N2	250	TKP1836XP	FVB3210	2
15	1750/2300	258ATC	240	120/240	55	1.25	CD2015P-2	10,772	N2	408	TKP1836XP	FVB3250	2

NOTES:

- (a) Field amps for 240VDC connection.
 (b) Does not include price of blower and filter.
 (c) Does not include weight of blower and filter. Tach mounting kits available.
 (d) See notes on inside back flap. 180 frame motors are supplied without external conduit box, see online layout drawing for details.

Shunt Wound SCR Drive Motor – TEFC, Rigid Base

5 thru 25 Hp



Features:

- Includes thermostat on interpole
- Constant pressure brush springs and longer brushes for reduced maintenance
- Class F insulation system
- Includes grease fittings and reliefs for bearing maintenance
- Tachometer adaptable

Applications:

- Conveyors
- Packaging machinery

Hp	Base/Max Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price Motors Only	Mult. Sym.	Ap'x. Shpg. Wgt.	XPY Tach Kit	Notes (b)
			Arm.	Field	Arm.	Field (a)						
5	1750/2300	1810AT	240	150/300	17.6	0.764	D2505P	9,275	N2	220	N/A	2
			500	150/300	8.3	0.382	D5505P	9,275	N2	214	N/A	2
7 1/2	1750/2300	2110AT	240	150/300	26.6	2.10	D2507P	10,795	N2	300	TKP2136XPT	2
			500	150/300	12.3	1.05	D5507P	10,795	N2	310	TKP2136XPT	2
10	1750/2300	259AT	240	150/300	34.3	1.72	D2510P	13,411	N2	250	TKP2136XPT	2
			500	150/300	16.3	0.86	D5510P	13,411	N2	250	TKP2136XPT	2
15	1750/2300	288AT	240	150/300	51.7	1.96	D2515P	17,896	N2	630	TKP2136XPT	2
			500	150/300	24.5	0.99	D5515P	17,896	N2	630	TKP2136XPT	2
20	1750/2300	328AT	240	150/300	68.8	2.22	D2520P	23,569	N2	850	TKP2136XPT	2
			500	150/300	32.7	1.11	D5520P	23,569	N2	875	TKP2136XPT	2
25	1750/2300	328AT	240	150/300	84.8	2.22	D2525P	23,569	N2	872	TKP2136XPT	2
			500	150/300	40.9	1.11	D5525P	23,569	N2	875	TKP2136XPT	2

NOTES:

- (a) Field amps are for 150V connection on 240VDC motors; 300V connection on 500VDC motors. Tach mounting kits available.
 (b) See notes on inside back flap.
 180 frame motors are supplied without external conduit box, see online layout drawing for details.

Lifting Magnet Generators

5 thru 40 kW



Features:

- Class H insulation with Class F temperature rise
- Precision brush holders
- Constant pressure brush springs
- Double sealed bearings
- Compound wound with drooping voltage characteristics
- CDMG generators have C-face and base mounting

Applications:

- Crane mounted lifting magnets

kW	Base Speed	NEMA Frame	Voltage D.C.		Full Load Amperage		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Field Control Rheostat		Notes (a)
			Arm.	Field	Arm.	Field					Ohms	Amp Max.	
5	2500	1810AT	230	230	21.7	0.62	DMG2305	7,747	N2	220	300	0.85	2
7 1/2	2500	219AT	230	230	32.6	1.15	DMG2307	8,912	N2	245	150	1.6	2
10	2500	219AT	230	230	43.5	0.878	DMG2310	9,877	N2	250	200	1.4	2
		219ATC	230	230	43.5	0.878	CDMG2310	10,496	N2	250	200	1.4	2
15	1750	259AT	230	230	65	1.33	DMG2315	16,580	N2	250	200	1.82	2
		259ATC	230	230	65	1.33	CDMG2315	17,185	N2	250	200	1.82	2
20	1750	288AT	230	230	87	1.8	DMG2320	18,151	N2	595	125	2.52	2
		288ATC	230	230	87	1.8	CDMG2320	19,184	N2	613	125	2.52	2
25	1750	328AT	230	230	109	2.13	DMG2325	19,848	N2	820	100	3.0	2
		328ATC	230	230	109	2.13	CDMG2325	20,873	N2	886	100	3.0	2
33	1750	328AT	230	230	144	2.13	DMG2333	25,169	N2	840	100	3.0	2
		328ATC	230	230	144	2.13	CDMG2333	26,186	N2	880	100	3.0	2
40	1750	329AT	230	230	174	3.7	DMG2340	27,589	N2	910	50	5.2	2

NOTES:

- Field control rheostat and meters are not included in price or available from Baldor.
 (a) See notes on inside back flap.

Tach Mounting Kits and Cooling Blowers for DC Integral Hp Motors



Applications: Allows addition of DC, AC and digital tachometers to large DC motors for closed-loop operation.

Features: Tach mounting kits supply adapter, coupling, accessory shaft and mounting hardware. Allows mounting to 8.5 inch accessory face on most large DC motors.

Tach Mounting Kits for DC Integral Hp Motor Catalog No. Ending With "P"

Tach Type	Motor Frame	Motor Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
XPYII	180/360	DPFG, DPBV	TKP1836XP	1,142	A8	1
XPY, DPY	210/360	TEFC	TKP2136XPT	1,142	A8	13
BTG1000	400	DPFG, DPBV	TKP400XP	1,142	A8	2
	500	DPFG, DPBV	TKP500XP	1,142	A8	3
XC42 or XC46	210/360	DPFG, DPBV	TKP2136XC	1,689	A8	16
	500	DPFG, DPBV	TKP500XC	1,689	A8	7
ENC00NV ENCODER	180/360	DPFG, DPBV	TKP1836ENC	867	A8	17
	400	DPFG, DPBV	TKP400ENC	867	A8	16
	500	DPFG, DPBV	TKP500ENC	867	A8	17
NCS PANCAKE	210/360	DPFG, DPBV	TKP2136NC	65	A8	3
	400	DPFG, DPBV	TKP400NC	65	A8	1
	500	DPFG, DPBV	TKP500NC	65	A8	1
AC PANCAKE	210/360	DPFG, DPBV	TKP2136AC	65	A8	2
	400	DPFG, DPBV	TKP400AC	65	A8	1
	500	DPFG, DPBV	TKP500AC	65	A8	1

Blower and Mounting Kits for DC Integral Hp Motor Catalog No. Ending With "P"

Motor Frame	Catalog Number	Blower Power	Blower Size	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
Blower and Mounting Kit						
180	FVB3180	1 PH	LM 3	1,491	A8	18
210	FVB3210	3 PH	LM 3	1,491	A8	25
250	FVB3250	3 PH	LM 3	1,491	A8	19
280	FVB4280	3 PH	LM 4	1,823	A8	44
320	FVB6320	3 PH	LM 6	2,123	A8	46
360-400	FVB6400	3 PH	LM 6	2,323	A8	59
504-506	FVB8500	3 PH	LM 8	2,750	A8	93
508-5012	FVB95010 (a)	3 PH	LM 9	4,738	A8	171
Filter and Hardware for Above Blowers						
180, 210, 250	FLT3210-250 (b)	-	LM 3	791	A8	2
280	FLT4280	-	LM 4	791	A8	9
320,360,400	FLT6320-400	-	LM 6	791	A8	14
504-506	FLT8500	-	LM 8	965	A8	9

NOTES:

(a) Includes Blower and Filter.

(b) Also used with FVB3180.

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Tachometer Generators DC, AC and Digital Output



Applications: Speed feedback for controls (encoders also offer position feedback).

Features: Ball bearing construction, standard mounting flanges and/or feet.

Generator Type	Voltage	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
XPY Flange Mount (DC)					
30AFL-0	50VDC	BTG1000	559	DS	7
XPYIII	100VDC	BTG100XPS	1,021	N5	6
XPYII	100VDC	PTG100XPS	1,509	N5	10
XPY	100VDC	PTG100XP	1,453	N5	6
XPYIII	50VDC	BTG50XPS	1,021	N5	2
XPYII	50VDC	PTG50XPS	1,509	N5	8
XPY	50VDC	PTG50XP	1,453	N5	6
XPY Washdown Flange Mount (DC)					
XPYII	100VDC	PTGWD100XPS	1,607	N5	10
XPYIII	100VDC	BTGWD100XPS	1,214	N5	2
XPYII	50VDC	PTGWD50XPS	1,607	N5	10
XPYIII	50VDC	BTGWD50XPS	1,214	N5	2
Encoder Based Digital PY Flange Mount					
DPY	1024PPR	PTG1024LD (a)	1,895	N5	1
Electrically Isolated Encoder					
E-ACC	1024PPR	ENCOINV (a) (b)	1,932	E8	2
Metric Flange Mount (DC)					
XPY	60VDC	PTG60XP-M (c)	1,453	N5	5
XPYII	60VDC	PTG60XPS-M (c)	1,509	N5	11
XPYIII	60VDC	BTG60XPS-M (c)	1,021	N5	2
Foot Mount (DC)					
XPY	100VDC	PFTG100XP	1,453	N5	6
XPY	50VDC	PFTG50XP	1,453	N5	6
Foot Mount with Face (DC)					
XC42	100VDC	PFTG42100X	2,857	N5	33
XC42	50VDC	PFTG4250XC	2,920	N5	32
XC46	100VDC	PFTG46100X	5,021	N5	43
XC46	50VDC	PFTG4650XC	5,021	N5	44
Pancake Mount (AC & DC)					
AC	45/90VAC	PTG4590AC (d)	1,396	N5	8
NCS	50VDC	PTG50NC (d)	2,085	N5	8

NOTES:

Flange mounted tachs require tach adapters.

XPY tachs have UL listing, file number E109527, CSA file number LR36841-5, XPYII tachs are pending approval.

(a) See Feedback Cable Assemblies for cables.

(b) Electrically isolated encoder & kit: Mounts to SCR motors using appropriate adapter shown on page 255 may eliminate the need for EXB00801 isolated encoder feedback board.

(c) Requires adapter for metric flange tach. Will not mount on adapters for PY flanges.

(d) Does not mount to TEFC. See catalog MN605 for details. Will only mount to DPF and DPBV rigid base mount motors using tach mounting adapter.

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Field Conversion Tach Mounting Kits for Permanent Magnet and Shunt Wound Motor**For PY Flange mounted BTG1000, XPY, XPYII and DPY**

tachometers. Complete kits consisting of fan cover (except TK3300), shaft extension coupling and tach adapter bracket with miscellaneous hardware. If you prefer, the conversion can be made by Baldor Mod Express. Tach kits will not work with Explosion Proof Motors (CDPX or CDX). See PY flange mount tachs.

Baldor Motor Type	Kit Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
3300P	TK3300	202	A8	1
3400D/P	TK3400	358	A8	4
3500D/P	TK3500	377	A8	9
3600D	TK3600	498	A8	10
3600P	TK3600PM	498	A8	7
7500D	TK7500	516	A8	17
9100D	TK9100	557	A8	23

NEMA 1 Enclosed DC Controls for PMDC and Shunt Wound Motors

1/100 thru 2 Hp 115/230 VAC Single Phase 50/60 Hz.

Applications: General purpose industrial use with permanent magnet or shunt wound DC motors.

Features: SCR controls have a free-wheeling diode and feature adjustable accel, decel, current limit, IR comp, min. and max speed pots to match applications. The anti-demag feature protects PM motors and helps protect the SCR power bridge against direct shorts.

Rugged all-metal NEMA 1 / IP20 enclosure. Unidirectional drives - change motor rotation by switching armature leads or by adding Forward/Brake/Reverse switch kit, if available.

The controls have US and Canadian UL component recognition.

A Plug-in Horsepower Resistor® and armature fuse must be ordered and installed in BC138, BC139, BC140, BC140-FBR, BC141 and BC142.



BC140-FBR
Enclosed
(NEMA 1)



BC138
Enclosed
(NEMA 1)

Catalog Number	Hp Range & Input Voltage		Description	Max Input Current (AC Amps)	Max Output Current (DC Amps)	List Price	Mult. Sym.	Apr'x. Shpg. Wgt. (lbs)
	115VAC Input / 90VDC Armature	230VAC Input / 180VDC Armature (c)						
BC138	1/100 - 1/3	—	Enclosed SCR control, single voltage	5	3.5	218	E9	1
BC139	—	1/50 - 3/4	Enclosed SCR control, single voltage	5	3.5	218	E9	1
BC140	1/100 - 3/4	1/50 - 1.5	Enclosed SCR control, optional heatsink, dual voltage	12	6	369	E9	3
	1/100 - 1 (a)	1/50 - 2 (a)		16 (a)	12 (a)			
BC140-FBR (b)	1/100 - 3/4	1/50 - 1.5	BC140 with BC144 Forward/Brake/Reverse switch factory installed	12	6	510	E9	3
	1/100 - 1 (a)	1/50 - 2 (a)		16 (a)	12 (a)			

NOTES:

- (a) Max rating of 1 Hp at 115V and 2 Hp at 230V requires BC143 heatsink kit. See specification pages at the end of this section for details.
 - (b) FBR = Forward/Brake/Reverse switch installed
 - (c) Drives with 230V input can operate 90V motors at reduced performance levels. Refer to Installation & Operation Manual for details.
- A Plug-in Horsepower Resistor® and armature fuse **must** be ordered and installed in BC138, BC139, BC140 and BC140-FBR.

DC Control Accessories

Catalog Number	Description	List Price	Mult. Sym.	Apr'x. Shpg. Wgt.
BC24-LF	Ac Line Filter for use with CE Applications (24 Amps AC Max.)	75	E9	1
BC143	External Heatsink Kit (BC140, BC140-FBR, BC141, BC142, BC204)	72	E9	2
BC144	Forward-Brake-Reverse Switch Kit for BC140	124	E9	1
BC145	Signal Isolator Board	211	E9	1
BC147	Barrier Terminal Board (BC141 and BC142)	30	E9	1
BC148	Replacement Potentiometer Kit (5K ohm)	13	E9	1
BC149	Knob and Dial Kit	15	E9	1
BC152	Barrier Terminal Board With Signal Isolator (BC141 and BC142)	193	E9	1
BC218	DIN-rail mounting kit for BC141, BC142 or BC204	36	E9	1

NOTE:

BC24-LF is an AC line filter required for applications where CE is required if the control is not filtered elsewhere in the application. This filter may be used on most 115 or 230 VAC, single phase applications where CE is required.

Chassis Mount DC Controls

**1/100 thru 1.5 Hp
1/50 thru 5 Hp**

**115 VAC Single Phase 50/60 Hz.
230 VAC Single Phase 50/60 Hz.**

Applications: General purpose industrial use with permanent magnet or shunt wound DC motors.

Features: Chassis-mount SCR controls have a free-wheeling diode and feature adjustable accel, decel, current limit, IR comp, min and max speed pots to match applications. The anti-demag feature protects PM motors and helps protect the SCR power bride against direct shorts. The controls have US and Canadian UL component recognition.

A Plug-in Horsepower Resistor® and armature fuse **must** be ordered and installed in all versions of BC141 and BC142.



BC142

Catalog Number	Hp Range & Input Voltage		Description	Max Input Current (AC Amps)	Max Output Current (DC Amps)	List Price	Mult. Sym.	Apr'x. Shpg. Wgt. (lbs.)
	115VAC Input / 90VDC Armature	230VAC Input / 180VDC Armature (c)						
Chassis Mount – SCR Controls								
BC141	1/100 - 0.75	—	Chassis SCR control, optional heatsink, single voltage	12.0	8.0	202	E9	1
	1/100 - 1.5 (a)	—		24.0 (a)	16.0 (a)			
BC141-SIH	1/100 - 0.75	—	BC141 with BC152 Signal Isolator and BC143 Heatsink factory installed	12.0	8.0	477	E9	2
	1/100 - 1.5 (a)	—		24.0 (a)	16.0 (a)			
BC142	—	1/100 - 1.5	Chassis SCR control, optional heatsink, single voltage	12.0	8	202	E9	2
	—	1/100 - 3.0 (a)		24.0 (a)	16.0 (a)			
BC142-SIH	—	1/100 - 1.5	BC142 with BC152 Signal Isolator and BC143 Heatsink factory installed	12.0	8.0	499	E9	2
	—	1/100 - 3.0 (a)		24.0 (a)	16.0 (a)			
BC142-5	1/100 - 0.75	1/100 - 1.5	Chassis SCR Control, optional heatsink, dual voltage, supplied without fuses and fuse holders	12.0	8.0	225	E9	1
	1/100 - 1.5 (a)	1/100 - 3.0 (a)		24.0 (a)	16.0 (a)			
BC142-6	1/100 - 0.75	1/100 - 1.5	Chassis SCR control, optional heatsink, dual voltage	12.0	8.0	224	E9	1
	1/100 - 1.5 (a)	1/100 - 3.0 (a)		24.0 (a)	16.0 (a)			
BC142-6-SIH	1/100 - 0.75	1/100 - 1.5	BC142-6 with BC152 signal isolator board and BC143 Heatsink factory installed	12.0	8.0	499	E9	1
	1/100 - 1.5 (a)	1/100 - 3.0 (a)		24.0 (a)	16.0 (a)			
BC155	—	5.0	Chassis SCR control with heatsink, single voltage	38.0	26.0	660	E9	5
Chassis Mount – Line Regenerative SCR Controls								
BC204	1/6 - 0.75	1/3 - 1.0	Chassis regen SCR control, optional heatsink, dual voltage	12.0	8.0	377	E9	3
	1/6 - 1.5 (a)	1/3 - 2.0 (a)		16.0 (a)	11.0 (a)			
BC204-BPSI	1/6 - 0.75	1/3 - 1.0	BC204 with BC215 Bi-polar Signal Isolator factory installed	12.0	8.0	487	E9	3
	1/6 - 1.5 (a)	1/3 - 2.0 (a)		16.0 (a)	11.0 (a)			
BC200	1/8 - 1.0	1/4 - 2.0	Chassis regen SCR control, optional heatsink, dual voltage	16.0	11.0	704	E9	4
BC201	1/8 - 1.5	1/4 - 3.0	Chassis regen SCR control, optional heatsink, dual voltage	16.0	16.0	836	E9	1
BC203	—	5.0	Chassis regen SCR control, with heatsink, single voltage	38.0	25.0	1,052	E9	10

NOTES:

Chassis mount controls include 5k speed potentiometer.

Chassis mount control accessories are shown on the previous page

(a) BC143 Heatsink kit required for higher power ratings. See accessory table at the end of this section for details.

(b) Except for BC203, drives with 230V input can operate 90V motors at reduced performance levels. Refer to Installation & Operation Manual for details.

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Plug-in Horsepower Resistor and Fuse Kit



Horsepower Resistors should be selected based on the motor's rated current. The price of the Hp resistor and fuse is included in the BC138, BC139, BC140, BC140-FBR, BC141 and BC142 list price.

See selection below for catalog number.

Ordered as a separate item and shipped at no charge with a drive. Spare resistor kits are available for \$11.00 list, E9 multiplier.

Motor Hp Armature Voltage		Plug-In Hp Resistor Resistance Value (Ohms)	Catalog Number	Ap'x DC Current (Amps)	DC Fuse Rating For Armature
90-130V	180V				
1/100	1/50	1.0	BR1000	0.20	0.5
1/50	1/25	0.51	BR0510	0.30	0.5
1/30	1/15	0.35	BR0350	0.33	0.5
1/20	1/10	0.25	BR0250	0.5	0.75
1/15	1/8	0.25	BR0251	0.8	1.0
1/12	1/6	0.18	BR0180	0.85	1.25
1/8	1/4	0.1	BR0100	1.3	2.0
1/6	1/3	0.1	BR0101	2.0	2.5
1/4	1/2	0.05	BR0050	2.5	4.0
1/3	3/4	0.035	BR0035	3.3	5.0
1/2	1	0.025	BR0025	5.0	8.0
3/4	1 1/2	0.015	BR0015SP	7.5	12.0
1 (a)	2 (a)	0.01	BR0010SP	10	15.0
1 1/2 (a)	3 (a)	0.006	BR0006	15	25.0 (b)

NOTES:

(a) External Heatsink required.

(b) Also used with AC Line Fuse. For AC line fuse rating see manual.

Definite Purpose
Motors

Unit Handling
Motors

Brake Motors

IEC Frame
Motors

50 Hertz
Motors

Inverter/Vector
Motors & Controls

DC Motors
and Controls

Gearmotors and
Gear Products

Motor
Accessories

Grinders

NEMA 4X DC Control and Accessories

1/4 thru 2 Hp
3 Hp

115/230 VAC
230 VAC

Single Phase 50/60 Hz.
Single Phase 50/60 Hz.



BC154 / BC160 / BCWD140 / BC354

Applications: Constant torque, new or replacement.

Features: NEMA 4X / IP65 sealed enclosure with built-in heatsink for wet / dirty environments. BC154, BCWD140 and BC160 are unidirectional controls. Change motor direction by switching armature leads or by adding Forward/ Brake/Reverse switch kit, if available. BC254 is a line regenerative SCR control for reversing applications and can drive the motor to a timed stop. BC354 is a PWM control that provides low-ripple DC power to the motor allowing more Hp when used with a 130 or 260 VDC motor. BC154, BC160, BC254 and BC354 are painted light gray and come with a start-stop switch. BCWD140 has a white epoxy coating (ideal for food processing applications) with forward/brake/reverse and run-jog switches installed. All offer a choice of armature or tachometer feedback and a speed or torque mode.

No Hp resistors are needed for these controls and current is jumper selectable.

Catalog Number	Hp Range & Input Voltage		Description	Max Input Current (AC Amps)	Max Output Current (DC Amps)	List Price	Mult. Sym.	Apr'x. Shpg. Wgt. (lbs.)
	115VAC Input / 90VDC Armature	230VAC Input / 180VDC Armature (c)						
NEMA 4X / IP65 Washdown Duty SCR Controls								
BC154	1/50 - 1	1/25 - 2	Enclosed SCR control, dual voltage	15.0	10.2	467	E9	5
BC154-P	1/50 - 1	1/25 - 2	BC154 with Power switch instead of Start/Stop switch	15.0	10.2	467	E9	5
BC154-R	1/50 - 1	1/25 - 2	BC154 with BC156 - Fwd/Brake/Rev Switch factory installed	15.0	10.2	616	E9	5
BC154-SI	1/50 - 1	1/25 - 2	BC154 with BC145 Signal Isolator Board and BC158 Auto/Man Switch Kit factory installed	15.0	10.2	751	E9	5
BC160	1.5	3	Enclosed SCR control, dual voltage	22.0	15.0	537	E9	3
NEMA 4X / IP65 Washdown Duty SCR Control with White Epoxy Coating								
BCWD140	1/50 - 1	1/25 - 2	Enclosed SCR control, dual voltage, white epoxy coating	15.0	10.2	625	E9	6
NEMA 4X / IP65 Washdown Duty Line Regenerative SCR Control								
BC254	1/10 - 1	1/5 - 2	Enclosed regen SCR control, dual voltage (a)	15.0	11.0	673	E9	5
BC254-FBR	1/10 - 1	1/5 - 2	BC254 with Power On/Off switch instead of Start/Stop switch and BC253 Fwd-Brake-Rev Switch factory installed	15.0	11.0	706	E9	5
NEMA 4X / IP65 Washdown Duty PWM Control								
BC354	1/50 - 0.75	1/25 - 1.5	Enclosed PWM control, dual voltage, with SCR rated motor	11.5	7.5	723	E9	5
	1/30 - 1 (b)	1/20 - 2 (b)	Enclosed PWM control, dual voltage, with PWM rated motor					

NOTES:

- (a) See the next page for BC254 accessories.
- (b) Motors with PWM rated motors designed for 130VDC (115VAC input) or 260VDC (230VAC input) will give best drive performance.
- (c) Except for BC354, drives with 230V input can operate 90V motors at reduced performance levels. Refer to Installation & Operation Manual for details.

DC SCR NEMA 4X DC Control Accessories

Catalog Number	Description	List Price	Mult. Sym.	Apr'x. Shpg. Wgt.
BC153	Electronic Forward-Dynamic Brake-Reverse Kit for BC154, BC354	223	E9	1
BC156	Mechanical Forward-Dynamic Brake-Reverse Switch for BC154, BC354	145	E9	1
BC157	Run/Jog switch for BC154 & BC160, BC354	27	E9	1
BC158	Auto/Manual Installation Kit for BC145 signal isolator for BC154, BC160, BC354	60	E9	1
BC159	AC Line Switch Kit for BC154, BCWD140, BC354	32	E9	1
BC145	Signal Isolator Board	211	E9	1

NOTE: BC159 AC Line Switch Kit is factory installed on BC154, BCWD140, BC254 and BC354. Listed here as replacement or spare parts.

Line Regenerative DC Controls and Accessories

**1/4 thru 3 Hp
5 Hp**

**115/230 VAC
230 VAC**

**Single Phase 50/60 Hz.
Single Phase 50/60 Hz.**

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders



BC254-FBR



BC200 / BC201



BC204

Applications: Frequent start/stop/reverse applications or where controlled braking is required.

Features: Single phase line regenerative open chassis control to operate permanent magnet or wound field DC motors. These line regen controls are ideal for applications with overhauling loads. In torque mode, it can be used for tensioning applications. Several accessory boards are available to further customize the control.

Includes 5k speed potentiometer. Jumper selectable current settings.

Catalog Number	Hp Range & Input Voltage		Description	Max Input Current (AC Amps)	Max Output Current (DC Amps)	List Price	Mult. Sym.	Apr'x. Shpg. Wgt. (lbs.)
	115VAC Input / 90VDC Armature	230VAC Input / 180VDC Armature (c)						
Chassis Mount - Line Regenerative SCR								
BC204	1/6 - 0.75	1/3 - 1.0	Chassis regen SCR control, optional heatsink, dual voltage	12.0	8.0	377	E9	3
	1/6 - 1.5 (a)	1/3 - 2.0 (a)		16.0 (a)	11.0 (a)			
BC204-BPSI	1/6 - 0.75	1/3 - 1.0	BC204 with BC215 Bi-polar Signal Isolator factory installed	12.0	8.0	487	E9	3
	1/6 - 1.5 (a)	1/3 - 2.0 (a)		16.0 (a)	11.0 (a)			
BC200	1/8 - 1.0	1/4 - 2.0	Chassis regen SCR control, optional heatsink, dual voltage	16.0	11.0	704	E9	4
BC201	1/8 - 1.5	1/4 - 3.0	Chassis regen SCR control, optional heatsink, dual voltage	16.0	16.0	836	E9	1
BC203	—	5.0	Chassis regen SCR control, with heatsink, single voltage	38.0	25.0	1,052	E9	10
NEMA 4X / IP65 Washdown Duty - Line Regenerative SCR								
BC254	1/10 - 1	1/5 - 2	Enclosed regen SCR control, dual voltage	15.0	11.0	673	E9	5
BC254-FBR	1/10 - 1	1/5 - 2	BC254 with Power On/Off switch instead of Start/Stop switch and BC253 Fwd-Brake-Rev Switch factory installed	15.0	11.0	706	E9	5

NOTES:

Chassis mount controls include 5k speed potentiometer.

(a) BC143 Heatsink kit required for higher power ratings. See accessory table at the end of this section for details.

(c) Except for BC203, drives with 230V input can operate 90V motors at reduced performance levels. Refer to Installation & Operation Manual for details.

Line Regenerative DC Control Accessories

Catalog Number	Description	List Price	Mult. Sym.	Apr'x. Shpg. Wgt.
Accessories for BC200, BC201 and BC203				
BC212 (b)	Bipolar signal isolator board	216	E9	1
Accessories for BC204				
BC143	External Heatsink Kit	72	E9	2
BC215 (b)	Bipolar signal isolator board	100	E9	3
BC216	Multispeed board for BC204	77	E9	1
BC218	DIN rail mounting kit	36	E9	1
Accessories for BC254				
BC245 (b)	Bipolar signal isolator for BC254	213	E9	1
BC253	Forward-Stop-Brake-Reverse Switch for BC254	27	E9	1
BC258	Auto-manual Switch for BC254	60	E9	1
BC259	AC Line Switch for BC254	27	E9	5

NOTE:

(b) Voltage following mode only.

NEMA Enclosed DC Control Specifications

Features	Catalog Number															
	BC138		BC139		BC140 or BC140-FBR		BCWD140		BC154		BC160		BC254 or BC254-FBR		BC354	
Enclosure	NEMA 1		NEMA 1		NEMA 1		NEMA 4X		NEMA 4X		NEMA 4X		NEMA 4X		NEMA 4X	
Control Type			Reversible		Reversible		Reversible		Reversible		Reversible		Regenerative		Regenerative	
AC Line Input (VAC 50/60Hz)	115	230	115	230	115	230	115	230	115	230	115	230	115	230	115	230
Max. AC Load Current (RMS)	5.0	5.0	12.0	12.0	15.0	15.0	15.0	15.0	22	22	15	15	11.5	11.5		
Max. AC Load Current (RMS) w/ BC143	—	—	16.0	16.0	—	—	—	—	—	—	—	—	—	—	—	—
DC Armature Voltage Nominal (VDC)	90	180	90-130	180	90	180	90	180	90	180	90	180	90	180	90	180
Max. DC Load Current (ADC)	3.5	3.5	6.0	6.0	10.2	10.2	10.2	10.2	15	15	11	11	7.5	7.5		
Max. DC Load Current (ADC) w/ BC143	—	—	12.0	12.0	—	—	—	—	—	—	—	—	—	—	—	—
Shunt Field Power Supply (VDC)	50/100	100/200	50/100	100/200	50/100	100/200	50/100	100/200	50/100	100/200	50/100	100/200	50/100	100/200	50/100	100/200
Maximum Field Current (ADC)	1.0	1.0	1.0	1.0	1.13	1.13	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
Rated Horsepower Range (SCR motor)	1/100 - 1/3	1/50-3/4	1/100 - 3/4	1/50 - 1 1/2	1/50 - 1	1/25 - 2	1/50 - 1	1/25 - 2	1.5	3	1/10 - 1	1/5 - 2	1/50 - 3/4	1/25 - 1.5		
Rated Horsepower Range (PWM motor)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1/30 - 1	1/20 - 2		
Max. Hp with BC143 Ext. Heat Sink	N/A	N/A	1 Hp	2Hp	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A		
Ambient Temp Range (°C)	0 - 40	0 - 40	0 - 40		0 - 40		0 - 40		0 - 45		0 - 40		0 - 40			
Ambient Temp Range w/ BC143 (°C)	N/A	N/A	0 - 50		N/A		N/A		N/A		N/A		N/A			
Speed Range (Motor May Be 20: 1 Constant Torque)	50:1	50:1	50:1		50:1		50:1		50:1		50:1		50:1			
Adjustable Accel / Decel Time (sec)	0.2 - 10	0.2 - 10	0.2 - 10		0.1 - 15		0.1 - 15		0.1 - 15		0.2 - 15		0.5 - 10			
Min. Speed Adjustable Range (% full speed)	0 - 30	0 - 30	0 - 30		0 - 30		0 - 30		0 - 30		N/A		N/A			
Max. Speed Adjustable Range (% full speed)	50 - 110	50 - 110	50 - 110		60 - 140		60 - 140		50 - 110		40 - 110		50 - 140			
Current Limit Adjustable Range (%)	0 - 200	0 - 200	0 - 200		0 - 200		0 - 200		0 - 180		0 - 200		0 - 200			
Adjustable Current Limit and Trip Out Type	No	No	No		Timed or Non-Timed		Timed or Non-Timed		Timed or Non-Timed		Timed or Non-Timed		Timed or Non-Timed			
Control Of Speed or Torque	Speed	Speed	Speed		Speed or Torque		Speed or Torque		Speed or Torque		Speed or Torque		Speed or Torque			
IR Compensation Adjustable (VDC)	0 - 24	0 - 24	0 - 24	0 - 48	0 - 15	0 - 30	0 - 15	0 - 30	0 - 30		0 - 15	0 - 30	0 - 15	0 - 30	0 - 15	0 - 30
Tachometer Feedback Input	No	No	No		Yes		Yes		Yes		Yes		Yes			
Plug-In Horsepower Resistor ®	Required	Required	Required		N/A		N/A		N/A		N/A		N/A			
UL & cUL Listing, CE	Yes	Yes	Yes		Yes		Yes		Yes		Yes		Yes			
AC Line Fuse	Included	Included	Included		External		External		External		External		External			
DC Armature Fuse	Included with Hp Resistor	Included with Hp Resistor	Included with Hp Resistor		Not supplied with control		Not supplied with control		External		External		External			
Options																
AC Line Switch	Standard	Standard	Standard		Opt-BC159		Opt - BC159		No		Opt - BC159		Opt - BC159			
Forward/Brake/Reverse Switch			(BC140)								(BC254)					
Mechanical	No	No	Opt - BC144		Standard		Opt - BC156		No		Opt - BC253		Opt - BC156			
Electronic	No	No	No		Opt - BC153		Opt - BC153		No		No		Opt - BC153			
Run/Jog Switch	No	No	No		Standard		Opt-BC157		Opt-BC157		No		Opt - BC157			
Input Signal:			External Mount		Internal Mount		Internal Mount		Internal Mount		Internal Mount		Internal Mount			
Current (1-5, 4-20, 20-50mA)	No	No	Opt - BC145		Opt - BC145		Opt - BC145		Opt - BC145		Opt - BC145		No		Opt - BC145	
Input Signal:			Opt - BC145		0-5, 0-10 VDC		0-5, 0-10 VDC		0-5, 0-10 VDC		0-5, 0-10 VDC		0-5, 0-10 VDC		0-5, 0-10 VDC	
Voltage (0-25, 0-120, 0-550 VDC)	No	No	Opt - BC145		input standard		input standard		input standard		input standard		input standard		input standard	
Electrical Connection To Control Barrier Terminal Block	Standard	Standard	Standard		Standard		Standard		Standard		Standard		Standard			
Current Sensing Relay/Overload Protector	No	No	No		Standard		Standard		Standard		Standard		Standard			
AC Line Filter for CE	Opt - BC24-LF	Opt - BC24-LF	Opt-BC24-LF		Opt-BC24-LF		Opt-BC24-LF		Opt-BC24-LF		Opt-BC24-LF		Opt-BC24-LF			

Definite Purpose Motors

Unit Handling Motors

Brake Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Gearmotors and Gear Products

Motor Accessories

Grinders

Chassis Mount DC Control Specifications

Features	Catalog Number											
	BC141	BC142	BC142-5 & BC142-6		BC155	BC204		BC200		BC201		BC203
Enclosure	Chassis	Chassis	Chassis		Chassis	Chassis		Chassis		Chassis		Chassis
Control Type	Reversible	Reversible	Reversible		Reversible	Regenerative		Regenerative		Regenerative		Regenerative
AC Line Input (VAC 50/60Hz)	115	230	115	230	230	115	230	115	230	115	230	230
Max. AC Load Current (RMS)	12.0	12.0	12.0	12.0	38.0	12.0	12.0	16.0	16.0	24.0	24.0	38.0
Max. AC Load Current (RMS) w/ BC143	24.0	24.0	24.0	24.0	N/A	16.0	16.0	N/A	N/A	N/A	N/A	N/A
DC Armature Voltage Nominal (VDC)	90	180	90	180	180	90	180	90	180	90	180	180
Max. DC Load Current (ADC)	8.0	8.0	8.0	8.0	26.0	8.0	8.0	11.0	11.0	16.0	16.0	25.0
Max. DC Load Current (ADC) w/ BC143	16.0	16.0	16.0	16.0	N/A	11.0	11.0	N/A	N/A	N/A	N/A	N/A
Shunt Field Power Supply (VDC)	50/100	100/200	50/100	100/200	100/200	50/100	100/200	50/100	100/200	50/100	100/200	100/200
Maximum Field Current (ADC)	1.13	1.13	1.13	1.13	2.5	1.0	1.0	3.0	3.0	3.0	3.0	3.0
Rated Horsepower Range	1/100 - 0.75	1/100 - 1.5	1/100 - 0.75	1/100 - 1.5	5	1/6 - 0.75	1/3 - 1	1/4 - 1	1/2 - 2	1/8 - 1.5	1/4 - 3	5
Max. Hp with BC143 Ext. Heat Sink	1/100 - 1.5	1/50 - 3	1/100 - 1.5	1/50 - 3	N/A	1/6 - 1.5	1/3 - 2	N/A		N/A		N/A
Ambient Temp Range (°C)	0 - 40	0 - 40	0 - 40		0 - 40	0 - 40		0 - 45 (horiz) 0 - 50 (vert)		0 - 45 (horiz) 0 - 50 (vert)		0 - 40
Ambient Temp Range w/ BC143 (°C)	0 - 40	0 - 40	0 - 40		N/A	0 - 40		N/A		N/A		N/A
Speed Range (Motor may be 20:1 Constant Torque)	50:1	50:1	50:1		50:1	50:1		50:1		50:1		50:1
Adjustable Accel / Decel Time (sec)	0.2 - 10	0.2 - 10	0.2 - 10		1 - 10	0.1 - 15		0.1 - 15		0.1 - 15		0.5 - 10
Min. Speed Adjustable Range (% full speed)	0 - 30	0 - 30	0 - 30		0 - 30	N/A		N/A		N/A		0 - 30
Max. Speed Adjustable Range (% full speed)	50 - 110	50 - 110	50 - 110		50 - 110	50 - 110		70 - 110		70 - 110		50 - 140
Current Limit Adjustable Range (%)	0 - 200	0 - 200	0 - 200		0 - 200	0 - 175		1 - 15		1 - 15		0 - 200
Adjustable Current Limit and Tripout Type	Non Timed	Non Timed	Non Timed		Non Timed	Non Timed		Timed		Timed		Timed
Control of Speed or Torque	Speed	Speed	Speed		Speed or Torque	Speed or Torque		Speed or Torque		Speed or Torque		Speed
IR Compensation Adjustment	Yes	Yes	Yes		Yes	Yes		Yes		Yes		Yes
Tachometer Feedback Input	Yes	Yes	Yes		Yes	Yes		Yes		Yes		Yes
Plug-in Horsepower Resistor®	Required	Required	Required		N/A	N/A		N/A		N/A		N/A
UL & cUL Listing, CE	Yes	Yes	Yes		Yes	Yes		Yes		Yes		Yes
AC Line Fuse	Included	Included	Included		External	External		Included		Included		External
DC Armature Fuse	Included with Hp Resistor	Included with Hp Resistor	Included with Hp Resistor		Included with Hp Resistor	External		Included		Included		External

Options

Input Signal: Current (4-20mA)	Plug on Mount Opt - BC152	Plug on Mount Opt - BC152	External Mount Opt - BC145	None	None	None	None
Input Signal: Current (1-5, 4-20, 20-50mA)	External Mount Opt - BC145	External Mount Opt - BC145					
Input Signal: Voltage (must be isolated)	0-9 VDC Standard	0-9 VDC Standard	0 to 9 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard
Input Signal: Voltage (0-5, 0-10, 1-100, or 0-200 VDC)	Plug on Mount Opt - BC152	Plug on Mount Opt - BC152	External Mount Opt - BC145	±5 to ±25 VDC Opt - BC215	±5 to ±250 VDC Opt - BC212	±5 to ±250 VDC Opt - BC212	±5 to ±250 VDC Opt - BC212
Input Signal: Voltage (0-25, 0-120, or 0-550 VDC)	External Mount Opt - BC145	External Mount Opt - BC145					
Push-On Quick Connects Barrier Terminal Block	Standard Opt - BC147	Standard Opt - BC147	None	None	None	None	None
Regenerative Accel / Decel Board	None	None	None	None	Opt - BC211	Opt - BC211	Opt - BC211
AC Line Filter for CE	Opt - BC24-LF	Opt - BC24-LF	Opt - BC24-LF	Opt - BC24-LF	Opt - BC24-LF	Opt - BC24-LF	Opt - BC24-LF

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