

### Subfractional Permanent Magnet DC Motor - TENV, Rigid Base



### 1/50 thru 1/4 Hp

**Applications:** General purpose including conveyors, material handling equipment and packaging machinery.

**Features:** High quality ball bearing motors with precision machined die cast aluminum or steel housings. Dynamically balanced for smooth, vibration-free operation.

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	294	DS	2308P	4	20,60
1/25	1725	90	0.5	AP232001	322	DS	2314P	5	20,60
1/15	1800	90	0.8	AP233001	346	DS	2318P	5	20,60
		180	0.4	AP233021	346	DS	2318P	5	20,60
1/8	1725	90	1.3	AP7401	484	DS	2424P	12	20,60
		180	0.7	AP7421	484	DS	2424P	12	20,60
1/4	3450	90	2.5	AP7402	484	DS	2424P	12	20,60
		180	1.3	AP7422	484	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 Permanent Magnet Motor - TENV and TEFC, C-Face with Base



### 1/4 thru 5 Hp

### NEMA 56C thru 1810ATC

**Applications:** Conveyors, mixers, packaging machinery.

**Features:** NEMA C-face with removable base. Tach adaptable. Class F insulation, double sealed ball bearings. 20:1 constant torque speed range. UL and CSA recognized. 1/4 - 1/2 Hp motors are TENV, all others are TEFC. No dual mounting base holes on 1/4 - 1/2 Hp.

Hp	Base Speed	NEMA Frame	Voltage D.C.	Full Load Amperage	Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)	Reliance M/N
			Arm.	Arm.							
1/4	1750	56C	90	2.5	TENV	CDP3310	695	K	24	20,60	T56S1001
			180	1.25	TENV	CDP3306	695	K	23	20,60	
1/3	1750	56C	90	3.2	TENV	CDP3320	733	K	27	20,60	T56S1003
			180	1.6	TENV	CDP3316	733	K	27	20,60	
1/2	1750	56C	90	4.8	TENV	CDP3330	820	K	32	20,60	T56S1005
			180	2.5	TENV	CDP3326	820	K	31	20,60	T56S1027
1/2	2500	56C	90	5	TENV	CDP3335	733	K	26	20,60	T56S1006
			90	5	TENV	CDP3335	733	K	26	20,60	T56S1006
3/4	1750	56C	90	7.6	TEFC	CDP3440	996	K	38	20	T56S1009
			180	3.7	TEFC	CDP3436	996	K	38	20	T56S1029
3/4	2500	56C	90	7.5	TEFC	CDP3443	881	K	36	20	
			90	7.5	TEFC	CDP3443	881	K	36	20	
1	1750	56C	90	10	TEFC	CDP3445	1,211	K	44	20	T56S1011
			180	5	TEFC	CDP3455	1,211	K	44	20	T56S1013
1	2500	56C	90	9.7	TEFC	CDP3450	996	K	38	20	
			180	4.85	TEFC	CDP3460	996	K	38	20	T56S1012
1 1/2	1750	145TC	180	7.7	TEFC	CDP3575	2,231	L1	65	20	
			180	7	TEFC	CDP3580	1,941	L1	53	20	
2	1750	145TC	180	9.6	TEFC	CDP3585	2,662	L1	74	20	
			180	10	TEFC	CDP3590	2,231	L1	66	8	
3	1750	182TC	180	14	TEFC	CDP3603	3,278	L1	112	20	
			180	14	TEFC	CDP3604	3,260	L1	112	20	
5	1750	1810ATC	180	21.6	TEFC	CDP3605	5,564	L1	161	20	

**NOTE:** See Tach Generators on page 254 and Mounting Kits on page 255. (a) See notes on inside back flap.

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



**1/4 thru 5 Hp**

**NEMA 56C thru 1810ATC**

**Applications:** Conveyors and metering pumps (precise speed regulation).

**Features:** Provides an integral 50 VDC per 1000 RPM precision tachometer for closed loop drive system. Class F insulation. 20:1 constant torque speed range with NEMA Type K control. 1/4 - 1/2 motors are TENV, all others are TEFC.

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	CDPT3310	1,984	K	27	20,60
			180	1.25	TENV	CDPT3306	1,984	K	27	20,60
1/3	1750	56C	90	3.2	TENV	CDPT3320	2,024	K	30	20,60
			180	1.6	TENV	CDPT3316	2,024	K	30	20,60
1/2	1750	56C	90	4.8	TENV	CDPT3330	2,151	K	35	20,60
			180	2.5	TENV	CDPT3326	2,151	K	36	20,60
3/4	1750	56C	90	7.6	TEFC	CDPT3440	2,275	K	44	20
			180	3.7	TEFC	CDPT3436	2,275	K	45	20
1	1750	56C	90	10	TEFC	CDPT3445	2,538	K	50	20
			180	5	TEFC	CDPT3455	2,538	K	50	20
1 1/2	1750	143TC	180	7.7	TEFC	CDPT3575	3,523	L1	71	20
2	1750	143TC	180	9.6	TEFC	CDPT3585	3,953	L1	79	20
3	1750	182ATC	180	14	TEFC	CDPT3603	4,598	L1	122	20
5	1750	1810ATC	180	24.5	TEFC	CDPT3605	6,878	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**

**NEMA 56C thru 145TC**

**Applications:** Conveyors, feeders, and pumps (adjustable speed and constant torque for hazardous locations).

**Features:** NEMA C-Face with welded on 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. Not tach adaptable.

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.	Arm.							
1/4	1750	56C	90	2.7	CDPX3410	②	T3C	1,907	K	38	20, 59
			180	1.3	CDPX3406	②	T3C	1,907	K	38	20, 59
1/3	1750	56C	90	3.6	CDPX3420	②	T3C	2,396	K	43	20, 59
			180	1.7	CDPX3416	②	T3C	2,396	K	44	20, 59
1/2	1750	56C	90	5.2	CDPX3430	②	T3C	2,705	K	46	20, 59
			180	2.5	CDPX3426	②	T3C	2,705	K	46	20, 59
3/4	1750	56C	90	7	CDPX3440	②	T3C	3,344	K	51	20, 59
			180	3.5	CDPX3436	②	T3C	3,344	K	51	20, 59
1	1750	56C	90	9.6	CDPX3545	②	T3C	4,454	K	73	20, 59
			180	4.9	CDPX3555	②	T3C	4,454	K	71	20, 59
1 1/2	1750	145TC	180	7.1	CDPX3575	②	T3C	4,761	L1	81	20, 59

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 Sales and Support, Contact Walker EMD • www.walkeremd.com • Toll-free: (800) 876-4444 • Tel: (203) 426-7700 • Fax: (203) 426-7800

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes

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

1/4 thru 5 Hp

NEMA 56C thru 1810ATC

**Applications:** Food processing conveyors and feeders exposed to high pressure wash down.

**Features:** Moisture sealant on bolt heads between frame and endplates, neoprene gasketed conduit box. Double sealed ball bearings. Forsheda® running contact v-ring slinger. Stainless steel shaft. Electrostatic epoxy paint coating. Class F insulation. 20:1 constant torque speed range. Tach adaptable. 3300P motors are TENV, all others are TEFC.



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	900	K	25	20,60
			180	1.25	TENV	GDPWD3306	900	K	24	20,60
1/3	1750	56C	90	3.2	TENV	GDPWD3320	950	K	27	20,60
			180	1.6	TENV	GDPWD3316	950	K	27	20,60
1/2	1750	56C	90	4.8	TENV	GDPWD3330	1,068	K	32	20,60
			180	2.5	TENV	GDPWD3326	1,068	K	32	20,60
3/4	1750	56C	90	7.6	TEFC	GDPWD3440	1,289	K	38	20
			180	3.7	TEFC	GDPWD3436	1,289	K	38	20
1	1750	56C	90	10	TEFC	GDPWD3445	1,572	K	44	20
			180	5	TEFC	GDPWD3455	1,572	K	44	20
1 1/2	1750	145TC	180	7.7	TEFC	GDPWD3575	3,008	L1	66	20
2	1750	145TC	180	9.6	TEFC	GDPWD3585	3,590	L1	75	20
3	1750	182TC	180	14	TEFC	GDPWD3603	4,595	L1	116	20
5	1750	1810ATC	180	24.5	TEFC	GDPWD3605	7,783	L1	157	20

**NOTE:** See Tach Generators on page 254. Mounting kits on page 255.

(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

NEMA 56C

**Applications:** Food processing, packaging exposed to high pressure washdown with caustic solutions.

**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. Special processed endplates. 300 series stainless steel motor frame, base, shaft and hardware. No exterior paint. Not tach adaptable.



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	1,077	K	29	20
			180	1.3	CDPSWD3406	1,077	K	28	20
1/2	1750	56C	90	5.2	CDPSWD3430	1,276	K	37	20
			180	2.5	CDPSWD3426	1,276	K	38	20
1	1750	56C	90	9.6	CDPSWD3545	1,886	K	63	20
			180	4.9	CDPSWD3555	1,886	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**

**IEC D63 thru D112D**

**Applications:** Metric SCR Drive Motor replacement.

**Features:** Metric Flange or C-Face per IEC 60072-1 Standards. Bolt on non-metric base. Class F insulation. Tach adaptable except type 15kW. 20:1 constant torque speed range. Conforms to IEC 60034-1.



kW/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.						
<b>B5 Flange</b>										
.15/.20	1800	D63D	180	1.1	TENV	<b>VP7424D</b>	485	DS	10	60
.18/.25	1750	D71D	180	1.25	TENV	<b>VP3311D</b>	695	K	23	20,60
.25/.33	1750	D71D	180	1.6	TENV	<b>VP3316D</b>	733	K	27	20,60
.37/.5	1750	D71D	180	2.5	TENV	<b>VP3326D</b>	820	K	31	20,60
	3000	D71D	180	2.5	TEFC	<b>VP3428D</b>	850	K	33	20
.57/.75	1750	D80D	180	3.7	TEFC	<b>VP3436D</b>	996	K	40	20
	3000	D80D	180	3.6	TEFC	<b>VP3439D</b>	881	K	37	20
.75/1	1750	D80D	180	5	TEFC	<b>VP3455D</b>	1,211	K	46	20
	3000	D80D	180	5.1	TEFC	<b>VP3458D</b>	996	K	41	20
1.1/1.5	3000	D90D	180	7.7	TEFC	<b>VP3468D</b>	1,110	L1	47	20
	1750	D90D	180	7.7	TEFC	<b>VP3575D</b>	2,244	L1	71	20
1.5/2	1750	D90D	180	9.6	TEFC	<b>VP3585D</b>	2,677	L1	78	20
	3000	D90D	180	10	TEFC	<b>VP3588D</b>	2,244	L1	69	20
2.2/3	1750	D112D	180	14	TEFC	<b>VP3603D</b>	3,294	L1	121	20
3.7/5	1750	D112D	180	24.5	TEFC	<b>VP3605D</b>	5,592	L1	166	20
<b>B14 Face</b>										
.15/.20	1800	D63D	180	1.1	TENV	<b>VP7424-14</b>	485	DS	10	60
.18/.25	1750	D71C	180	1.4	TEFC	<b>VP3411-14</b>	781	K	30	20
.25/.33	1750	D71C	180	1.7	TEFC	<b>VP3416-14</b>	832	K	31	20
1.37/.50	3000	D71C	180	2.5	TEFC	<b>VP3428-14</b>	850	K	31	20
	1750	D71C	180	2.5	TEFC	<b>VP3426-14</b>	881	K	37	20
.56/.75	3000	D80C	180	3.6	TEFC	<b>VP3439-14</b>	881	K	35	20
	1750	D80C	180	3.7	TEFC	<b>VP3436-14</b>	996	K	40	20
.75/1	3000	D80C	180	5.1	TEFC	<b>VP3458-14</b>	996	K	38	20
	1750	D80C	180	5	TEFC	<b>VP3455-14</b>	1,211	K	45	20
1.1/1.5	3000	D80C	180	7.7	TEFC	<b>VP3468-14</b>	1,110	L1	43	20
	1750	D90C	180	7.7	TEFC	<b>VP3575-14</b>	2,244	L1	73	20
1.5/2	3000	D90C	180	10.0	TEFC	<b>VP3588-14</b>	2,244	L1	70	20
	1750	D90C	180	9.6	TEFC	<b>VP3585-14</b>	2,677	L1	80	20

**NOTE:** Above motors D71 and larger with B5 flange, fitted with oil seal. Catalog numbers VP7424D and VP7424-14 are not tach adaptable.

Tach Generators are shown on page 254. Tach Mounting Kits are shown on page 255.

(a) See notes on inside back flap.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes

### Low Voltage Permanent Magnet Motor - TENV and TEFC

1/4 thru 1 Hp

NEMA 56C

**Applications:** Battery operation for portable pumps, fans, augers, winches and lifts.

**Features:** NEMA C-face, Class F insulation, double sealed ball bearings. Top-mounted terminal studs for power connection on ratings 40-amps and up. Not tach adaptable. 1/4 - 1/2 Hp are TENV, 3/4 - 1 Hp are TEFC.



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	747	K	23	20,60
			24	10.6	CDP3410-V24	708	K	23	20,60
1/3	1800	56C	12	28.6	CDP3420-V12	820	K	31	20,60
			24	13.6	CDP3420-V24	782	K	31	20,60
1/2	1800	56C	12	40	CDP3430-V12	850	K	37	20,60
			24	19.6	CDP3430-V24	810	K	35	20,60
3/4	1800	56C	12	66	CDP3440-V12	1,220	K	42	20
		56CZ	24	29.4	CDP3440-V24	845	K	41	20
1	1800	56C	12	85.6	CDP3445-V12	1,765	K	45	20
			24	34.2	CDP3445-V24	1,757	K	46	20

(a) See notes on inside back flap.

### DC Power Motor - TEFC, Rigid Base

1/3 thru 1 1/2 Hp

NEMA 56 thru 184

**Applications:** Cranes, hoists, conveyors, augers and marine duty DC applications. Powered from generators or batteries.

**Features:** 20% Compound Wound. Weather proof, meets IEEE 45 specifications. Suitable for mounting in any position. Continuous duty. Easy access brushes. Not tach adaptable.



Hp	Speed	NEMA Frame	Rated Current	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
<b>115 VDC</b>								
1/3	1750	56	3.2	D1151	1,358	K	23	20
1/2	1750	56	4.8	D1152	1,452	K	29	20
3/4	1750	56	6.6	D1153	1,705	K	34	20
1	1750	56	8	D1154	2,005	K	62	20
<b>230 VDC</b>								
1/3	1750	56	1.7	D2301	1,358	K	41	20
1/2	1750	56	2.1	D2302	1,455	K	29	20
3/4	1750	56	3.3	D2303	1,705	K	34	20
1	1750	56	4	D2304	2,005	K	62	20
1 1/2	1750	184	6.1	D2305	3,521	L1	84	20

**NOTE:** Not for SCR control applications. Base welded on 3513D type only. Not tach adaptable.

(a) See notes on inside back flap.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes



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

**1/4 thru 3 Hp**

**NEMA 56C thru 215C**

Farm Duty  
Motors

Definite Purpose  
Motors

Unit Handling  
Motors

Brake Motors

200 & 575 Volt  
Motors

IEC Frame  
Motors

50 Hertz  
Motors

Inverter/Vector  
Motors & Controls

DC Motors  
and Controls

Soft Starters &  
Dynamic Brakes



**Applications:** Conveyors, printing, textile equipment, machine tools (adjustable speeds with constant torque).

**Features:** Designed for use with NEMA Type K SCR control, 20:1 constant torque speed range (except where noted). NEMA C-face and removable base. NEMA 182 frame and larger have a normally closed thermostat on the field winding. Class F insulation, 1.0 service factor.

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	699	K	23	
1/3	1750	56C	90	100/50	3.4	.4/.8	CD3433	764	K	24	
			180	200/100	1.9	.21/.42	CD3434	764	K	24	
			90	100/50	3.7	.5/1	CD5333 (b)(c)	1,101	K	31	
1/2	1750	56C	90	100/50	5.7	.5/1	CD3450	868	K	29	
			180	200/100	2.6	.25/.5	CD3451	868	K	29	
			90	100/50	5	.44/.88	CD5350 (c)	1,216	K	38	
3/4	1750	56C	90	100/50	7.8	.6/1.2	CD3475	1,080	K	34	
			180	200/100	3.9	.3/.6	CD3476	1,080	K	34	
			90	100/50	8	.6/1.2	CD5375 (c)	1,432	K	45	
1	1750	56C	180	200/100	5	.3/.6	CD5318 (c)	1,525	K	54	
			90	100/50	10	.6/1.2	CD5319 (c)	1,525	K	53	
		182C	180	200/100	5	.25/.5	CD6218	2,037	L1	65	
			90	100/50	9.6	.55/1.1	CD6219	2,037	L1	66	
1 1/2	1750	182C	180	200/100	7.5	.25/.5	CD6215	2,281	L1	84	
2	1750	182C	180	200/100	9.5	.4/.8	CD6202	2,698	L1	98	
		213C	180	200/100	9.5	.4/.8	CD7502	4,734	L1	105	
3	1750	184TC	180	200/100	14.7	.6/1.2	CD6203	3,064	L1	135	8, 73
		215C	180	200/100	14.7	.6/1.2	CD7503	5,035	L1	137	

**NOTE:** See Tach Generators on page 254 and Mounting Kits on page 255. Tach Mounting Kits are not available for explosion-proof motors.

(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**

**NEMA 182CZ thru 182C**

**Applications:** Conveyors, printing, textile equipment, machine tools (adjustable speeds with constant torque).

**Features:** Designed for use with NEMA Type K SCR control, 20:1 constant torque speed range. Normally closed thermostat on the field winding. Class F insulation, 1.0 service factor. UL and CSA Division 1, Class I, Group D, Class II, Group F & G.

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							
<b>Explosion-Proof - Continuous Duty - Division 1, Class I, Group D &amp; Class II, Group F &amp; G - 1.0 S.F.</b>													
1/2	1750	182CZ	90	100/50	4.9	.55/1.1	CDX1850 (b)	②	T3B	2,768	L1	100	
3/4	1750	182CZ	90	100/50	7	.55/1.1	CDX1875 (b)	②	T3B	3,666	L1	100	
1	1750	182CZ	180	200/100	5	.25/.5	CDX2001 (b)	②	T3B	4,560	L1	102	
		182C	180	200/100	5	.25/.5	CDX7100	②	T3B	3,785	L1	102	
1 1/2	1750	182C	180	200/100	7.5	.25/.5	CDX7150	②	T3B	5,012	L1	121	
2	1750	182C	180	200/100	9.5	.4/.8	CDX7200 (b)	②	T3B	5,629	L1	135	

(a) See notes on inside back flap. ② Class I, Group D; Class II, Group F&G

(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](http://www.baldor.com) for details.

**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.

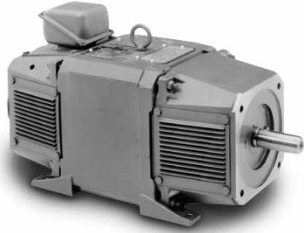
### RPM III DC Shunt Wound SCR Drive Motors, 180V Armature Power Code K

1.5 thru 5 Hp

NEMA 189ATY thru 2112ATCZ

**Applications:** Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

**Features:** Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-3 mounting. Tach adaptable with thermostat.



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)								
1.5	1750	DC189ATY (c)	180	100/200	7.2	0.721	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	1.21	TENV	CD1803R	9,906	N2	212	T18R1102	STR	413336-1R
		DC189ATY (c)(e)	180	100/200	14.8	0.946	DPG	D1803R	6,040	N2	165	T18R1118	STR	413336-1R
		DC189ATCZ (d)(e)	180	100/200	14.8	0.946	DPG	CDD1803R	6,040	N2	160	T18R1120	STR	413336-1R
5	1750	DC1810ATCZ (d)(e)	180	100/200	24	1.67	DPG	CD1805R	7,266	N2	175	T18R1105	STR	413336-1R
		DC2112ATCZ (d)	180	100/200	23	1.3	TENV	CD2105R	14,534	N2	355	T21S1101	STR	413336-1R

**NOTE:** Encoder and tachometer kits on page 248.

- (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

NEMA 1811ATCZ thru 2113ATCZ

**Applications:** Textile range drives, roofing machines, tube mills, and similar applications.

**Features:** Range drive motors have matched IR drops within approximately 5 volts and good regulation characteristics out to the maximum field weakened speed of 2300 rpm. Capable of operation at 25% base speed with 67% armature current and motor field pre-weakened to 2100 rpm. Specially designed for use on multi-motor drives operating on a common voltage power supply such as textile range drives, roofing machines, tube mills, etc. F-1 mounting. Tach adaptable with thermostat.

\* 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 the vertical.



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	0.994	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
7.5	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	2.18	SPG	D2010R-2	16,661	N2	346	T21S1001	STAB	417708-21

**NOTE:** Encoder and tachometer kits on page 248.

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

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

**5 thru 50 Hp**

**NEMA 1812ATZ thru 3212ATZ**

**Applications:** Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

**Features:** Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-1 mounting unless otherwise specified. Tach adaptable with thermostat.



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	1.79	<b>D2505R</b>	13,081	N2	251	87	T18R1005 (d)	STAB	417709-17
		SC2113ATZ	500	150/300	9	1.05	<b>D5505R</b>	15,311	N2	340	87	T21S201 (c)	STAB	417708.21
7.5	1750/2300	SC2113ATZ	240	150	27	3.26	<b>D2507R</b>	17,059	N2	359	87	T21S301	STAB	417709-65
		MC2113ATZ	500	150/300	13.5	1.41	<b>D5507R</b>	17,059	N2	360	87	T21S302 (d)	STAB	417709-65
10	1750/2300	MC2113ATZ	240	150	35.5	3.13	<b>D2510R</b>	18,820	N2	379	87	T21S303	STAB	417709-65
		MC2113ATZ	500	150/300	17.5	1.55	<b>D5510R</b>	18,820	N2	405	87	T21S304	STAB	417709-65
15	1750/2300	SC2512ATZ	240	150	53.5	2.17	<b>D2515R</b>	28,213	N2	560	6,87	T25S301	STAB	417709-66
		SC2512ATZ	500	150/300	25.6	1.71	<b>D5515R</b>	28,213	N2	547	87	T25S302	STAB	417709-66
20	1750/2300	LC2512ATZ	240	150	71	4.14	<b>D2520R</b>	30,464	N2	640	87	T25S303	STAB	417709-66
		LC2512ATZ	500	150/300	33	2.05	<b>D5520R</b>	30,464	N2	640	87	T25S304	STAB	417709-66
25	1750/2300	MC2812ATZ	240	150	87	4.05	<b>D2525R</b>	43,228	N2	805	87	T28S301	STAB	417709-67
		MC2812ATZ	500	150/300	41	2.23	<b>D5525R</b>	43,228	N2	815	86,87	T28S302	STAB	417709-67
30	1750/2300	LC2812ATZ	500	150/300	50	1.75	<b>D5530R</b>	48,066	N2	895	87	T28S303	STAB	417709-67
40	1750/2300	MC3212ATZ	500	150/300	65	1.82	<b>D5540R</b>	65,449	N2	1120	87	T32S301	STAB	417709-68
50	1750/2300	LC3212ATZ	500	150/300	84	1.97	<b>D5550R</b>	69,186	N2	1270	87	T32S302	STAB	417709-68

**NOTE:** Encoder and tachometer kits on page 248.

- (a) Field amps at 25°C
- (b) Field amps for high voltage connection
- (c) TENV enclosure
- (d) Power Code D

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes



### RPM III Wound Field SCR 10 thru 500 Hp

### NEMA 2113ATZ thru 4414ATZ

### Drive DPG-FV Motors, 240V & 500V Armature, Power Code C

**Applications:** Metals, printing, extruders, cranes, conveyors, machine tools

**Features:** Laminated square frame for improved commutation. Tach adaptable with thermostat. F1 mount unless otherwise specified.

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)									
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	
		MC2113ATZ	500	300	37	2.23	D5020RS-BV	20,894	N2	370 (c)	101,102	T21T1344	STAB	417708-21	
25	1750/2300	MC2113ATZ	240	150	96	8.43	D2025R-BV	18,317	N2	370 (d)	103	T21T1371	STR	417708-21	
		MC2113ATZ	500	300	46	3.33	D5025R-BV	18,317	N2	410	6,104	T21T1351	STR	417708-21	
		LC2113ATZ	500	300	43	3.08	D5025RS-BV	22,483	N2	472 (c)	101,102	T21T1345	STAB	417708-21	
30	1750/2300	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	1150/1800	LC2115ATZ	500	300	54	3.104	D5130R-BV	26,587	N2	480	104	T21T1378	STR	417708-21	
	1750/2300	LC2115ATZ	240	150	146	5.63	D2040R-BV	26,587	N2	480	6,103	T21T1380	STR	417708-21	
		MC2115ATZ	500	300	69	4.48	D5040R-BV	23,683	N2	501	103	T21T2353	STR	417708-21	
		MC2512ATZ	500	300	68.5	2.88	D5040RS-BV	31,738	N2	570 (c)	6,101,102	T25T1344	STAB	417708-21	
50	1750/2100	LC2512ATZ	500	300	72	5.27	D5140R-BV	29,962	N2	640	104	T25T1355	STR	417708-21	
		LC2115ATZ	500	300	87	3.104	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	1150/1900	C2514ATZ	500	300	87	4.06	D5150R-BV	34,634	N2	695	6,104	T25T1359	STR	417708-21	
		LC2512ATZ	500	300	102	4.6	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	1150/1900	C2515ATZ	500	300	102	5.17	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	3.62	D5075RS-BV	50,462	N2	885 (c)	6,101,102	T28T1327	STAB	417708-26	
100	1150/2000	C2815ATZ	500	300	125	4.14	D5175R-BV	56,918	N2	1125	6,103	T28T1342	STR	417708-26	
		C2515ATZ	500	300	167	6.7	D5100R-BV	39,995	N2	890	103	T25T2350	STR	417708-21	
		MC3212ATZ	500	300	162	3.33	D50100RS-BV	67,915	N2	1210 (c)	6,101,102	T32T1314	STAB	417708-26	
125	1150/1850	C2815ATZ	500	300	168	4.14	D51100R-BV	56,918	N2	1239	6,104	T28T1344	STR	417708-26	
		C2813ATZ	500	300	204	6.103	D50125R-BV	49,873	N2	997	6,103	T28T1333	STR	417708-26	
		UC2813ATZ	500	300	204	6.103	D50125UR-BV	51,108	N2	945	5,6,103	T28T1349	STR	417708-26	
150	1750/2000	LC3212ATZ	500	300	203	4.4	D50125RS-BV	71,773	N2	1290 (c)	6,101,102	T32T1318	STAB	417708-26	
		UC3214ATZ	500	300	204	8.36	D51125RR-BV	73,535	N2	1475	5,6,103	T32T1327	STR	417708-26	
	1750/2000	C2815ATZ	500	300	245	9.45	D50150R-BV	56,918	N2	1125	6,103	T28T1334	STR	417708-26	
		C2815ATZ	500	300	245	9.45	D50150RE-BV	56,918	N2	1125	6,103	T28T1352	STR	417708-26	
		UC2815ATZ	500	300	245	9.45	D50150UR-BV	58,152	N2	1265	5,6,103	T28T1350	STR	417708-26	
		UC2815ATZ	500	300	245	9.45	D50150URE-BV	58,152	N2	1255	5,6,103	T28T1351	STR	417708-26	
	1750/2100	MC3612ATZ	500	300	240	4.8	D50150RS-BV	88,976	N2	1630 (c)	6,105	T36S1313	STAB	417708-26	
	1150/2000	ULC3612ATZ	500	300	249	7.29	D51150RR-BV	89,964	N2	1850	5,6,104	T36S1323	STR	417708-26	
	200	1750/2100	UC3214ATZ	500	300	322	8.36	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
250	1150/2000	C3613ATZ	500	300	323	10.7	D51200R-BV	106,410	N2	1850	6,104	T36S1325	STR	417708-26	
		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	
300	1150/2000	MC4013ATZ	500	300	406	10.7	D51250R-BV	145,465	N2	2735	6,104	T40S1317	STR	417708-26	
		LC3613ATZ	500	300	478	12.5	D50300R-BV	113,818	N2	2190	6,104	T36S1319	STR	417708-26	
		MC4013ATZ	500	300	478	6.5	D50300RS-BV	150,442	N2	2815 (c)	6,105	T40S1309	STAB	417708-26	
400	1750/2000	LC4013ATZ	500	300	485	13.2	D51300R-BV	163,196	N2	3015	6,104	T40S1320	STR	417708-26	
		MC4013ATZ	500	300	643	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	
500	1150/1600	C4413ATZ	500	300	644	13	D51400R-BV	201,741	N2	3830	6,101,104	T44T1304	STR	417708-156	
		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		

**NOTE:** Encoder and tachometer kits on page 248.

(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**

**NEMA 189ATCZ thru 2812ATZ**

**Applications:** Metals, paper, web processes, extruders, cranes, conveyors, packaging, printing, machine tools.

**Features:** Unique laminated square frame for improved commutation on rectified power supplies. The square configuration allows for increased rating per frame size. High limit thermostat. Provision for adding adapter mounted feedback device. Class F rated insulation system. Service Line brushes with convenient wear indicating reference lines. PLS™ (Positive Lubrication System) for longer bearing and motor life. F-1 mounting unless otherwise specified.

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	<b>D2003R</b>	6,431	N2	161	80,83	T18R1127	STAB	413336-1R
		C1811ATZ	500	300	5.2	0.741	<b>D5003R</b>	9,967	N2	197	80	T18R1333 (d)	STR	413336-1R
5	1750/2300	C1811ATZ	240	150	19.2	1.77	<b>D2005R</b>	10,358	N2	194	80,83	T18R1318 (d)	STAB	413336-1R
		C1811ATZ	500	300	9	1	<b>D5005R</b>	9,967	N2	194	80	T18R1334 (d)	STR	413336-1R
7.5	1750/2300	C1811ATZ	240	150	28	1.95	<b>D2007R</b>	10,358	N2	210	80,83	T18R1301 (d)	STAB	413336-1R
		C1811ATZ	500	300	13.5	1.29	<b>D5007R</b>	9,967	N2	197	80	T18R1335 (d)	STR	413336-1R
10	1750/2300	C1812ATZ	240	150	37	2.12	<b>D2010R</b>	11,335	N2	233	80,84	T18R1302 (d)	STAB	413336-1R
		C1812ATZ	500	300	17.4	1.08	<b>D5010R</b>	11,335	N2	227	80,85	T18R1307 (d)	STAB	413336-1R
15	1750/2300	SC2113ATZ	240	150	56	4.12	<b>D2015R</b>	15,311	N2	315	87	T21S1330	STAB	417708-21
		SC2113ATZ	500	150/300	27	1.76	<b>D5015R</b>	15,311	N2	320	87	T21S1322	STAB	417708-21
20	1750/2300	LC2113ATZ	240	150	74	4.24	<b>D2020R</b>	18,661	N2	403	87	T21S1331	STAB	417708-21
		MC2113ATZ	500	150/300	35	1.98	<b>D5020R</b>	17,074	N2	372	87	T21S1323	STAB	417708-21
25	1750/2300	LC2113ATZ	240	150	91.5	5.82	<b>D2025R</b>	18,661	N2	415	87	T21S1332	STAB	417708-21
		LC2113ATZ	500	150/300	43	2.61	<b>D5025R</b>	18,661	N2	394	87	T21S1324	STAB	417708-21
30	1750/2300	SC2512ATZ	240	150	111	3.45	<b>D2030R</b>	26,466	N2	515	87	T25S1330	STAB	417708-21
		SC2512ATZ	500	150/300	52	1.71	<b>D5030R</b>	26,466	N2	520	87	T25S1322	STAB	417708-21
40	1750/2100	LC2512ATZ	500	150/300	68	2.4	<b>D5040R</b>	28,717	N2	605	6,87	T25S1323	STAB	417708-21
50	1750/2100	MC2812ATZ	500	150/300	85	2.01	<b>D5050R</b>	41,092	N2	766	6,87	T28S1313	STAB	417708-26
60	1750/2100	LC2812ATZ	500	300	100	2.77	<b>D5060R</b>	45,931	N2	860	6,87	T28S1314	STAB	417708-26

**NOTE:** Encoder and tachometer kits on page 248.

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

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes

### 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, TENV	5,128	E8	4
RE045	45 VAC/ 1000 RPM	417708-25	C280-C400	DPG, DPFV, TENV	4,673	N5	11
		417708-152	C440	DPG, DPFV, TENV	4,673	N5	13

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

**Applications:** Encoder and Tachometer mounting 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
XPY, XPYII, 5PY, RPY444	417709-61	C320	TEFC	4,245	A8	29
	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
RL67	417709-67	C280	TEFC	4,245	A8	15
	417709-68	C320	TEFC	4,245	A8	18
	417708-40	DC180, C180, DC2112	DPG, DPFV, TENV	1,091	A8	1
	417708-41	C210 - C250	DPG, DPFV, TENV	1,091	A8	2
RL67	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	<b>417077-51</b>	1,491	A8	44	Blower Kit Without Filter
C210ATZ	<b>419947-29</b>	1,491	A8	52	Blower Kit Without Filter
C250ATZ	<b>419947-30</b>	1,491	A8	39	Blower Kit Without Filter
C280ATZ	<b>419947-32</b>	1,823	A8	55	Blower Kit Without Filter
C320ATZ	<b>419947-34</b>	2,123	A8	81	Blower Kit Without Filter
C3612ATZ	<b>417077-74</b>	2,123	A8	55	Blower Kit Without Filter
C3613ATZ	<b>417077-127</b>	2,123	A8	75	Blower Kit Without Filter
C400ATZ	<b>417077-75</b>	2,324	A8	85	Blower Kit Without Filter
C440ATZ	<b>417077-126</b>	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	<b>417077-57</b>	911	A8	2	Washable Wire Mesh Canister Type
C2113ATZ	<b>417077-58</b>	911	A8	4	Washable Wire Mesh Canister Type
C2115ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C2512ATZ	<b>417077-58</b>	911	A8	4	Washable Wire Mesh Canister Type
C2514ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C2515ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C2812ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C2813ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C2815ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C3210ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C3212ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C3214ATZ	<b>417077-59</b>	911	A8	4	Washable Wire Mesh Canister Type
C3612ATZ	<b>417077-65</b>	1,165	A8	7	Washable Wire Mesh Canister Type
C3613ATZ	<b>417077-102</b>	1,642	A8	6	Washable Wire Mesh Canister Type
C400ATZ	<b>417077-102</b>	1,642	A8	6	Washable Wire Mesh Canister Type
C440ATZ	<b>417077-124</b>	1,893	A8	18	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.	Description	Dimension Sheet
DC1810ATZ	<b>42384-26D</b>	319	A8	14	Standard Duty	609987-501
DC1811ATZ	<b>42384-26BE</b>	319	A8	17	Heavy Duty	609987-501
C1811ATZ	<b>42384-26BE</b>	278	A8	17	Heavy Duty	609987-1
C1812ATZ	<b>42384-26BF</b>	319	A8	17	Heavy Duty	609987-1
DC2112ATZ	<b>42384-26BH</b>	545	A8	29	Heavy Duty	609958-51
C2113ATZ	<b>419914-1A</b>	545	A8	50	Heavy Duty	609957-1
C2115ATZ	<b>419914-1P</b>	545	A8	36	Heavy Duty	609957-1
C2512ATZ	<b>419914-1B</b>	634	A8	33	Heavy Duty	609957-1
C2514ATZ	<b>419914-1R</b>	634	A8	59	Heavy Duty	609957-1
C2515ATZ	<b>419914-1S</b>	634	A8	36	Heavy Duty	609957-1
UC2812ATZ	<b>419914-1C</b>	1,223	A8	37	Heavy Duty	609957-1
UC2813ATZ	<b>419914-1T</b>	1,223	A8	26	Heavy Duty	609957-1
UC2815ATZ	<b>419914-1U</b>	1,223	A8	42	Heavy Duty	609957-1
UC3212ATZ	<b>419914-1D</b>	1,606	A8	69	Heavy Duty	609977-1
UC3214ATZ	<b>419914-1W</b>	1,606	A8	76	Heavy Duty	609977-1
UC3612ATZ	<b>419914-1E</b>	2,166	A8	76	Heavy Duty	609977-1
UC3613ATZ	<b>419914-1X</b>	2,166	A8	81	Heavy Duty	609977-1

### SCR Drive Motors Shunt 5 thru 250 Hp and Stabilized Shunt Wound - DPF, Self Ventilated, Rigid Base

### NEMA L186AT thru 506AT

**Applications:** Conveyors, plastic extruders, packaging machinery and other constant torque applications for DC SCR motors.

**Features:** Includes thermostat on interpole. Class F insulation system resistant to dirt, carbon, dust and moisture. High dielectric stability. Low moment of inertia armature for fast response. Constant pressure brush springs and longer brushes for reduced maintenance. Includes grease fittings and reliefs for bearing maintenance. Power code C and D or M-G sets. Maximum RPM by field weakening. Provisions for tach mounting. (See tach mounting kits on page 322). May be converted to blower ventilated (DPBV) for extended constant torque speed range.



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	.68	<b>D2005P</b>	6,242	N2	180	TKP1836XP	FVB3180	2,20
			500	150/300	8.5	.6	<b>D5005P</b>	6,242	N2	162	TKP1836XP	FVB3180	2,20
7 1/2	1750/2300	1810AT	240	150/300	28.1	.8	<b>D2007P</b>	7,258	N2	218	TKP1836XP	FVB3180	2,20
		218AT	500	150/300	13.2	.69	<b>D5007P</b>	8,009	N2	235	TKP1836XP	FVB3210	2,20
10	1750/2300	219AT	240	150/300	36.6	2.16	<b>D2010P</b>	8,238	N2	245	TKP1836XP	FVB3210	2,20
			500	150/300	17.2	1.17	<b>D5010P</b>	8,238	N2	255	TKP1836XP	FVB3210	2,20
15	1750/2300	258AT	240	150/300	55	2.58	<b>D2015P</b>	9,861	N2	250	TKP1836XP	FVB3250	2,20
			500	150/300	25.2	1.4	<b>D5015P</b>	9,861	N2	250	TKP1836XP	FVB3250	2,20
20	1750/2300	259AT	240	150/300	70.5	2.48	<b>D2020P</b>	11,273	N2	250	TKP1836XP	FVB3250	2,20
			500	150/300	35.1	1.24	<b>D5020P</b>	11,273	N2	250	TKP1836XP	FVB3250	2,20
25	1750/2300	288AT	240	150/300	89.2	2.99	<b>D2025P</b>	15,236	N2	575	TKP1836XP	FVB4280	2,20
		287-8AT	500	150/300	43.4	1.64	<b>D5025P</b>	15,236	N2	490	TKP1836XP	FVB4280	2,20
30	1750/2300	288AT	240	150/300	106	4.52	<b>D2030P</b>	15,236	N2	595	TKP1836XP	FVB4280	2,20
			500	150/300	50	2	<b>D5030P</b>	15,236	N2	590	TKP1836XP	FVB4280	2,20
40	1750/2100	328AT	500	150/300	67.9	2.17	<b>D5040P</b>	20,393	N2	784	TKP1836XP	FVB6320	2,20
50	1750/2100	328AT	500	150/300	83.7	2	<b>D5050P</b>	20,393	N2	835	TKP1836XP	FVB6320	2,20
60	1750/2100	365-6AT	500	150/300	98.6	1.75	<b>D5060P</b>	27,343	N2	790	TKP1836XP	FVB6400	2,20
75	1750/2100	366AT	500	150/300	123	1.48	<b>D5075P</b>	27,343	N2	905	TKP1836XP	FVB6400	2,20
100	1750/2000	368AT	500	150/300	158	3	<b>D50100P</b>	36,878	N2	1100	TKP1836XP	FVB6400	2,20
125	1750/2000	407AT	500	150/300	200	3	<b>D50125P</b>	42,414	N2	1445	TKP400XP	FVB6400	2,20
150	1750/2000	409AT	500	150/300	237	3.7	<b>D50150P</b>	52,882	N2	1785	TKP400XP	FVB6400	2,20
200	1750/1900	504AT	500	150/300	320	3.9	<b>D50200P</b>	65,981	N2	2095	TKP500XP	FVB8500	2,20
250	1750/1900	506AT	500	150/300	392	5	<b>D50250P</b>	79,067	N2	2540	TKP500XP	FVB8500	2,20

**NOTES:**

- (a) DPF 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. 360, 400 & 500 frames are 4 pole stabilized shunt until 3rd quarter 2006 when they became shunt. Others are 2 pole shunt.
- (c) Does not include price of blower. See page 253 for pricing.
- (d) Does not include weight of blower. See page 253 for weights.
- (e) See notes on inside back flap.

180 frame motors are supplied without external conduit box, see online layout drawing for details.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes



**SCR Drive Motor Shunt and Stabilized Shunt Wound DPBV Enclosure - Rigid Base**

**40 thru 500 Hp**

**NEMA 328AT thru 5010AT**



**Applications:** Conveyors, plastic extruders, packaging machinery and other constant torque applications for DC SCR motors.

**Features:** Includes thermostat on interpole. Class F insulation system resistant to dirt, carton, dust and moisture. High dielectric stability. Low moment of inertia armature for fast response. Constant pressure brush springs and longer brushes for reduced maintenance. Includes grease fittings and reliefs for bearing maintenance. Power code C or M-G sets. Maximum RPM by field weakening. Provisions for tach mounting. (See tach kits on page 322). Blower-ventilated, includes filter.

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	23,764	N2	855	TKP1836XP	2,20
			500	150/300	67.9	2.17	D5040P-BV	23,764	N2	830	TKP1836XP	2,20
50	1750/2100	328AT	240	150/300	175	2.64	D2050P-BV	23,764	N2	835	TKP1836XP	2,20
			500	150/300	83.7	2	D5050P-BV	23,764	N2	885	TKP1836XP	2,20
60	1750/2100	366AT	240	150/300	201	5.6	D2060P-BV	30,715	N2	980	TKP1836XP	2,20
		365-6AT	500	150/300	98.6	1.75	D5060P-BV	30,715	N2	880	TKP1836XP	2,20
75	1750/2100	366AT	240	150/300	256	5.6	D2075P-BV	30,715	N2	975	TKP1836XP	2,20
			500	150/300	123	1.48	D5075P-BV	30,715	N2	960	TKP1836XP	2,20
100	1750/2000	368AT	500	150/300	158	3	D50100P-BV	40,250	N2	1145	TKP1836XP	2,20
125	1750/2000	368AT	500	150/300	197	3	D50125P-BV	40,250	N2	1170	TKP1836XP	2,20
150	1750/2000	407-9AT	500	150/300	238	2.7	D50150P-BV	46,126	N2	1515	TKP400XP	2,20
200	1750/1900	409AT	500	150/300	311	3.75	D50200P-BV	57,457	N2	1830	TKP400XP	2,20
250	1750/1900	504-6AT	500	150/300	405	4.9	D50250P-BV	70,339	N2	2175	TKP500XP	2,20
300	1750	506AT	500	150/300	478	6.2	D50300P-BV	83,425	N2	2640	TKP500XP	2,20
400	1750/1900	508AT	500	150/300	624	6.08	D50400P-BV	117,765	N2	3285	TKP5006XP	2,20
500	1750/1900	5010AT	500	150/300	788	6	D50500P-BV	154,655	N2	4170	TKP500XP	2,20

**NOTE:** (a) Field amps are for 150V connection on 240VDC motors; 300V connection on 500VDC motors.

360 through 500 frames are 4 pole stabilized shunt, until 3rd quarter 2006 when they became shunt. Others are 2 pole shunt. Tach mounting kits on page 253.

(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**

**NEMA L186ATC thru 258ATC**



**Applications:** Conveyors, plastic extruders, packaging machinery and other constant torque applications for DC SCR motors.

**Features:** Includes thermostat on interpole. Class F insulation system resistant to dirt, carbon, dust and moisture. High dielectric stability. Low moment of inertia armature for fast response. Constant pressure brush springs and longer brushes for reduced maintenance. Includes grease fittings and reliefs for bearing maintenance. Power code C or M-G sets. Maximum RPM by field weakening.

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	.45	CD2003P-2	6,453	N2	170	TKP1836XP	FVB3180	1, 3
5	1750/2300	L186ATC	240	120/240	17.7	.45	CD2005P-2	6,453	N2	170	TKP1836XP	FVB3180	1, 3
7 1/2	1750/2300	1810ATC	240	120/240	28.1	.52	CD2007P-2	7,468	N2	222	TKP1836XP	FVB3180	1, 3
10	1750/2300	219ATC	240	120/240	36.6	1.26	CD2010P-2	8,834	N2	250	TKP1836XP	FVB3210	1, 3
15	1750/2300	258ATC	240	120/240	55	1.26	CD2015P-2	10,458	N2	250	TKP1836XP	FVB3250	1, 3

**NOTE:** (a) Field amps for 240VDC connection. (b) Does not include price of blower and filter. See page 253 for pricing.

(c) Does not include weight of blower and filter. See page 253 for weights. Tach mounting kits on page 253.

(d) See notes on inside back flap. 180 frame motors are supplied without external conduit box, see online layout drawing for details.

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### Shunt Wound SCR Drive Motor - TEFC, Rigid Base

5 thru 25 Hp

NEMA 1810AT THRU 328AT

**Applications:** Conveyors and packaging machinery.

**Features:** Includes thermostat on interpole, grease fittings and reliefs. Class F insulation system. Constant pressure brush springs and precision brush holders. Provisions for tach mounting ( See tach mounting kits page 322).



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	0.68	D2505P	9,004	N2	220	N/A	1, 3
			500	150/300	8.3	0.34	D5505P	9,004	N2	214	N/A	1, 3
7 1/2	1750/2300	2110AT	240	150/300	26.6	2.10	D2507P	10,480	N2	300	TKP2136XPT	1, 3
			500	150/300	12.3	1.05	D5507P	10,480	N2	310	TKP2136XPT	1, 3
10	1750/2300	259AT	240	150/300	34.3	1.72	D2510P	13,020	N2	250	TKP2136XPT	1, 3
			500	150/300	16.3	0.86	D5510P	13,020	N2	250	TKP2136XPT	1, 3
15	1750/2300	288AT	240	150/300	51.7	1.96	D2515P	17,374	N2	630	TKP2136XPT	1, 3
			500	150/300	24.5	0.99	D5515P	17,374	N2	630	TKP2136XPT	1, 3
20	1750/2300	328AT	240	150/300	68.8	2.22	D2520P	22,882	N2	850	TKP2136XPT	1, 3
			500	150/300	32.7	1.11	D5520P	22,882	N2	875	TKP2136XPT	1, 3
25	1750/2300	328AT	240	150/300	84.8	2.22	D2525P	22,882	N2	872	TKP2136XPT	1, 3
			500	150/300	40.9	1.11	D5525P	22,882	N2	870	TKP2136XPT	1, 3

**NOTE:** (a) Field amps are for 150V connection on 240VDC motors; 300V connection on 500VDC motors. Tach mounting kits on page 253.

(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

NEMA 1810AT thru 329AT

**Applications:** Crane mounted lifting magnets for recyclers and steel mills.

**Features:** Heavy duty steel frame. Cast iron endplates. Class H insulation with Class F temperature rise. Precision brush holders. Constant force brush springs. Double sealed ball bearings. Compound wound with drooping voltage characteristics. DPFPG enclosure. Weather resistant paint. F-2 conduit box. CDMG generators have C-face and base mounting for hydraulic pump or PTO mounting.



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	0.61	DMG2305	7,521	N2	220	300	0.85	1, 3
7 1/2	2500	219AT	230	230	32.6	1.14	DMG2307	8,652	N2	245	150	1.6	1, 3
		219AT	230	230	43.5	0.72	DMG2310	9,589	N2	250	200	1.4	1, 3
10	2500	219ATC	230	230	43.5	0.72	CDMG2310	10,190	N2	250	200	1.4	1, 3
		259AT	230	230	65	1.3	DMG2315	16,097	N2	250	200	1.82	1, 3
15	1750	259ATC	230	230	65	1.3	CDMG2315	16,684	N2	250	200	1.82	1, 3
		288AT	230	230	87	1.8	DMG2320	17,622	N2	595	125	2.52	1, 3
20	1750	288ATC	230	230	87	1.8	CDMG2320	18,625	N2	620	125	2.52	1, 3
		328AT	230	230	109	2.13	DMG2325	19,269	N2	820	100	3.0	1, 3
25	1750	328ATC	230	230	109	2.13	CDMG2325	20,265	N2	886	100	3.0	1, 3
		328AT	230	230	144	2.13	DMG2333	24,435	N2	840	100	3.0	1, 3
33	1750	328ATC	230	230	144	2.13	CDMG2333	25,423	N2	880	100	3.0	1, 3
		329AT	230	230	174	3.7	DMG2340	26,785	N2	910	50	5.2	1, 3

**NOTE:** 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	<b>TKP1836XP</b>	1,142	A8	1
XPY, DPY	210/360	TEFC	<b>TKP2136XPT</b>	1,142	A8	13
BTG1000	400	DPFG, DPBV	<b>TKP400XP</b>	1,142	A8	3
	500	DPFG, DPBV	<b>TKP500XP</b>	1,142	A8	3
XC42 or XC46	210/360	DPFG, DPBV	<b>TKP2136XC</b>	1,689	A8	16
	500	DPFG, DPBV	<b>TKP500XC</b>	1,689	A8	7
ENCO0NV ENCODER	180/360	DPFG, DPBV	<b>TKP1836ENC</b>	867	A8	17
	400	DPFG, DPBV	<b>TKP400ENC</b>	867	A8	16
	500	DPFG, DPBV	<b>TKP500ENC</b>	867	A8	17
NCS PANCAKE	210/360	DPFG, DPBV	<b>TKP2136NC</b>	65	A8	3
	400	DPFG, DPBV	<b>TKP400NC</b>	65	A8	1
	500	DPFG, DPBV	<b>TKP500NC</b>	65	A8	1
AC PANCAKE	210/360	DPFG, DPBV	<b>TKP2136AC</b>	65	A8	2
	400	DPFG, DPBV	<b>TKP400AC</b>	65	A8	1
	500	DPFG, DPBV	<b>TKP500AC</b>	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.
<b>Blower and Mounting Kit</b>						
180	<b>FVB3180</b>	1 PH	LM 3	1,491	A8	18
210	<b>FVB3210</b>	3 PH	LM 3	1,491	A8	25
250	<b>FVB3250</b>	3 PH	LM 3	1,491	A8	19
280	<b>FVB4280</b>	3 PH	LM 4	1,823	A8	44
320	<b>FVB6320</b>	3 PH	LM 6	2,123	A8	46
360-400	<b>FVB6400</b>	3 PH	LM 6	2,323	A8	59
504-506	<b>FVB8500</b>	3 PH	LM 8	2,750	A8	93
508-5012	<b>FVB95010 (a)</b>	3 PH	LM 9	4,738	A8	171
<b>Filter and Hardware for Above Blowers</b>						
180, 210, 250	<b>FLT3210-250 (b)</b>	-	LM 3	791	A8	2
280	<b>FLT4280</b>	-	LM 4	791	A8	9
320,360,400	<b>FLT6320-400</b>	-	LM 6	791	A8	14
504-506	<b>FLT8500</b>	-	LM 8	965	A8	9

**NOTE:** (a) Includes Blower and Filter. (b) Also used with FVB3180.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes

### Tach 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.
<b>XPY Flange Mount (DC)</b>					
30AFL-0	50VDC	BTG1000	559	DS	7
XPYIII	100VDC	BTG100XPS	1,021	N5	2
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
<b>XPY Washdown Flange Mount (DC)</b>					
XPYII	100VDC	PTGWD100XPS	1,607	N5	9
XPYIII	100VDC	BTGWD100XPS	1,214	N5	2
XPYII	50VDC	PTGWD50XPS	1,607	N5	10
XPYIII	50VDC	BTGWD50XPS	1,214	N5	2
<b>Encoder Based Digital PY Flange Mount</b>					
DPY	1024PPR	PTG1024LD (a)	1,895	N5	1
<b>Electrically Isolated Encoder</b>					
E-ACC	1024PPR	ENC00NV (a) (b)	1,932	E8	2
<b>Metric Flange Mount (DC)</b>					
XPY	60VDC	PTG60XP-M (c)	1,453	N5	5
XPYII	60VDC	PTG60XPS-M (c)	1,509	N5	8
XPYIII	60VDC	BTG60XPS-M (c)	1,021	N5	2
<b>Foot Mount (DC)</b>					
XPY	100VDC	PFTG100XP	1,453	N5	6
XPY	50VDC	PFTG50XP	1,453	N5	6
<b>Foot Mount with Face (DC)</b>					
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
<b>Pancake Mount (AC &amp; DC)</b>					
AC	45/90VAC	PTG4590AC (d) **	1,396	N5	8
NCS	50VDC	PTG50NC (d) **	2,085	N5	8

**NOTE:** Flange mounted tachs require tach adapters shown on pages 253 & 255. XPY tachs have UL listing, file number E109527, CSA file number LR36841-5, XPYII tachs are pending approval.

(a) See page 196 for cables.

(b) Electrically isolated encoder & kit: Mounts to SCR motors using appropriate adapter shown on page 253 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 motors on pages 250 & 251 using adapters shown on page 253.

Farm Duty  
Motors

Definite Purpose  
Motors

Unit Handling  
Motors

Brake  
Motors

200 & 575 Volt  
Motors

IEC Frame  
Motors

50 Hertz  
Motors

Inverter/Vector  
Motors & Controls

DC Motors  
and Controls

Soft Start & Dynamic  
Brakes

**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 shown on page 254.



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	5
3600P	TK3600PM	498	A8	3
7500D	TK7500	516	A8	17
9100D	TK9100	557	A8	23

Farm Duty  
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Motors

Inverter/Vector  
Motors & Controls

DC Motors  
and Controls

Soft Starters &  
Dynamic Brakes



### Fractional Horsepower DC Speed Controls for PMDC Motors

1/15 thru 1/4

115 VAC Single Phase 50/60 Hz.

**Applications:** Conveyors, machine tools and other applications requiring adjustable speed.

**Features:** Simple DC motor control with built-in circuit breaker, center lock reversing switch (center off), on/off switch, 7 foot SJO oil resistant cord, and variable voltage transformer for manual speed adjustment. NEMA 1 enclosure is standard. CSA list file # LR54532.



Max Hp	Catalog Number	List Price	Mult. Sym.	Ap'x Shpg. Wgt.	Amp Capacity	Input Voltage
1/15	BC110	549	E9	5	1.0	115VAC
1/8	BC115	586	E9	6	1.5	115VAC
1/4	BC130	746	E9	10	3.0	115VAC

### 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. 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 ENCLOSED (NEMA 1)

Hp Range	Catalog Number	List Price	Mult. Sym.	Ap'x Shpg. Wgt. Lbs.	Input Voltage
1/100-1/3	BC138	218	E9	1	115
1/50-3/4	BC139	218	E9	1	230
1/100-2 (a)	BC140	369	E9	3	115/230
1/100-2 (a)	BC140-FBR	510	E9	3	115/230

**NOTE:** (a) 1 Hp at 115V and 2 Hp at 230V requires BC143 heatsink kit. See page 330 for features. FBR=Forward/Brake/Reverse.

### DC Control Accessories

Catalog Number	Description	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
BC24-LF	Ac Line Filter for use with CE Applications	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
BC146	Current Sensing Relay/Overload Protector	136	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.**



BC141 / BC142

**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.

Hp Range	Catalog Number	Description Input Voltage / Max. Hp	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Input Voltage
1/100-1 1/2 (a)	<b>BC141</b>	Standard Model, single voltage	202	E9	1	115
1/100-1 1/2	<b>BC141-SIH</b>	BC141 with BC152 Signal Isolator and BC143 Heatsink factory installed	477	E9	2	115
1/100-3 (a)	<b>BC142</b>	Standard Model, single voltage	202	E9	2	230
1/100 - 3	<b>BC142-SIH</b>	BC142 with BC152 Signal Isolator and BC143 Heatsink factory installed	499	E9	2	230
1/100-1 1/2 (a) 1/50-3	<b>BC142-5</b>	Dual voltage, without fuse holders	225	E9	1	115/230
1/100 - 1 1/2 (a) 1/50 - 3	<b>BC142-6</b>	Standard Model, dual voltage	224	E9	1	115/230
1/100 - 1 1/2 1/50 - 3	<b>BC142-6SIH</b>	BC142-6 with BC152 signal isolator board and BC143 heatsink factory installed	499	E9	1	115/230
5	<b>BC155</b>	230V - 5 Hp	660	E9	5	230

**NOTE:** Above controls include 5k speed potentiometer.  
(a) 1-1.5 Hp at 115 Volts and 2-3 Hp at 230 Volts, requires BC143 Heatsink kit.  
BC155 Includes integral heatsink. Please refer to page 330 for features.

**Plug-in Horsepower Resistor and Fuse Kit**



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

These 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.

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	<b>BR1000</b>	0.20	0.5
1/50	1/25	0.51	<b>BR0510</b>	0.30	0.5
1/30	1/15	0.35	<b>BR0350</b>	0.33	0.5
1/20	1/10	0.25	<b>BR0250</b>	0.5	0.75
1/15	1/8	0.25	<b>BR0251</b>	0.8	1.0
1/12	1/6	0.18	<b>BR0180</b>	0.85	1.25
1/8	1/4	0.1	<b>BR0100</b>	1.3	2.0
1/6	1/3	0.1	<b>BR0101</b>	2.0	2.5
1/4	1/2	0.05	<b>BR0050</b>	2.5	4.0
1/3	3/4	0.035	<b>BR0035</b>	3.3	5.0
1/2	1	0.025	<b>BR0025</b>	5.0	8.0
3/4	1 1/2	0.015	<b>BR0015SP</b>	7.5	12.0
1 (a)	2 (a)	0.01	<b>BR0010SP</b>	10	15.0
1 1/2 (a)	3 (a)	0.006	<b>BR0006</b>	15	25.0 (b)

**NOTE:** (a) External Heatsink required. (b) Also used with AC Line Fuse. For AC line fuse rating see manual.

### NEMA 4X DC Control and Accessories

**1/4 thru 2 Hp 115/230 VAC**    **Single Phase 50/60 Hz.**  
**3 Hp 230 VAC**    **Single Phase 50/60 Hz.**

**Applications:** Constant torque, new or replacement.

**Features:** BC154, BCWD140 and BC160 are non-regen controls with reversal by means of switching the armature leads (BCWD140 has a forward/brake/reverse switch mounted). BC254 is a line regenerative SCR control that 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. All offer a choice of armature or tachometer feedback and a speed or torque mode. No Hp resistors are needed for these controls, current is jumper selectable. BC154, BC160, BC254 and BC354 are painted black and come with a start-stop switch. BCWD140 comes with white epoxy paint and also forward/brake/reverse and run-jog switches. See page 330 for features.



Hp Range	Catalog Number	Description Input Voltage / Max. Hp	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Input Voltage
<b>NEMA 4X SCR (black)</b>						
1/4-2	<b>BC154</b>	Standard model - 120V - 1 Hp, 230V - 2 Hp	467	E9	5	115/230
	<b>BC154-P</b>	BC154 with POWER SWITCH instead of START/STOP SW.	467	E9	5	115/230
	<b>BC154-R</b>	BC154 with BC156 - FBR Switch factory installed	616	E9	5	115/230
	<b>BC154-SI</b>	BC154 with BC145 Signal Isolator Board and BC158 Auto/Man Switch kit factory installed	751	E9	5	115/230
3	<b>BC160</b>	120V - 1.5 Hp, 230V - 3 Hp	537	E9	3	115/230
<b>NEMA 4X Washdown Duty SCR (white)</b>						
1/4-2	<b>BCWD140</b>	120V - 1 Hp, 230V - 2 Hp	625	E9	6	115/230
<b>NEMA 4X Washdown Duty Line Regen SCR (black)</b>						
1/8-2	<b>BC254</b>	120V - 1 Hp, 230V - 2 Hp (a)	673	E9	5	115/230
	<b>BC254-FBR</b>	BC254 with BC253 FWD-BRAKE-REV switch factory installed	706	E9	5	115/230
<b>NEMA 4X Washdown Duty PWM DC (black) (b)</b>						
1/4-2	<b>BC354</b>	120V - 1 Hp, 230V - 2 Hp	723	E9	5	115/230

**NOTE:** (a) See page 329 for BC254 accessories.

(b) Output current is 7.5 amps; Output voltage is 130VDC for 115VAC input - 260VDC for 230VAC input. Motors designed for these voltages will give the best performance.

### DC SCR NEMA 4X DC Control Accessories

Catalog Number	Description	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.
<b>BC153</b>	Electronic Forward-Dynamic Brake-Reverse Kit for BC154, BC354	223	E9	1
<b>BC156</b>	Mechanical Forward-Dynamic Brake-Reverse Switch for BC154, BC354	145	E9	1
<b>BC157</b>	Run/Jog switch for BC154 & BC160, BC354	27	E9	1
<b>BC158</b>	Auto/Manual Installation Kit for BC145 signal isolator for BC154, BC160, BC354	60	E9	1
<b>BC159</b>	AC Line Switch Kit for BC154, BCWD140, BC254, BC354	32	E9	1
<b>BC145</b>	Signal Isolator Board	211	E9	1

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

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes

**Line Regenerative DC Controls and Accessories**

**1/4 thru 3 Hp 115/230 VAC Single Phase 50/60 Hz.**  
**5 Hp 230 VAC Single Phase 50/60 Hz.**



**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.

Hp Range	Catalog Number	Description Input Voltage / Max. Hp	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Input Voltage
<b>Line Regen SCR</b>						
1/8-2 (a)	<b>BC204</b>	120V 1 Hp, 230V 2 Hp, Standard Model	377	E9	3	115/230
	<b>BC204-BPSI</b>	BC204 with BC215 Bi-polar Signal Isolator factory installed	487	E9	3	
1/4-2	<b>BC200</b>	120V 1 Hp, 230V 2 Hp	704	E9	4	115/230
1/4-3	<b>BC201</b>	120V 1-1/2 Hp, 230V 3 Hp	836	E9	1	115/230
5	<b>BC203</b>	230V 5Hp	1,052	E9	10	230
<b>NEMA 4X Washdown Duty Line Regen SCR</b>						
1/8-2	<b>BC254</b>	120V - 1Hp, 230V - 2Hp Standard Model	673	E9	5	115/230
	<b>BC254-FBR</b>	BC254 with Power On/Off switch instead of Start/Stop switch, and BC253. Forward-Brake-Reverse switch factory installed	706	E9	5	115/230

**NOTE:** (a) 1 Hp at 115 volts and 2 Hp at 230 volts requires BC143 heatsink kit.

**Line Regenerative DC Control Accessories**

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

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes

### NEMA Enclosed DC Control Specifications

Features	Catalog Number											
	BC138		BC139		BC140 or BC140-FBR		BC154		BC160		BCWD140	
Enclosure	NEMA 1		NEMA 1		NEMA 1		NEMA 4X		NEMA 4X		NEMA 4X Washdown	
Control Type	NEMA K		NEMA K		NEMA K		NEMA K		NEMA K		NEMA K	
AC Line Input	115		230		115 230		115 230		230		115 230	
DC Armature Voltage Nominal	90		180		90 180		90 180		180		90 180	
Shunt Field Power Supply Voltage - DC	50/100		100/200		50/100 100/200		50/100 100/200		100/200		50/100 100/200	
Rated Horsepower Range	1/100 - 1/3		1/50-3/4		1/100-1 1/50-2		1/50-1 1/25-2		3		1/50-1 1/25-2	
External Heat Sink (BC143) Required	No		No		1 Hp 2Hp		Not Required		Not Required		Not Required	
Speed Range (Motor May Be 20: 1 Constant Torque)	50:1		50:1		50:1		50:1		50:1		50:1	
Adjustable Acceleration Time	Yes		Yes		Yes		Yes		Yes		Yes	
Adjustable Deceleration Time	Yes		Yes		Yes		Yes		Yes		Yes	
Minimum Speed Adjustable	Yes		Yes		Yes		Yes		Yes		Yes	
Maximum Speed Adjustable	Yes		Yes		Yes		Yes		Yes		Yes	
Current Limit Adjustable	Yes		Yes		Yes		Yes		Yes		Yes	
Adjustable Current Limit and Trip Out Type	No		No		No		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	
IR Compensation Adjustable	Yes		Yes		Yes		Yes		Yes		Yes	
Tachometer Feedback Input	No		No		No		Yes		Yes		Yes	
Plug-In Horsepower Resistor ®	Required		Required		Required		N/A		N/A		N/A	
UL & cUL Listing, CE	Yes		Yes		Yes		Yes		Yes		Yes	
AC Line Fuse	Included		Included		Included		External		External		External	
DC Armature Fuse	Included with Hp Resistor		Included with Hp Resistor		Included with Hp Resistor		Not Supplied with Control		External		Not Supplied with Control	
<b>Options</b>												
AC Line Switch	Standard		Standard		Standard		Opt - BC159		No		Standard	
Forward/Brake/Reverse Switch	No		No		Opt-BC144		Opt-BC156		No		Standard	
Mechanical	No		No		No		Opt-BC153		No		Opt-BC153	
Electronic	No		No		No		Opt-BC157		Opt-BC157		Standard	
Run/Jog Switch	No		No		No		Opt-BC157		Opt-BC157		Standard	
Input Signal					External Mount		Internal Mount		Internal Mount		Internal Mount	
Following Mode Capability					Opt-BC145		Opt-BC145		Opt-BC145		Opt-BC145	
Current (1-5, 4-20, 20-50mA)	No		No									
Voltage (0-25,0-120, 0-550 VDC)					Opt-BC145		(0-5, 0-10 VDC) input standard		(0-5, 0-10 VDC) input standard		(0-5, 0-10 VDC) input standard	
Electrical Connection To Control Barrier Terminal Block	Standard		Standard		Standard		Standard		Standard		Standard	
Current Sensing Relay/Overload Protector	No		No		Opt - BC146 External Mount		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	

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes



**Chassis Mount DC Control Specifications**

Features	Catalog Number								
	BC141	BC142	BC142-6	BC155	BC204	BC200	BC201	BC203	
Enclosure	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis	
Control Type	NEMA K	NEMA K	NEMA K	NEMA K	Regenerative	Regenerative	Regenerative	Regenerative	
AC Line Input	115	230	115 230	230	115 230	115 230	115 230	230	
DC Armature Voltage Nominal	90	180	90 180	180	90 180	90 180	90 180	180	
Shunt Field Power Supply Voltage - DC	50/100	100/200	50/100 100/200	50/100 100/200	50/100 100/200	50/100 100/200	100/200	100/200	
Rated Horsepower Range	1/100-1.5	1/50-3	1/100-1 1/2 1/50-3	5	1/8-1 1/4-2	1/4-1 1/2-2	1/4-1-1/2 1/2-3	5	
External Heat Sink (BC143) Required	1 Hp-Up	2 Hp-Up	1/2 Hp-Up 1 Hp-Up	Not Required	90V-1Hp 180V-2Hp	Not Required	Not Required	Not Required	
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 Acceleration	Yes	Yes	Yes	Yes	Yes Fwd & Rev	Yes Fwd & Rev	Yes Fwd & Rev	Yes Fwd & Rev	
Adjustable Deceleration	Yes	Yes	Yes	Yes	Regen	Regen	Regen	Regen	
Min. Speed Adjustable	Yes	Yes	Yes	Yes	No	No	No	No	
Max. Speed Adjustable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Adjustable Current	Non	Non	Non	Non	Non	Timed	Timed	Timed	
Limit and Tripout Type	Timed	Timed	Timed	Timed	Timed	Timed	Timed	Timed	
Control of Speed or Torque	Speed	Speed	Speed	Speed 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	N/A	N/A	External	

**Options**

Input Signal Following Mode Capability								
Current (4-20 mA)	Plug on Mount Opt-BC152	Plug on Mount Opt-BC152	Plug on Mount Opt-BC152	External Mount	No	No	No	No
Current (1-5, 4-20, 20-50 mA)	External Mount Opt-BC145	External Mount Opt-BC145	External Mount Opt-BC145	Opt-BC145				
Input Signal Voltage (must be isolated)	0-9 VDC Standard	0-9 VDC Standard	0-9 VDC Standard	0-9 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard	0 to ± 10 VDC Standard
Voltage (0-5, 0-10, 0-100, 0-200, VDC)	Plug on Mount Opt-BC152	Plug on Mount Opt-BC152	Plug on Mount Opt-BC152	External Mount Opt-BC145	±5 to ±25 VDC Opt-BC215	±25 to ±250 VDC Opt-BC212	±25 to ±250 VDC Opt-BC212	±25 to ±250 VDC Opt-BC212
Voltage (0-25, 0-120, 0-550 VDC)	External Mount Opt-BC145	External Mount Opt-BC145	External Mount Opt-BC145					
Electrical Connection To Control	Standard	Standard	Standard	No	Standard	No	No	No
Push-On Quick Connects Barrier Terminal Block	Opt-BC147	Opt-BC147	Opt-BC147	Standard	N/A	Standard	Standard	Standard
Current Sensing Relay/ Overload Protector	Opt-BC146	Opt-BC146	Opt-BC146	Opt-BC146	N/A	Standard	Standard	No Standard
Regenerative Accel / Decel Board	No	No	No	No	No	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	Opt-BC24-LF

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