

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	214	DS	2308P	4	20,60
1/25	1725	90	0.5	AP232001	235	DS	2314P	5	20,60
1/15	1800	90	0.8	AP233001	252	DS	2318P	6	20,60
		180	0.4	AP233021	252	DS	2318P	5	20,60
1/8	1725	90	1.3	AP7401	353	DS	2424P	10	20,60
		180	0.7	AP7421	353	DS	2424P	10	20,60
1/4	3450	90	2.5	AP7402	353	DS	2424P	10	20,60
		180	1.3	AP7422	353	DS	2424P	11	20,60

NOTE: Supplied with type SJO, three foot 18/3 AWG grounded cord. (a) See notes on inside back flap and pages 5-6.

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	512	K	24	20,60	T56S1001
			180	1.25	TENV	CDP3306	512	K	24	20,60	
1/3	1750	56C	90	3.2	TENV	CDP3320	541	K	27	20,60	T56S1003
			180	1.6	TENV	CDP3316	541	K	27	20,60	
1/2	1750	56C	90	4.8	TENV	CDP3330	605	K	32	20,60	T56S1005
			180	2.5	TENV	CDP3326	605	K	31	20,60	T56S1027
	2500	56C	90	5	TENV	CDP3335	541	K	26	20,60	T56S1006
			180	2.5	TEFC	CDP3440	735	K	38	20	T56S1009
13/4	1750	56C	90	7.6	TEFC	CDP3436	735	K	38	20	T56S1029
			180	3.7	TEFC	CDP3436	735	K	38	20	
	2500	56C	90	7.5	TEFC	CDP3443	650	K	36	20	
			180	3.7	TEFC	CDP3443	650	K	36	20	
1	1750	56C	90	10	TEFC	CDP3445	894	K	44	20	T56S1011
			180	5	TEFC	CDP3455	894	K	44	20	T56S1013
	2500	56C	90	9.7	TEFC	CDP3450	735	K	38	20	
			180	4.85	TEFC	CDP3460	735	K	38	20	T56S1012
1 1/2	1750	145TC	180	7.7	TEFC	CDP3575	1649	L1	65	20	
			180	7	TEFC	CDP3580	1434	L1	51	20	
2	1750	145TC	180	9.6	TEFC	CDP3585	1967	L1	74	20	
			180	10	TEFC	CDP3590	1649	L1	64	8	
3	1750	182TC	180	14	TEFC	CDP3603	2422	L1	112	20	
			180	14	TEFC	CDP3604	2409	L1	113	20	
5	1750	1810ATC	180	21.6	TEFC	CDP3605	4112	L1	160	20	

NOTE: See Tach Generators on page 301 and Mounting Kits on page 302. (a) See notes on inside back flap and pages 5-6.

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.		Enclosure	Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.						
1/4	1750	56C	90	2.5	TENV	CDPT3310	1465	K	27	20,60
			180	1.25	TENV	CDPT3306	1465	K	27	20,60
1/3	1750	56C	90	3.2	TENV	CDPT3320	1495	K	32	20,60
			180	1.6	TENV	CDPT3316	1495	K	30	20,60
1/2	1750	56C	90	4.8	TENV	CDPT3330	1589	K	35	20,60
			180	2.5	TENV	CDPT3326	1589	K	36	20,60
3/4	1750	56C	90	7.6	TEFC	CDPT3440	1681	K	44	20
			180	3.7	TEFC	CDPT3436	1681	K	45	20
1	1750	56C	90	10	TEFC	CDPT3445	1875	K	50	20
			180	5	TEFC	CDPT3455	1875	K	50	20
1 1/2	1750	143TC	180	7.7	TEFC	CDPT3575	2604	L1	69	20
2	1750	143TC	180	9.6	TEFC	CDPT3585	2921	L1	79	20
3	1750	182ATC	180	14	TEFC	CDPT3603	3398	L1	122	20
5	1750	1810ATC	180	24.5	TEFC	CDPT3605	5084	L1	161	20

(a) See notes on inside back flap and pages 5-6.

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. 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.		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.					
1/4	1750	56C	90	2.7	CDPX3410	1408	K	38	20, 59
			180	1.3	CDPX3406	1408	K	38	20, 59
1/3	1750	56C	90	3.6	CDPX3420	1770	K	42	20, 59
			180	1.7	CDPX3416	1770	K	44	20, 59
1/2	1750	56C	90	5.2	CDPX3430	1999	K	46	20, 59
			180	2.5	CDPX3426	1999	K	46	20, 59
3/4	1750	56C	90	7	CDPX3440	2471	K	51	20, 59
			180	3.5	CDPX3436	2471	K	51	20, 59
1	1750	56C	90	9.6	CDPX3545	3292	K	72	20, 59
			180	4.9	CDPX3555	3292	K	71	20, 59
1 1/2	1750	145TC	180	7.1	CDPX3575	3519	L1	81	20, 59

(a) See notes on inside back flap and pages 5-6.

HVAC Motors

Farm Duty Motors

Definite Purpose 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

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.		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	CDPWD3310	664	K	23	20,60	T56S1700
			180	1.25	TENV	CDPWD3306	664	K	24	20,60	
1/3	1750	56C	90	3.2	TENV	CDPWD3320	701	K	27	20,60	T56S1701
			180	1.6	TENV	CDPWD3316	701	K	27	20,60	
1/2	1750	56C	90	4.8	TENV	CDPWD3330	788	K	32	20,60	T56S1702
			180	2.5	TENV	CDPWD3326	788	K	32	20,60	T56S1703
3/4	1750	56C	90	7.6	TEFC	CDPWD3440	952	K	38	20	T56S1704
			180	3.7	TEFC	CDPWD3436	952	K	38	20	T56S1705
1	1750	56C	90	10	TEFC	CDPWD3445	1162	K	44	20	T56S1706
			180	5	TEFC	CDPWD3455	1162	K	44	20	T56S1707
1 1/2	1750	145TC	180	7.7	TEFC	CDPWD3575	2223	L1	66	20	
2	1750	145TC	180	9.6	TEFC	CDPWD3585	2653	L1	73	20	
3	1750	182TC	180	14	TEFC	CDPWD3603	3395	L1	116	20	
5	1750	182ATC	180	24.5	TEFC	CDPWD3605	5754	L1	157	20	

NOTE: See Tach Generators on page 301. Mounting kits on page 302.

(a) See notes on inside back flap and pages 5-6.

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. Tropicalized. Not tach adaptable.

Hp	Base Speed	NEMA Frame	Voltage D.C.		Catalog Number	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Notes (a)
			Arm.	Arm.					
1/4	1750	56C	90	2.7	CDPSWD3410	795	K	29	20
			180	1.3	CDPSWD3406	795	K	28	20
1/2	1750	56C	90	5.2	CDPSWD3430	942	K	37	20
			180	2.5	CDPSWD3426	942	K	38	20
1	1750	56C	90	9.6	CDPSWD3545	1393	K	63	20
			180	4.9	CDPSWD3555	1393	K	63	20

(a) See notes on inside back flap and pages 5-6.

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Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes

**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.		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	354	DS	11	60
.18/.25	1750	D71D	180	1.25	TENV	VP3311D	512	K	22	20,60
.25/.33	1750	D71D	180	1.6	TENV	VP3316D	541	K	28	20,60
.37/.5	1750	D71D	180	2.5	TENV	VP3326D	605	K	31	20,60
	3000	D71D	180	2.5	TEFC	VP3428D	627	K	32	20
.57/.75	1750	D80D	180	3.7	TEFC	VP3436D	735	K	41	20
	3000	D80D	180	3.6	TEFC	VP3439D	650	K	37	20
.75/1	1750	D80D	180	5	TEFC	VP3455D	894	K	46	20
	3000	D80D	180	5.1	TEFC	VP3458D	735	K	41	20
1.1/1.5	3000	D90D	180	7.7	TEFC	VP3468D	815	L1	47	20
	1750	D90D	180	7.7	TEFC	VP3575D	1649	L1	68	20
1.5/2	1750	D90D	180	9.6	TEFC	VP3585D	1967	L1	77	20
	3000	D90D	180	10	TEFC	VP3588D	1649	L1	69	20
2.2/3	1750	D112D	180	14	TEFC	VP3603D	2422	L1	122	20
3.7/5	1750	D112D	180	24.5	TEFC	VP3605D	4112	L1	165	20
B14 Face										
.15/.20	1800	D63D	180	1.1	TENV	VP7424-14	354	DS	5	60
.18/.25	1750	D71C	180	1.4	TEFC	VP3411-14	576	K	30	20
.25/.33	1750	D71C	180	1.7	TEFC	VP3416-14	714	K	31	20
1.37/1.50	3000	D71C	180	2.5	TEFC	VP3428-14	627	K	31	20
	1750	D71C	180	2.5	TEFC	VP3426-14	650	K	37	20
.56/.75	3000	D80C	180	3.6	TEFC	VP3439-14	650	K	35	20
	1750	D80C	180	3.7	TEFC	VP3436-14	735	K	39	20
.75/1	3000	D80C	180	5.1	TEFC	VP3458-14	735	K	38	20
	1750	D80C	180	5	TEFC	VP3455-14	894	K	44	20
1.1/1.5	3000	D80C	180	7.7	TEFC	VP3468-14	815	L1	43	20
	1750	D90C	180	7.7	TEFC	VP3575-14	1649	L1	71	20
1.5/2	3000	D90C	180	10.0	TEFC	VP3588-14	1649	L1	70	20
	1750	D90C	180	9.6	TEFC	VP3585-14	1967	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 301. Tach Mounting Kits are shown on page 302.

(a) See notes on inside back flap and pages 5-6.

HVAC Motors

Farm Duty Motors

Definite Purpose 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

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, 2/4 - 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	551	K	30	20,60
			24	10.6	CDP3410-V24	523	K	29	20,60
1/3	1800	56C	12	28.6	CDP3420-V12	605	K	30	20,60
			24	13.6	CDP3420-V24	577	K	30	20,60
1/2	1800	56C	12	40	CDP3430-V12	627	K	33	20,60
			24	19.6	CDP3430-V24	598	K	34	20,60
3/4	1800	56C	12	66	CDP3440-V12	900	K	42	20
		56CZ	24	29.4	CDP3440-V24	624	K	35	20
1	1800	56C	12	85.6	CDP3445-V12	1304	K	45	20
			24	34.2	CDP3445-V24	1298	K	44	20

(a) See notes on inside back flap and pages 5-6.

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)
115 VDC								
1/3	1750	56	3.2	D1151	1003	K	23	20
1/2	1750	56	4.8	D1152	1072	K	29	20
3/4	1750	56	6.6	D1153	1259	K	34	20
1	1750	56	8	D1154	1481	K	62	20
230 VDC								
1/3	1750	56	1.7	D2301	1003	K	30	20
1/2	1750	56	2.1	D2302	1075	K	29	20
3/4	1750	56	3.3	D2303	1259	K	33	20
1	1750	56	4	D2304	1481	K	61	20
1 1/2	1750	184	6.1	D2305	2602	L1	82	20

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

(a) See notes on inside back flap and pages 5-6.

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