

NEW POWER
U.S.A DC MOTORS



INDUSTRIAL MOTOR LINE



PERMANENT MAGNET DC MOTOR

<http://www.usa-newpower.com>
E-mail: service@usa-newpower.com

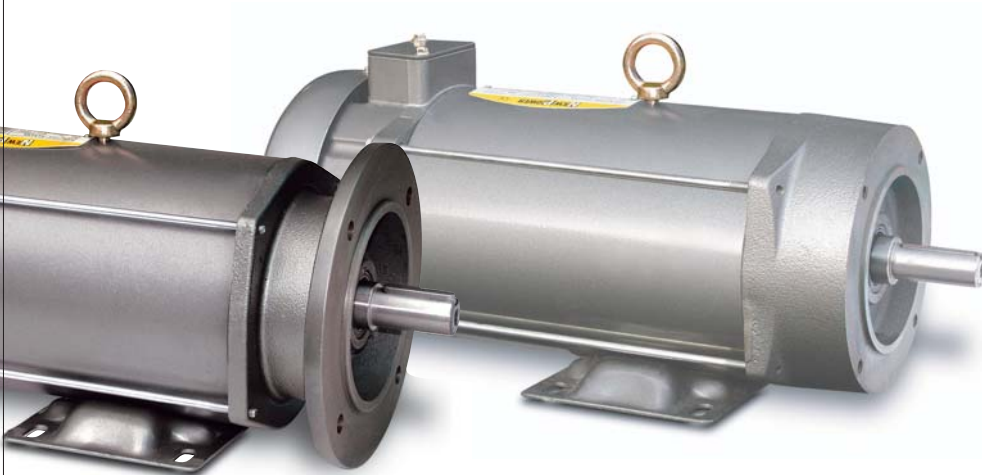
Up to speed in any variable speed application.

Whatever your needs in variable speed applications, you can trust our 200/300/400/500 series PMDC motors. Designed and built under the highest quality process for General industrial needs, our products are there to provide reliable performance for a long time. Our motors will provide constant torque over the entire speed range when properly match to the speed Controller.

When properly matched with the Speed Controllers, our motors can achieved stable Speed/ Torque regulation at near zero rpm to full speed of the motor. In addition, We can customize our mechanical or electrical parmeters to suit your needs.

For precision applications, we provide special encoder mounted on the motor shaft to achieve precise speed regulation and high torque at low speed without lengthening the motor.

0045 1/16 HP 45 W **0060** 1/12 HP 60 W **0075** 1/10 HP 75 W **0090** 1/8 HP 90 W **0120** 1/6 HP 120 W **0150** 1/5 HP 150 W **0180** 1/4 HP 180 W **0250** 1/3 HP 250 W



Magnet DC Motors

Features

1. Nema 42C-184TC face and base configurations available.
2. IEC B5, B14, D56-D100 flange mount with removable base.
3. High quality ball bearing guarantee long time operation in motor.
4. Removable brush cover for easier inspection and brush replacement.
5. Rated for use with SCR and PWM variable speed controls.
6. Low inertia armatures provide quick response.
7. Ratings include 1/16 HP to 3HP, with various rated speeds available as standard in both 90V and 180V DC designs, TEFC and TENV versions.
8. 12V/24V/36V/48V DC available.
9. Protection index: IP 54

Category No.

TENV Totally Enclose Non-Vented
TEFC Totally Enclose Fan-Cooled

Volts **A** 180V **B** 90V **C** 72V **D** 60V **E** 48V **F** 36V **G** 24V **H** 12V

RPM **18** 1750 RPM **30** 3000 RPM

02 1/4 HP 0.18 KW **03** 1/3 HP 0.25 KW **04** 1/2 HP 0.37 KW **05** 3/4 HP 0.55 KW **07** 1 HP 0.75 KW **11** 1-1/2 HP 1 KW **15** 2 HP 1.5 KW **22** 3 HP 2.2 KW

D P I - 4 07 30 H

2 TENV 1/16D1/3 HP **3** TENV 1/4D1 HP **4** TEFC 1/4D1-1/2 HP **5** TEFC 1-1/2D3 HP

I IEC **N** NEMA **S** Special **F** F90

P Permanent Magnet Motors **S** Shunt wound motors

D Direct Current Motors

Permanent magnet DIRECT CURRENT MOTORS

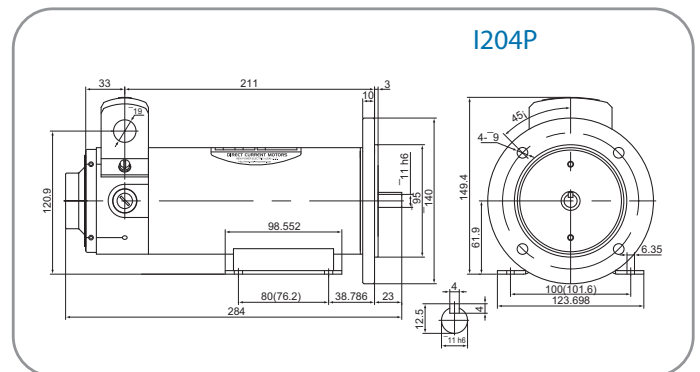
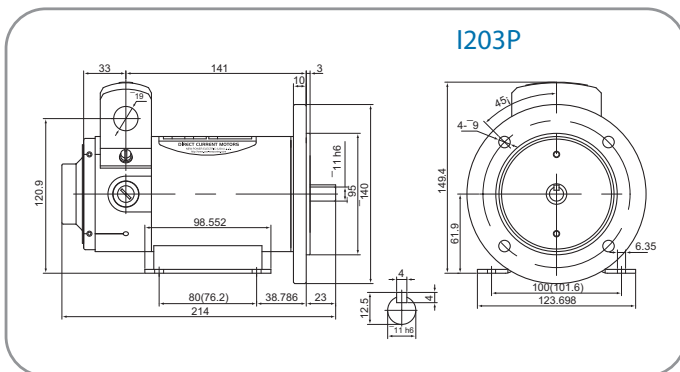
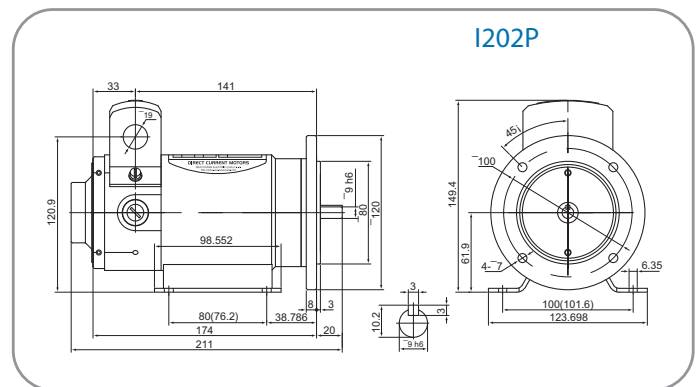
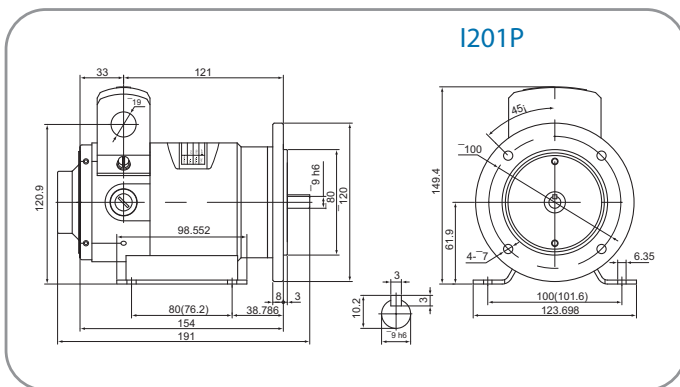
#200 TYPE IEC B5

IEC DC Permanent magnet motors for thyristor drives IP54 B5 Flange
45W~250W(1/16-1/3HP) IEC Frame size D56-D63 Flange mount with removable base

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



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
W	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
45	1/16	1750	D56	180	0.31	0.25	0.18	4.0	I 201P	DPI-2004518A
		1750	D56	90	0.63	0.25	0.18	4.0	I 201P	DPI-2004518B
60	1/12	1750	D56	180	0.42	0.33	0.24	4.0	I 201P	DPI-2006018A
		1750	D56	90	0.83	0.33	0.24	4.0	I 201P	DPI-2006018B
		3000	D56	180	0.42	0.19	0.14	4.0	I 201P	DPI-2006030A
75	1/10	3000	D56	90	0.83	0.19	0.14	4.0	I 201P	DPI-2006030B
		3000	D56	180	0.52	0.24	0.18	5.0	I 201P	DPI-2007530A
75	1/10	3000	D56	90	1.04	0.24	0.18	5.0	I 201P	DPI-2007530B
		1750	D56	180	0.52	0.41	0.30	5.0	I 202P	DPI-2007518A
90	1/8	1750	D56	90	1.04	0.41	0.30	5.0	I 202P	DPI-2007518B
		1750	D56	180	0.63	0.49	0.36	5.0	I 202P	DPI-2009018A
120	1/6	1750	D56	90	1.25	0.49	0.36	5.0	I 202P	DPI-2009018B
		3000	D56	180	0.63	0.29	0.21	5.0	I 202P	DPI-2009030A
		3000	D56	90	1.25	0.29	0.21	5.0	I 202P	DPI-2009030B
120	1/6	3000	D56	180	0.83	0.38	0.28	5.0	I 202P	DPI-2012030A
		3000	D56	90	1.67	0.38	0.28	5.0	I 202P	DPI-2012030B
120	1/6	1750	D63	180	0.83	0.65	0.48	5.0	I 203P	DPI-2012018A
		1750	D63	90	1.67	0.65	0.48	5.0	I 203P	DPI-2012018B
150	1/5	3000	D63	180	1.04	0.48	0.35	6.5	I 203P	DPI-2015030A
		3000	D63	90	2.08	0.48	0.35	6.5	I 203P	DPI-2015030B
150	1/5	1750	D63	180	1.04	0.82	0.60	6.5	I 204P	DPI-2015018A
		1750	D63	90	2.08	0.82	0.60	6.5	I 204P	DPI-2015018B
180	1/4	1750	D63	180	1.25	0.98	0.72	6.5	I 204P	DPI-2018018A
		1750	D63	90	2.50	0.98	0.72	6.5	I 204P	DPI-2018018B
		3000	D63	180	1.25	0.57	0.42	6.5	I 204P	DPI-2018030A
		3000	D63	90	2.50	0.57	0.42	6.5	I 204P	DPI-2018030B
250	1/3	3000	D63	180	1.74	0.80	0.59	6.5	I 204P	DPI-2025030A
		3000	D63	90	3.47	0.80	0.59	6.5	I 204P	DPI-2025030B



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Permanent magnet DIRECT CURRENT MOTORS

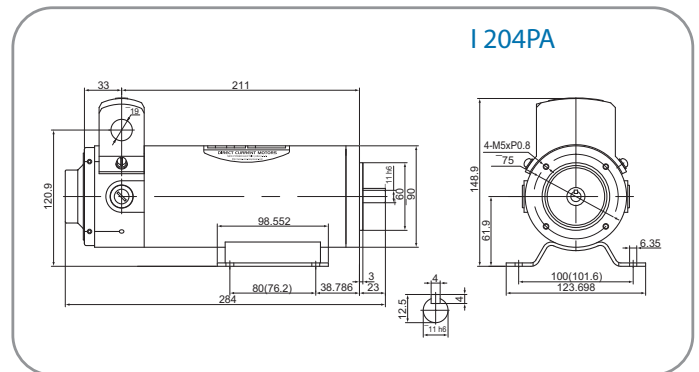
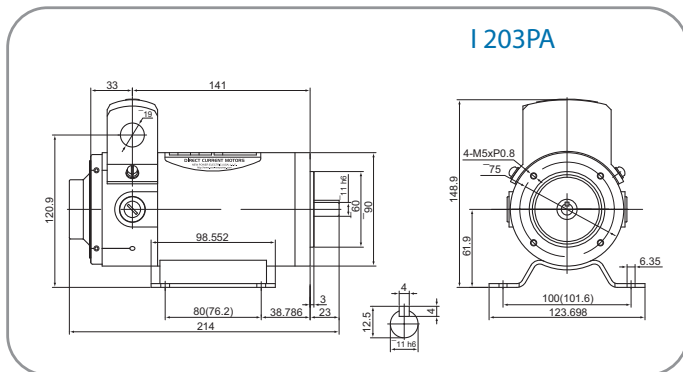
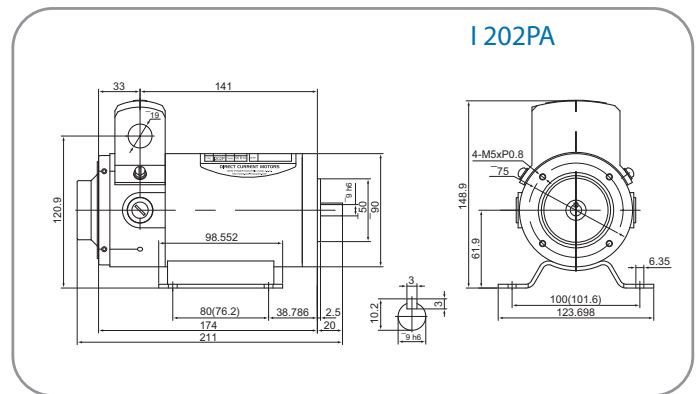
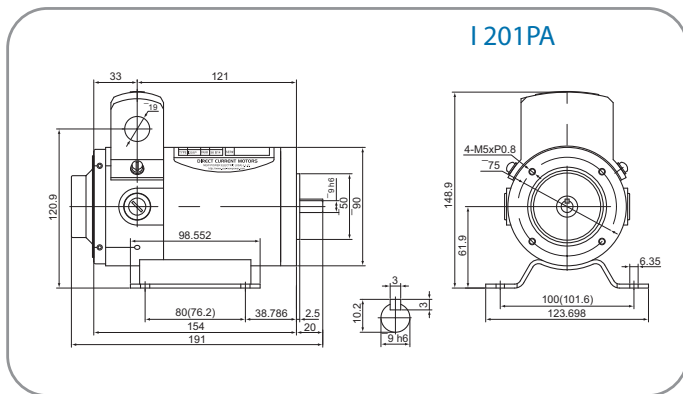
#200 TYPE IEC B14

IEC DC Permanent magnet motors for thyristor drives IP54 B14 Flange
45W~250W(1/16-1/3HP) IEC Frame size D56-D63 Flange mount with removable base

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



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
W	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
45	1/16	1750	D56	180	0.31	0.25	0.18	4.0	I 201PA	DPI-2004518A14
		1750	D56	90	0.63	0.25	0.18	4.0	I 201PA	DPI-2004518B14
60	1/12	1750	D56	180	0.42	0.33	0.24	4.0	I 201PA	DPI-2006018A14
		1750	D56	90	0.83	0.33	0.24	4.0	I 201PA	DPI-2006018B14
		3000	D56	180	0.42	0.19	0.14	4.0	I 201PA	DPI-2006030A14
75	1/10	3000	D56	90	0.83	0.19	0.14	4.0	I 201PA	DPI-2006030B14
		3000	D56	180	0.52	0.24	0.18	5.0	I 201PA	DPI-2007530A14
75	1/10	3000	D56	90	1.04	0.24	0.18	5.0	I 201PA	DPI-2007530B14
		1750	D56	180	0.52	0.41	0.30	5.0	I 202PA	DPI-2007518A14
90	1/8	1750	D56	90	1.04	0.41	0.30	5.0	I 202PA	DPI-2007518B14
		1750	D56	180	0.63	0.49	0.36	5.0	I 202PA	DPI-2009018A14
90	1/8	1750	D56	90	1.25	0.49	0.36	5.0	I 202PA	DPI-2009018B14
		3000	D56	180	0.63	0.29	0.21	5.0	I 202PA	DPI-2009030A14
		3000	D56	90	1.25	0.29	0.21	5.0	I 202PA	DPI-2009030B14
120	1/6	3000	D56	180	0.83	0.38	0.28	5.0	I 202PA	DPI-2012030A14
		3000	D56	90	1.67	0.38	0.28	5.0	I 202PA	DPI-2012030B14
120	1/6	1750	D63	180	0.83	0.65	0.48	5.0	I 203PA	DPI-2012018A14
		1750	D63	90	1.67	0.65	0.48	5.0	I 203PA	DPI-2012018B14
150	1/5	3000	D63	180	1.04	0.48	0.35	6.5	I 203PA	DPI-2015030A14
		3000	D63	90	2.08	0.48	0.35	6.5	I 203PA	DPI-2015030B14
150	1/5	1750	D63	180	1.04	0.82	0.60	6.5	I 204PA	DPI-2015018A14
		1750	D63	90	2.08	0.82	0.60	6.5	I 204PA	DPI-2015018B14
180	1/4	1750	D63	180	1.25	0.98	0.72	6.5	I 204PA	DPI-2018018A14
		1750	D63	90	2.50	0.98	0.72	6.5	I 204PA	DPI-2018018B14
		3000	D63	180	1.25	0.57	0.42	6.5	I 204PA	DPI-2018030A14
		3000	D63	90	2.50	0.57	0.42	6.5	I 204PA	DPI-2018030B14
250	1/3	3000	D63	180	1.74	0.80	0.59	6.5	I 204PA	DPI-2025030A14
		3000	D63	90	3.47	0.80	0.59	6.5	I 204PA	DPI-2025030B14



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Permanent magnet DIRECT CURRENT MOTORS

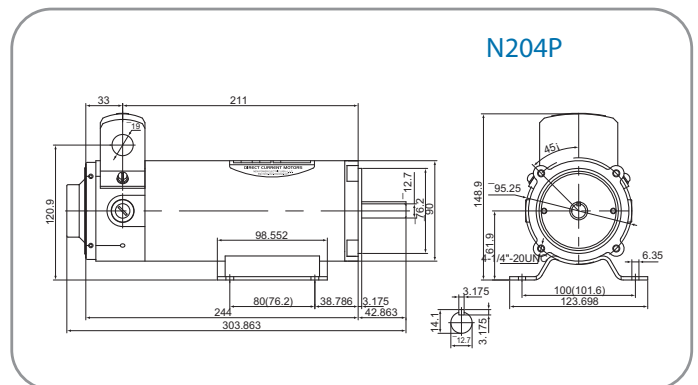
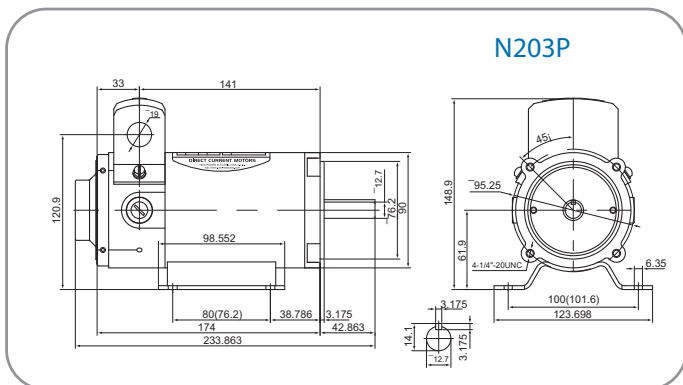
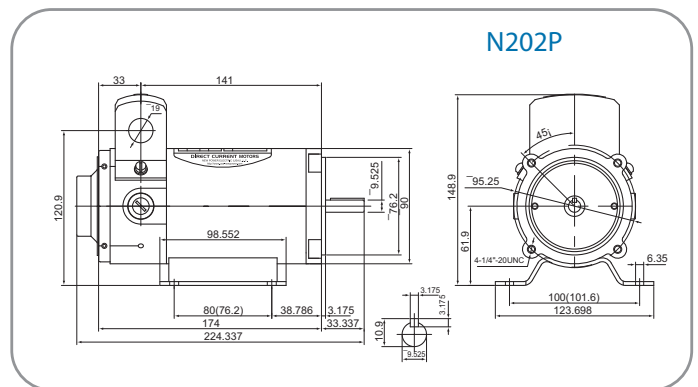
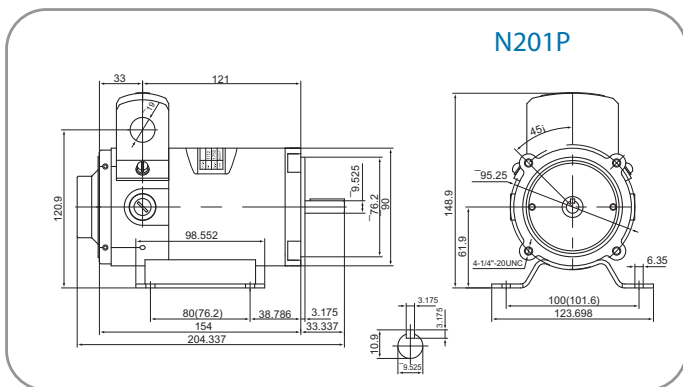
#200 TYPE NEMA 42C~48C

NEMA DC Permanent magnet motors for thyristor drives 45W~250W (1/16 HP ~ 1/3 HP) Size 42C-48C NEMA Frames Totally Enclose Non-Vented with C-face and base

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



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
W	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
45	1/16	1750	42C	180	0.31	0.25	0.18	4.0	N 201P	DPN-2004518A
		1750	42C	90	0.63	0.25	0.18	4.0	N 201P	DPN-2004518B
60	1/12	1750	42C	180	0.42	0.33	0.24	4.0	N 201P	DPN-2006018A
		1750	42C	90	0.83	0.33	0.24	4.0	N 201P	DPN-2006018B
		3000	42C	180	0.42	0.19	0.14	4.0	N 201P	DPN-2006030A
75	1/10	3000	42C	90	0.83	0.19	0.14	4.0	N 201P	DPN-2006030B
		3000	42C	180	0.52	0.24	0.18	5.0	N 201P	DPN-2007530A
75	1/10	3000	42C	90	1.04	0.24	0.18	5.0	N 201P	DPN-2007530B
		1750	42C	180	0.52	0.41	0.30	5.0	N 202P	DPN-2007518A
90	1/8	1750	42C	90	1.04	0.41	0.30	5.0	N 202P	DPN-2007518B
		1750	42C	180	0.63	0.49	0.36	5.0	N 202P	DPN-2009018A
90	1/8	1750	42C	90	1.25	0.49	0.36	5.0	N 202P	DPN-2009018B
		3000	42C	180	0.63	0.29	0.21	5.0	N 202P	DPN-2009030A
		3000	42C	90	1.25	0.29	0.21	5.0	N 202P	DPN-2009030B
120	1/6	3000	42C	180	0.83	0.38	0.28	5.0	N 202P	DPN-2012030A
		3000	42C	90	1.67	0.38	0.28	5.0	N 202P	DPN-2012030B
120	1/6	1750	48C	180	0.83	0.65	0.48	5.0	N 203P	DPN-2012018A
		1750	48C	90	1.67	0.65	0.48	5.0	N 203P	DPN-2012018B
150	1/5	3000	48C	180	1.04	0.48	0.35	6.5	N 203P	DPN-2015030A
		3000	48C	90	2.08	0.48	0.35	6.5	N 203P	DPN-2015030B
150	1/5	1750	48C	180	1.04	0.82	0.60	6.5	N 204P	DPN-2015018A
		1750	48C	90	2.08	0.82	0.60	6.5	N 204P	DPN-2015018B
180	1/4	1750	48C	180	1.25	0.98	0.72	6.5	N 204P	DPN-2018018A
		1750	48C	90	2.50	0.98	0.72	6.5	N 204P	DPN-2018018B
		3000	48C	180	1.25	0.57	0.42	6.5	N 204P	DPN-2018030A
250	1/3	3000	48C	90	2.50	0.57	0.42	6.5	N 204P	DPN-2018030B
		3000	48C	180	1.74	0.80	0.59	6.5	N 204P	DPN-2025030A
250	1/3	3000	48C	90	3.47	0.80	0.59	6.5	N 204P	DPN-2025030B



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

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Permanent magnet DIRECT CURRENT MOTORS

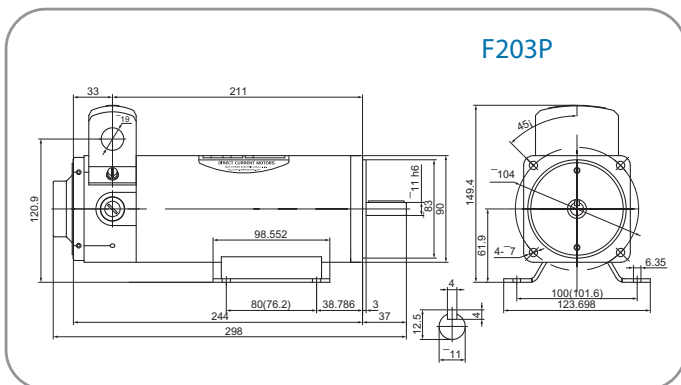
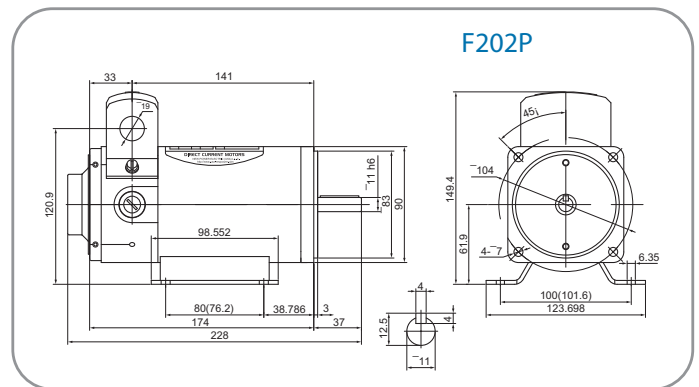
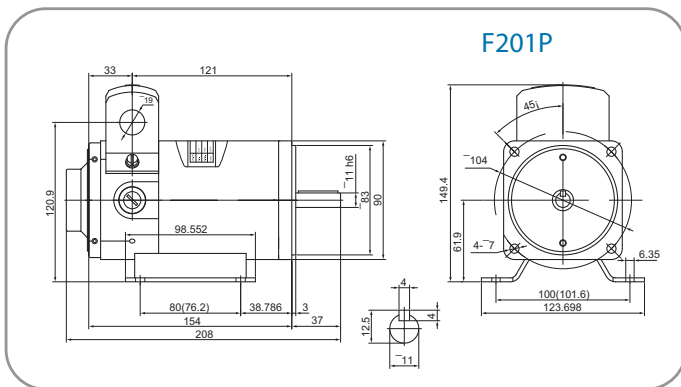


#200 TYPE F90

DC Permanent magnet motors IP54 with 45W~250W (1/16 HP ~ 1/3 HP)
F90 Flange mount , removable base available

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

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
W	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
45	1/16	1750	F90	180	0.31	0.25	0.18	4.0	F 201P	DPF-2004518A
		1750	F90	90	0.63	0.25	0.18	4.0	F 201P	DPF-2004518B
60	1/12	1750	F90	180	0.42	0.33	0.24	4.0	F 201P	DPF-2006018A
		1750	F90	90	0.83	0.33	0.24	4.0	F 201P	DPF-2006018B
		3000	F90	180	0.42	0.19	0.14	4.0	F 201P	DPF-2006030A
		3000	F90	90	0.83	0.19	0.14	4.0	F 201P	DPF-2006030B
75	1/10	3000	F90	180	0.52	0.24	0.18	5.0	F 201P	DPF-2007530A
		3000	F90	90	1.04	0.24	0.18	5.0	F 201P	DPF-2007530B
75	1/10	1750	F90	180	0.52	0.41	0.30	5.0	F 202P	DPF-2007518A
		1750	F90	90	1.04	0.41	0.30	5.0	F 202P	DPF-2007518B
90	1/8	1750	F90	180	0.63	0.49	0.36	5.0	F 202P	DPF-2009018A
		1750	F90	90	1.25	0.49	0.36	5.0	F 202P	DPF-2009018B
		3000	F90	180	0.63	0.29	0.21	5.0	F 202P	DPF-2009030A
		3000	F90	90	1.25	0.29	0.21	5.0	F 202P	DPF-2009030B
120	1/6	1750	F90	180	0.83	0.65	0.48	5.0	F 202P	DPF-2012018A
		1750	F90	90	1.67	0.65	0.48	5.0	F 202P	DPF-2012018B
		3000	F90	180	0.83	0.38	0.28	5.0	F 202P	DPF-2012030A
		3000	F90	90	1.67	0.38	0.28	5.0	F 202P	DPF-2012030B
150	1/5	3000	F90	180	1.04	0.48	0.35	6.5	F 202P	DPF-2015030A
		3000	F90	90	2.08	0.48	0.35	6.5	F 202P	DPF-2015030B
150	1/5	1750	F90	180	1.04	0.82	0.60	6.5	F 203P	DPF-2015018A
		1750	F90	90	2.08	0.82	0.60	6.5	F 203P	DPF-2015018B
180	1/4	1750	F90	180	1.25	0.98	0.72	6.5	F 203P	DPF-2018018A
		1750	F90	90	2.50	0.98	0.72	6.5	F 203P	DPF-2018018B
		3000	F90	180	1.25	0.57	0.42	6.5	F 203P	DPF-2018030A
		3000	F90	90	2.50	0.57	0.42	6.5	F 203P	DPF-2018030B
250	1/3	3000	F90	180	1.74	0.80	0.59	6.5	F 203P	DPF-2025030A
		3000	F90	90	3.47	0.80	0.59	6.5	F 203P	DPF-2025030B



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Permanent magnet DIRECT CURRENT MOTORS

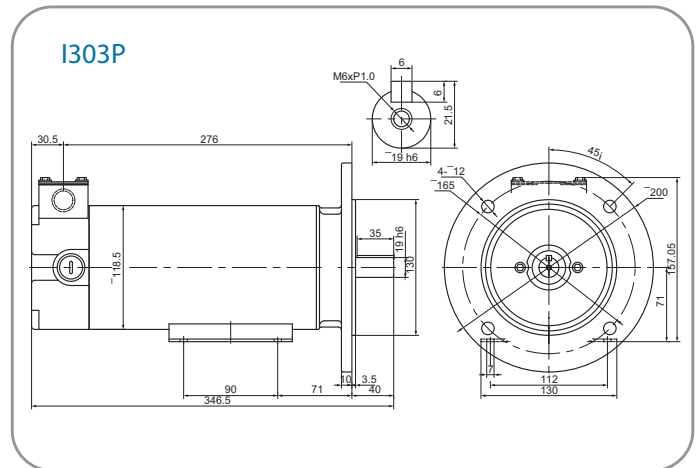
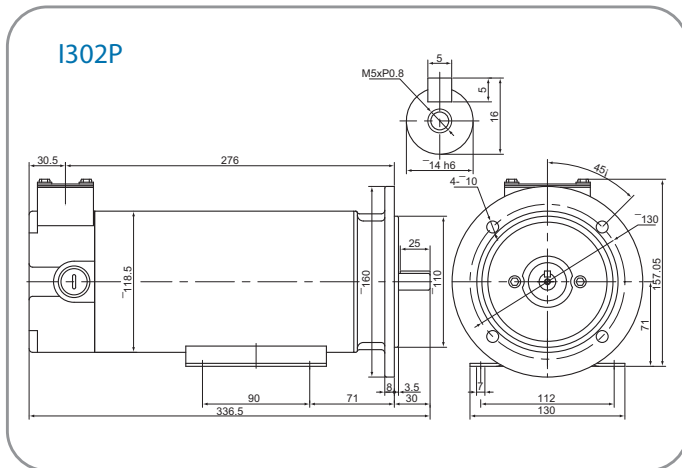
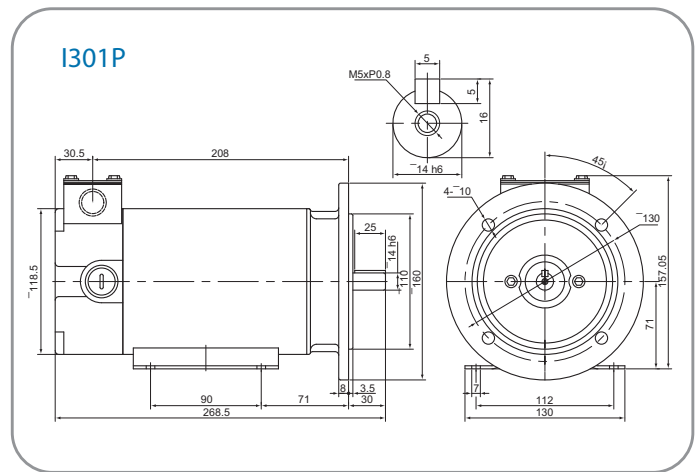
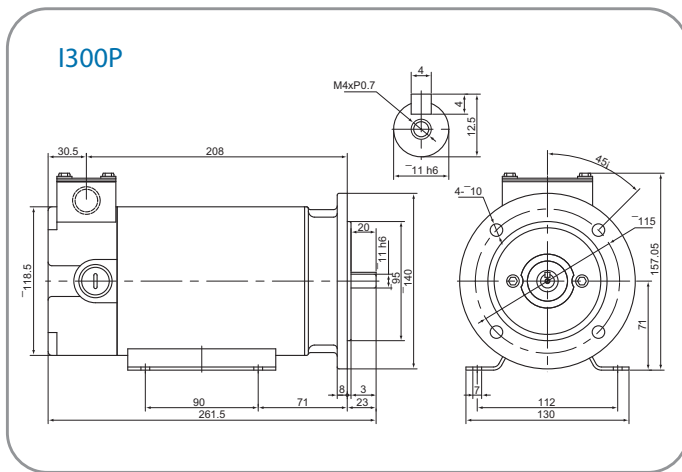


#300 TYPE IEC B5

IEC DC Permanent magnet motors for thyristor drives IP54 B5 Flange
0.18KW~0.75KW (1/4 HP ~ 1 HP) IEC Frame size D63-D80 Flange mount with removable base

*Application: Conveyors, mixer, packaging machinery, electric wheelchair.

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
0.18	1/4	1750	D63	180	1.40	1.02	0.75	11.0	I 300P	DPI-30218A
		1750	D63	90	2.50	1.02	0.75	11.0	I 300P	DPI-30218B
0.18	1/4	1750	D71	180	1.40	1.02	0.75	11.0	I 301P	DPI-30218A-A
		1750	D71	90	2.50	1.02	0.75	11.0	I 301P	DPI-30218B-A
0.25	1/3	1750	D71	180	1.70	1.36	1.00	11.0	I 301P	DPI-30318A
		1750	D71	90	3.20	1.36	1.00	11.0	I 301P	DPI-30318B
		3000	D71	180	1.70	0.79	0.58	11.0	I 301P	DPI-30330A
		3000	D71	90	2.80	0.79	0.58	11.0	I 301P	DPI-30330B
0.37	1/2	3000	D71	180	2.50	1.19	0.87	12.0	I 301P	DPI-30430A
		3000	D71	90	4.20	1.19	0.87	12.0	I 301P	DPI-30430B
0.37	1/2	1750	D71	180	2.50	2.04	1.50	14.0	I 302P	DPI-30418A
		1750	D71	90	4.80	2.04	1.50	14.0	I 302P	DPI-30418B
0.56	3/4	1750	D80	180	3.70	3.06	2.25	15.0	I 303P	DPI-30518A
		1750	D80	90	7.40	3.06	2.25	15.0	I 303P	DPI-30518B
		3000	D80	180	3.70	1.78	1.31	15.0	I 303P	DPI-30530A
		3000	D80	90	7.40	1.78	1.31	15.0	I 303P	DPI-30530B
0.75	1	3000	D80	180	5.00	2.39	1.76	16.0	I 303P	DPI-30730A
		3000	D80	90	10.00	2.39	1.76	16.0	I 303P	DPI-30730B



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.
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Permanent magnet DIRECT CURRENT MOTORS

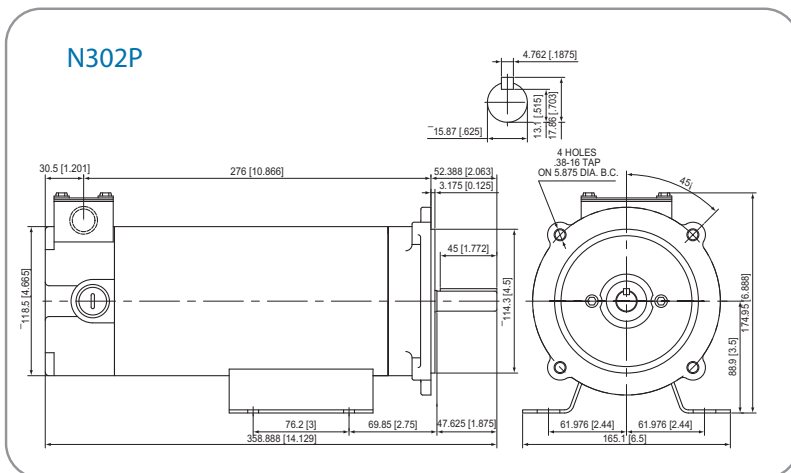
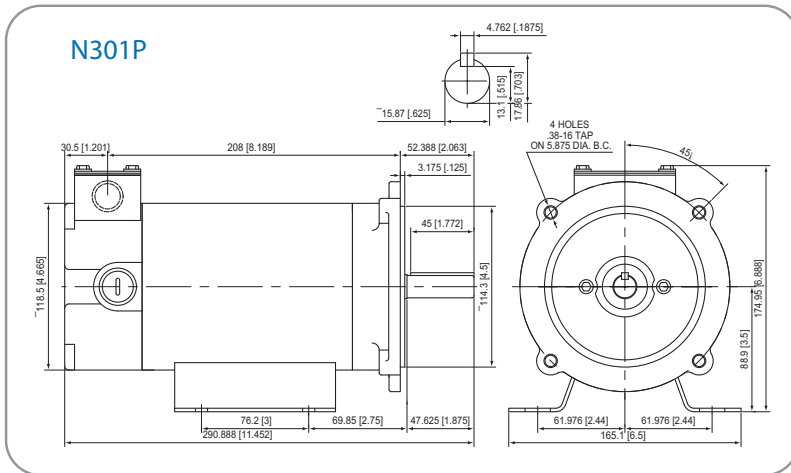
#300 TYPE NEMA 56C

NEMA DC Permanent magnet motors for thyristor drives 0.18KW~0.75KW (1/4 HP ~ 1 HP) Size
56C NEMA Frames Totally-Enclose Non-Vented with C-face and base

*Application: Conveyors, mixer, packaging machinery, electric wheelchair.



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
0.18	1/4	1750	56C	180	1.40	1.02	0.75	11.0	N 301P	DPN-30218A
		1750	56C	90	2.50	1.02	0.75	11.0	N 301P	DPN-30218B
0.25	1/3	1750	56C	180	1.70	1.36	1.00	11.0	N 301P	DPN-30318A
		1750	56C	90	3.20	1.36	1.00	11.0	N 301P	DPN-30318B
		3000	56C	180	1.70	0.79	0.58	11.0	N 301P	DPN-30330A
		3000	56C	90	2.80	0.79	0.58	11.0	N 301P	DPN-30330B
0.37	1/2	3000	56C	180	2.50	1.19	0.87	12.0	N 301P	DPN-30430A
		3000	56C	90	4.20	1.19	0.87	12.0	N 301P	DPN-30430B
0.37	1/2	1750	56C	180	2.50	2.04	1.50	14.0	N 302P	DPN-30418A
		1750	56C	90	4.80	2.04	1.50	14.0	N 302P	DPN-30418B
0.56	3/4	1750	56C	180	3.70	3.06	2.25	15.0	N 302P	DPN-30518A
		1750	56C	90	7.40	3.06	2.25	15.0	N 302P	DPN-30518B
		3000	56C	180	3.70	1.78	1.31	15.0	N 302P	DPN-30530A
		3000	56C	90	7.40	1.78	1.31	15.0	N 302P	DPN-30530B
0.75	1	3000	56C	180	5.00	2.39	1.76	16.0	N 302P	DPN-30730A
		3000	56C	90	10.00	2.39	1.76	16.0	N 302P	DPN-30730B



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Permanent magnet DIRECT CURRENT MOTORS

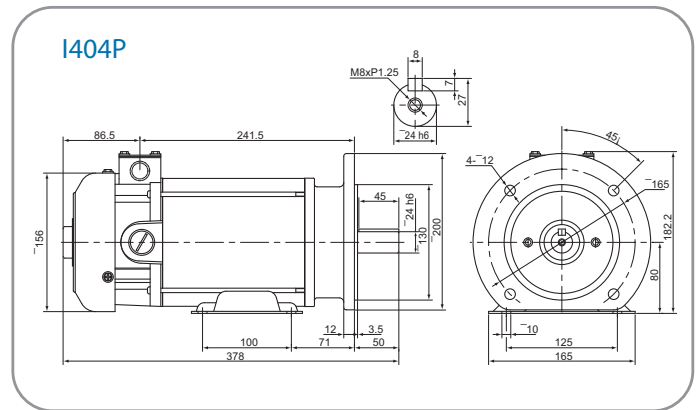
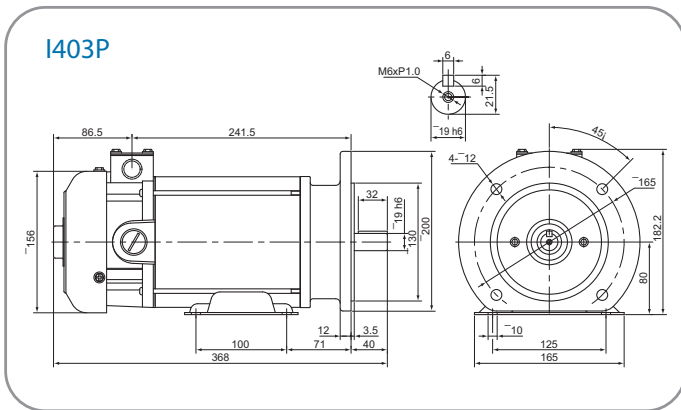
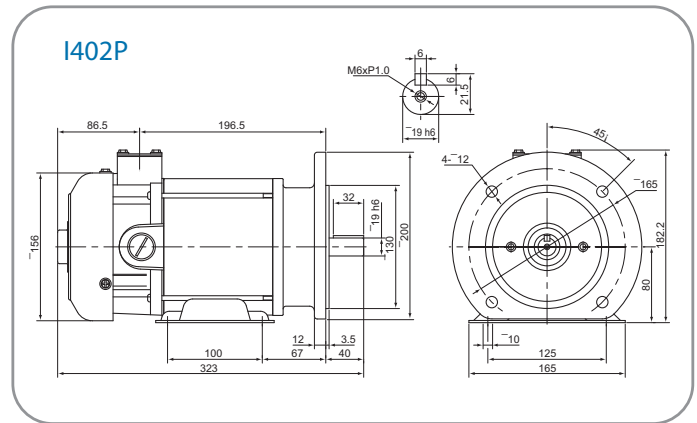
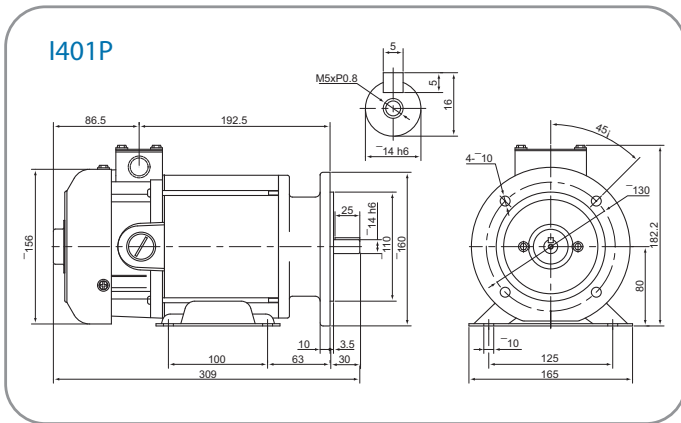


#400 TYPE IEC B5

IEC DC Permanent magnet motors for thyristor drives IP54 B5 Flange
0.18KW~1.1KW (1/4 HP ~ 1.5HP) IEC Frame size D71-D90 Flange mount with removable base

*Application: Conveyors, printing, plastic machinery, food processing and feeder.

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
0.18	1/4	1750	D71	180 V	1.4	1.02	0.75	12.0	I 401P	DPI-40218A
		1750	D71	90 V	2.5	1.02	0.75	12.0	I 401P	DPI-40218B
0.25	1/3	1750	D71	180 V	1.7	1.36	1.00	12.0	I 401P	DPI-40318A
		1750	D71	90 V	3.2	1.36	1.00	12.0	I 401P	DPI-40318B
		3000	D71	180 V	2.2	0.79	0.58	12.0	I 401P	DPI-40330A
0.37	1/2	3000	D71	90 V	2.8	0.79	0.58	12.0	I 401P	DPI-40330B
		1750	D71	180 V	2.5	2.04	1.50	14.0	I 401P	DPI-40418A
		1750	D71	90 V	4.8	2.04	1.50	14.0	I 401P	DPI-40418B
0.56	3/4	3000	D71	180 V	2.5	1.19	0.87	13.0	I 401P	DPI-40430A
		3000	D71	90 V	4.2	1.19	0.87	13.0	I 401P	DPI-40430B
		3000	D80	180 V	3.1	1.78	1.31	14.0	I 402P	DPI-40530A
0.56	3/4	3000	D80	90 V	6.3	1.78	1.31	14.0	I 402P	DPI-40530B
		1750	D80	180 V	3.7	3.06	2.25	20.0	I 403P	DPI-40518A
0.56	3/4	1750	D80	90 V	7.0	3.06	2.25	20.0	I 403P	DPI-40518B
		1750	D80	180 V	5.0	4.08	3.00	23.0	I 403P	DPI-40718A
0.75	1	1750	D80	90 V	10.0	4.08	3.00	23.0	I 403P	DPI-40718B
		3000	D80	180 V	5.1	2.38	1.75	16.0	I 403P	DPI-40730A
		3000	D80	90 V	8.4	2.38	1.75	16.0	I 403P	DPI-40730B
1.1	1.5	3000	D90	180 V	8.0	3.57	2.62	19.0	I 404P	DPI-41130A



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.
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Permanent magnet DIRECT CURRENT MOTORS

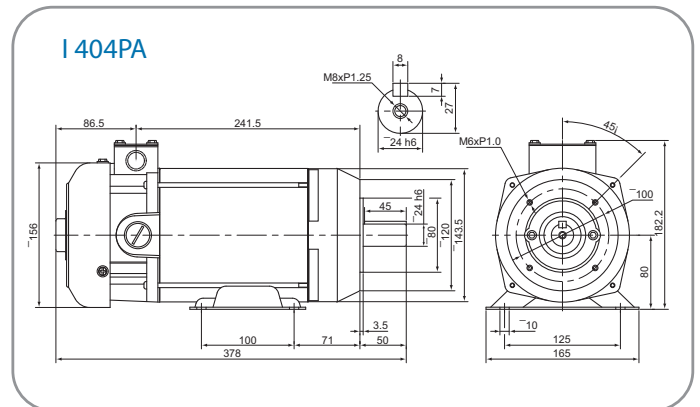
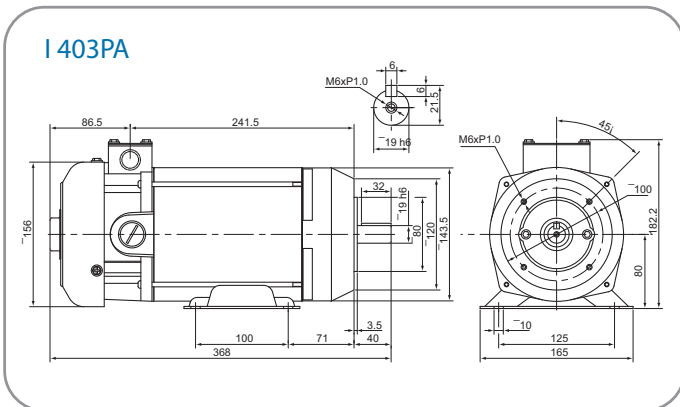
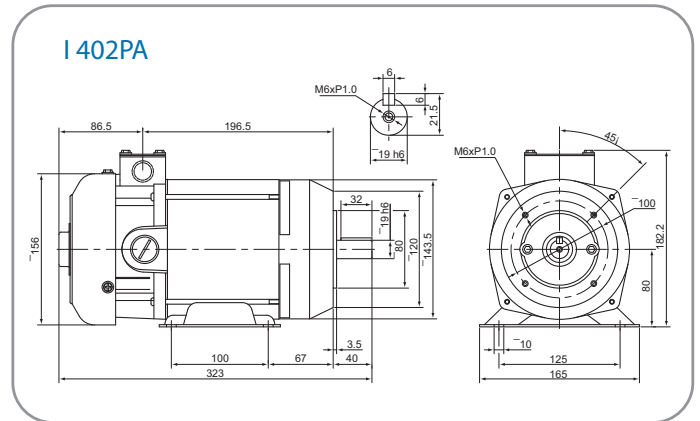
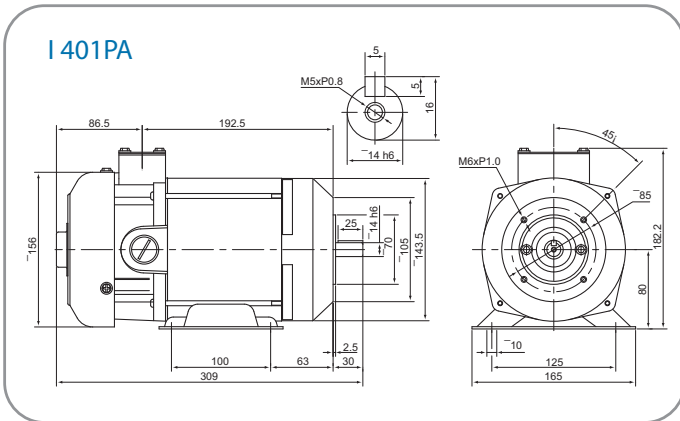


#400 TYPE IEC B14

IEC DC Permanent magnet motors for thyristor drives IP54 B14 Flange
0.18KW~1.1KW (1/4 HP ~ 1.5 HP) IEC Frame size D71-D90 Flange mount with removable base

*Application: Conveyors, printing, plastic machinery, food processing and feeder.

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
0.18	1/4	1750	D71	180 V	1.4	1.02	0.75	12.0	I 401PA	DPI-40218A14
		1750	D71	90 V	2.5	1.02	0.75	12.0	I 401PA	DPI-40218B14
0.25	1/3	1750	D71	180 V	1.7	1.36	1.00	12.0	I 401PA	DPI-40318A14
		1750	D71	90 V	3.2	1.36	1.00	12.0	I 401PA	DPI-40318B14
		3000	D71	180 V	2.2	0.79	0.58	12.0	I 401PA	DPI-40330A14
		3000	D71	90 V	2.8	0.79	0.58	12.0	I 401PA	DPI-40330B14
0.37	1/2	1750	D71	180 V	2.5	2.04	1.50	14.0	I 401PA	DPI-40418A14
		1750	D71	90 V	4.8	2.04	1.50	14.0	I 401PA	DPI-40418B14
		3000	D71	180 V	2.5	1.19	0.87	13.0	I 401PA	DPI-40430A14
		3000	D71	90 V	4.2	1.19	0.87	13.0	I 401PA	DPI-40430B14
0.56	3/4	3000	D80	180 V	3.1	1.78	1.31	14.0	I 402PA	DPI-40530A14
		3000	D80	90 V	6.3	1.78	1.31	14.0	I 402PA	DPI-40530B14
0.56	3/4	1750	D80	180 V	3.7	3.06	2.25	20.0	I 403PA	DPI-40518A14
		1750	D80	90 V	7.0	3.06	2.25	20.0	I 403PA	DPI-40518B14
0.75	1	1750	D80	180 V	5.0	4.08	3.00	23.0	I 403PA	DPI-40718A14
		1750	D80	90 V	10.0	4.08	3.00	23.0	I 403PA	DPI-40718B14
		3000	D80	180 V	5.1	2.38	1.75	16.0	I 403PA	DPI-40730A14
		3000	D80	90 V	8.4	2.38	1.75	16.0	I 403PA	DPI-40730B14
1.1	1.5	3000	D90	180 V	8.0	3.57	2.62	19.0	I 404PA	DPI-41130A14



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

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Permanent magnet DIRECT CURRENT MOTORS

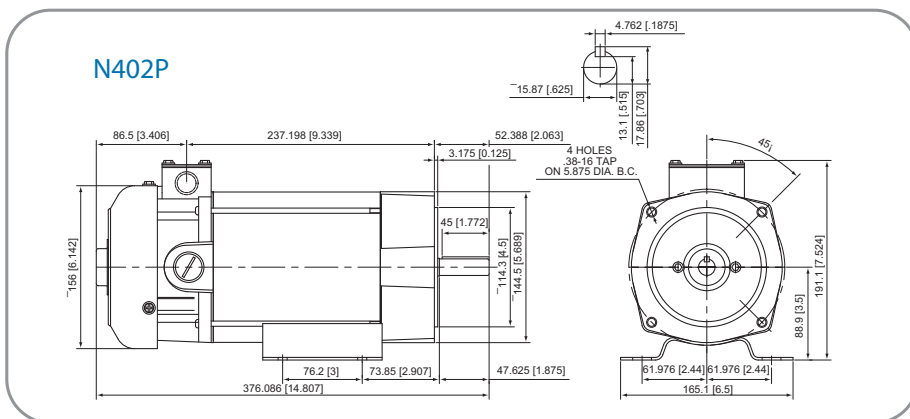
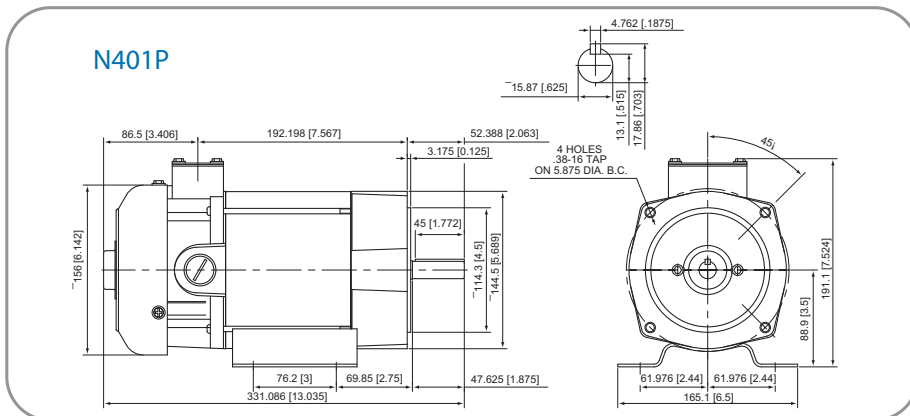
#400 TYPE NEMA

NEMA DC Permanent magnet motors for thyristor drives 0.18KW~1.1KW (1/4 HP ~ 1.5 HP) Size 56C NEMA Frames totally-enclosed fan-cooled with C-face and base

*Application: Conveyors, printing, plastic machinery, food processing and feeder.



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
0.18	1/4	1750	56C	180 V	1.4	1.02	0.75	12.0	N 401P	DPN-40218A
		1750	56C	90 V	2.5	1.02	0.75	12.0	N 401P	DPN-40218B
0.25	1/3	1750	56C	180 V	1.7	1.36	1.00	12.0	N 401P	DPN-40318A
		1750	56C	90 V	3.2	1.36	1.00	12.0	N 401P	DPN-40318B
		3000	56C	180 V	2.2	0.79	0.58	12.0	N 401P	DPN-40330A
		3000	56C	90 V	2.8	0.79	0.58	12.0	N 401P	DPN-40330B
0.37	1/2	1750	56C	180 V	2.5	2.04	1.50	14.0	N 401P	DPN-40418A
		1750	56C	90 V	4.8	2.04	1.50	14.0	N 401P	DPN-40418B
		3000	56C	180 V	2.5	1.19	0.87	13.0	N 401P	DPN-40430A
		3000	56C	90 V	4.2	1.19	0.87	13.0	N 401P	DPN-40430B
0.56	3/4	3000	56C	180 V	3.1	1.78	1.31	14.0	N 401P	DPN-40530A
		3000	56C	90 V	6.3	1.78	1.31	14.0	N 401P	DPN-40530B
0.56	3/4	1750	56C	180 V	3.7	3.06	2.25	20.0	N 402P	DPN-40518A
		1750	56C	90 V	7.0	3.06	2.25	20.0	N 402P	DPN-40518B
0.75	1	1750	56C	180 V	5.0	4.08	3.00	23.0	N 402P	DPN-40718A
		1750	56C	90 V	10.0	4.08	3.00	23.0	N 402P	DPN-40718B
		3000	56C	180 V	5.1	2.38	1.75	16.0	N 402P	DPN-40730A
		3000	56C	90 V	8.4	2.38	1.75	16.0	N 402P	DPN-40730B
1.1	1.5	3000	56C	180 V	8.0	3.57	2.62	19.0	N 402P	DPN-41130A



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

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Permanent magnet DIRECT CURRENT MOTORS

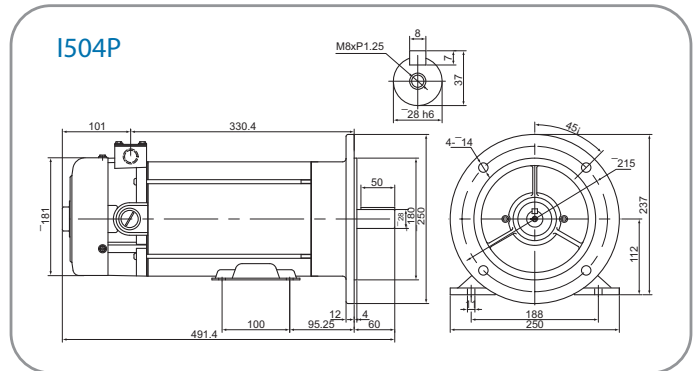
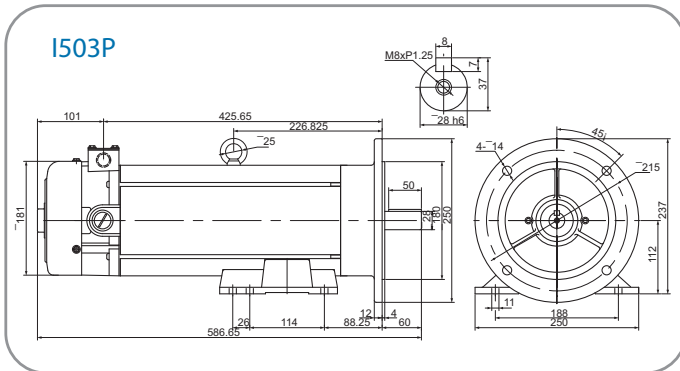
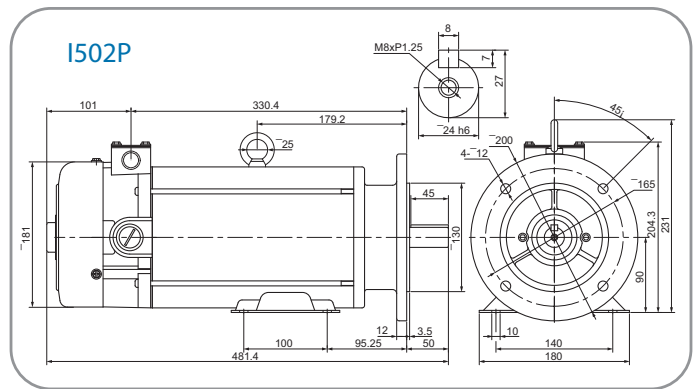
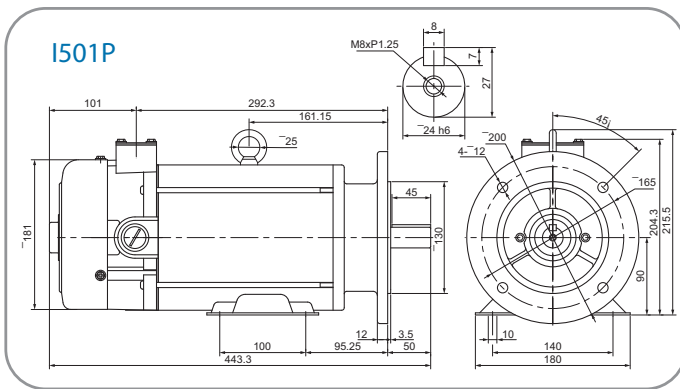
#500 TYPE IEC B5

IEC DC Permanent magnet motors for thyristor drives IP54 B5 Flange
1.1KW~2.2KW (1.5 HP ~ 3 HP) IEC Frame size D90-D100 Flange mount with removable base

*Application:Conveyors, printing, plastic machinery, food processing and feeder.



Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
1.1	1.5	1750	D90	180 V	7.7	6.12	4.5	25	I 501P	DPI-51118A
1.5	2	1750	D90	180 V	9.6	8.16	6	29	I 502P	DPI-51518A
		3000	D90	180 V	11.4	4.76	3.5	33	I 502P	DPI-51530A
2.2	3	1750	D100	180 V	14.0	9.00	6.64	40	I 503P	DPI-52218A
		3000	D100	180V	14.0	5.25	3.87	35	I 504P	DPI-52230A



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Permanent magnet DIRECT CURRENT MOTORS

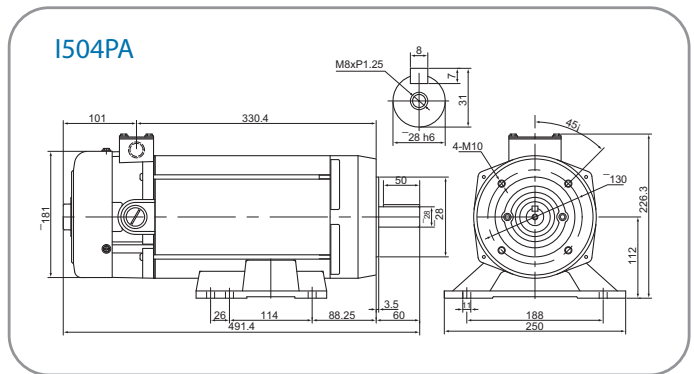
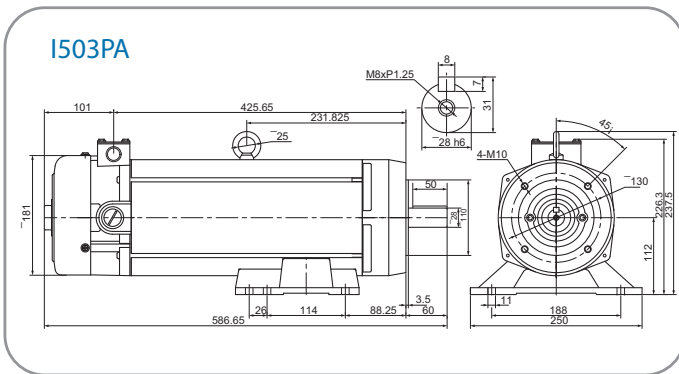
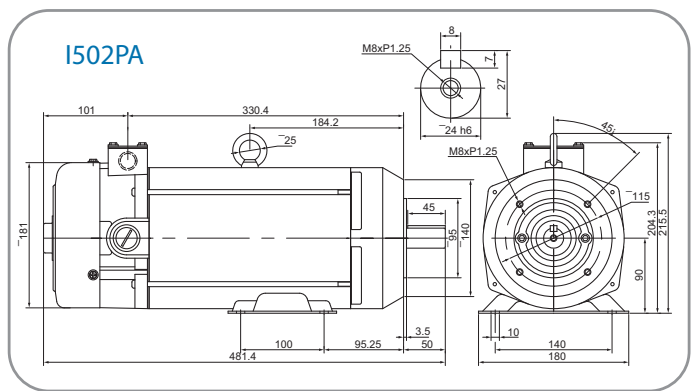
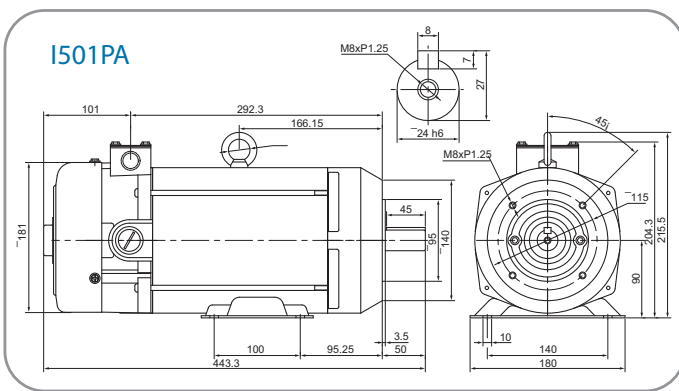


#500 TYPE IEC B14

IEC DC Permanent magnet motors for thyristor drives IP54 B14 Flange
1.1KW~2.2KW (1.5 HP ~ 3 HP) IEC Frame size D90-D100 Flange mount with removable base

*Application:Conveyors, printing, plastic machinery, food processing and feeder.

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
1.1	1.5	1750	D90	180 V	7.7	6.12	4.5	25	I 501PA	DPI-51118A14
1.5	2	1750	D90	180 V	9.6	8.16	6	29	I 502PA	DPI-51518A14
		3000	D90	180 V	11.4	4.76	3.5	33	I 502PA	DPI-51530A14
2.2	3	1750	D100	180 V	14.0	9.00	6.64	40	I 503PA	DPI-52218A14
		3000	D100	180 V	14.0	5.25	3.87	35	I 504PA	DPI-52230A14



1.Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.
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Permanent magnet DIRECT CURRENT MOTORS

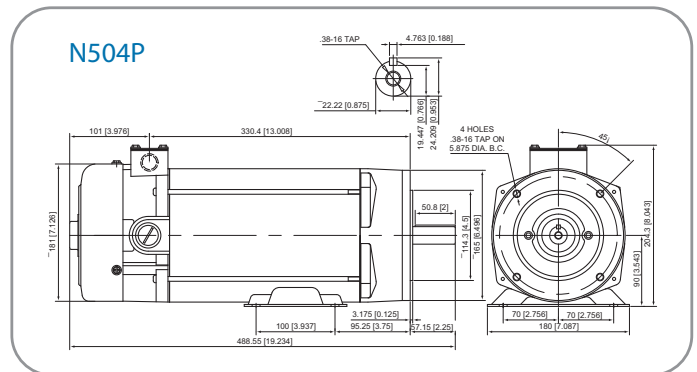
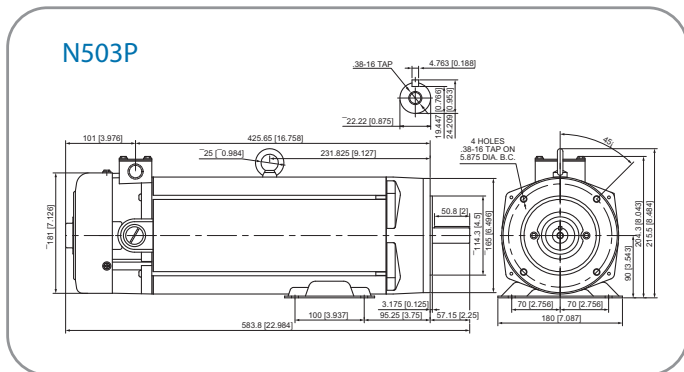
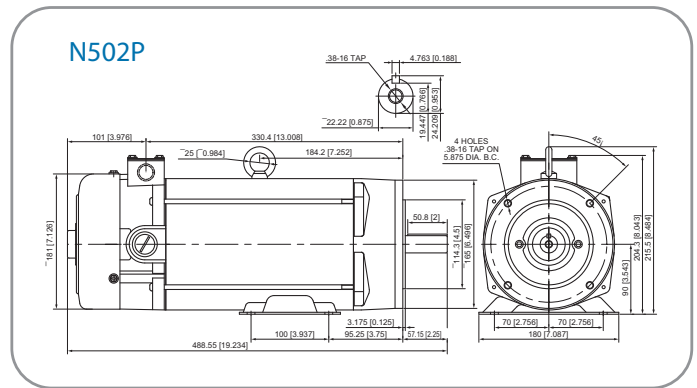
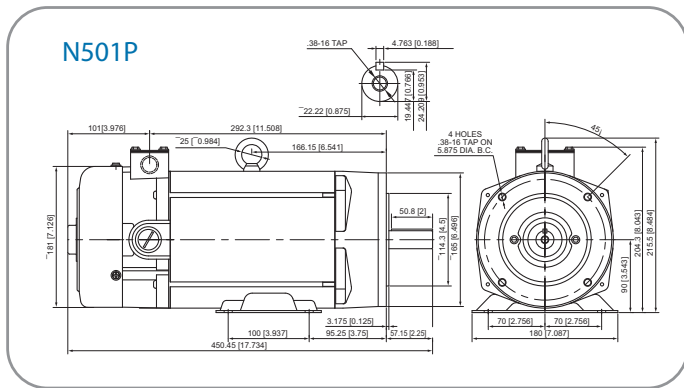
#500 TYPE NEMA 145TC



DC Permanent magnet motors for thyristor drives 1.1KW~2.2KW (1.5 HP ~ 3 HP) Nema 145TC totally-enclosed fan-cooled with C-face and base

*Application:Conveyors, printing, plastic machinery, food processing and feeder.

Ratings With form factor		Base Speed R.P.M.	Motor Frame	Armature		Toque		Motors Weight Kgs	Motors Type	Motors Catalog Number
KW	HP			Volts	Fill Load Amps	Nm	Lb.Ft			
1.1	1.5	1750	145TC	180 V	7.7	6.12	4.5	25	N 501P	DPN-51118A
1.5	2	1750	145TC	180 V	9.6	8.16	6	29	N 502P	DPN-51518A
		3000	145TC	180 V	11.4	4.76	3.5	33	N 502P	DPN-51530A
2.2	3	1750	145TC	180 V	14.0	9.00	6.64	40	N 503P	DPN-52218A
		3000	145TC	180 V	14.0	5.25	3.87	35	N 504P	DPN-52230A



1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

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Permanent magnet DIRECT CURRENT MOTORS

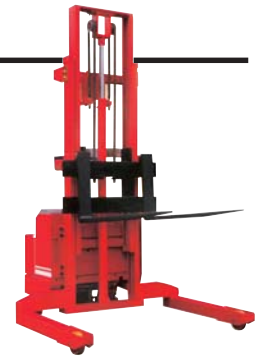
DPS TYPE

CUSTOM REQUIREMENTS

We can tailor our NEW POWER DPS motor to meet your special requirements. Be it mounting configuration or special voltages (12/24/36/48) we can do it to your satisfaction.

Our products are used in many different applications. NEW POWER DPS motor can be found in electric car, electric wheelchair, electric golfcar, Treadmill, medical equipment ,elevator, outdoor conveyor system, Mill Machinery, forklift and many more.

Customer satisfaction is our primary goal. You can trust NEW POWER DPS quality for all your special needs. Please fill our the attached questionnaire form.

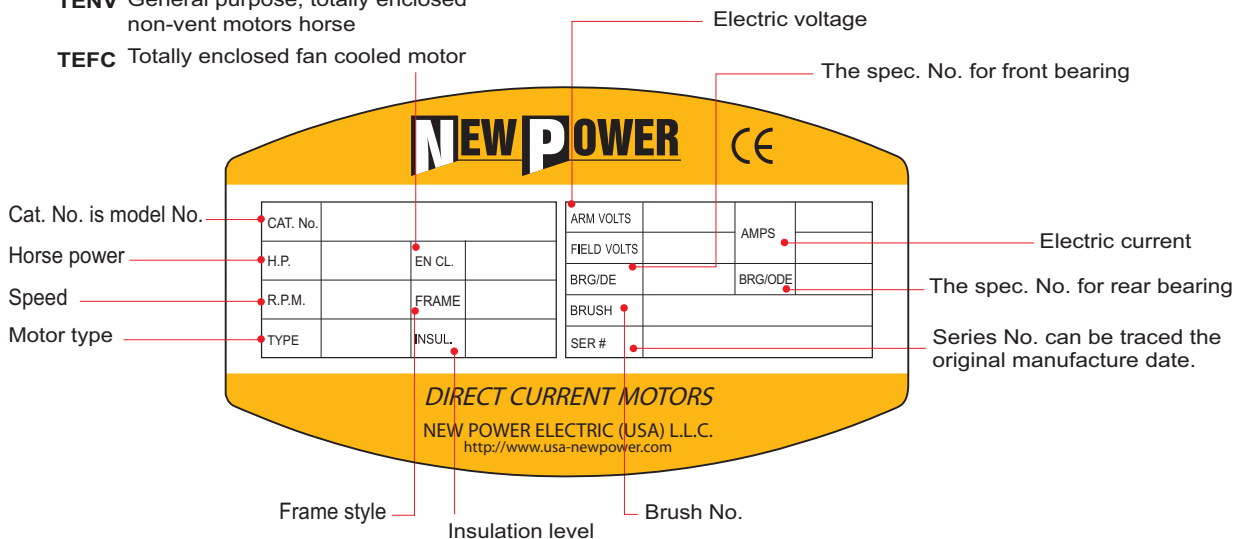


NAMEPLATE



TENV General purpose, totally enclosed non-vent motors horse

TEFC Totally enclosed fan cooled motor

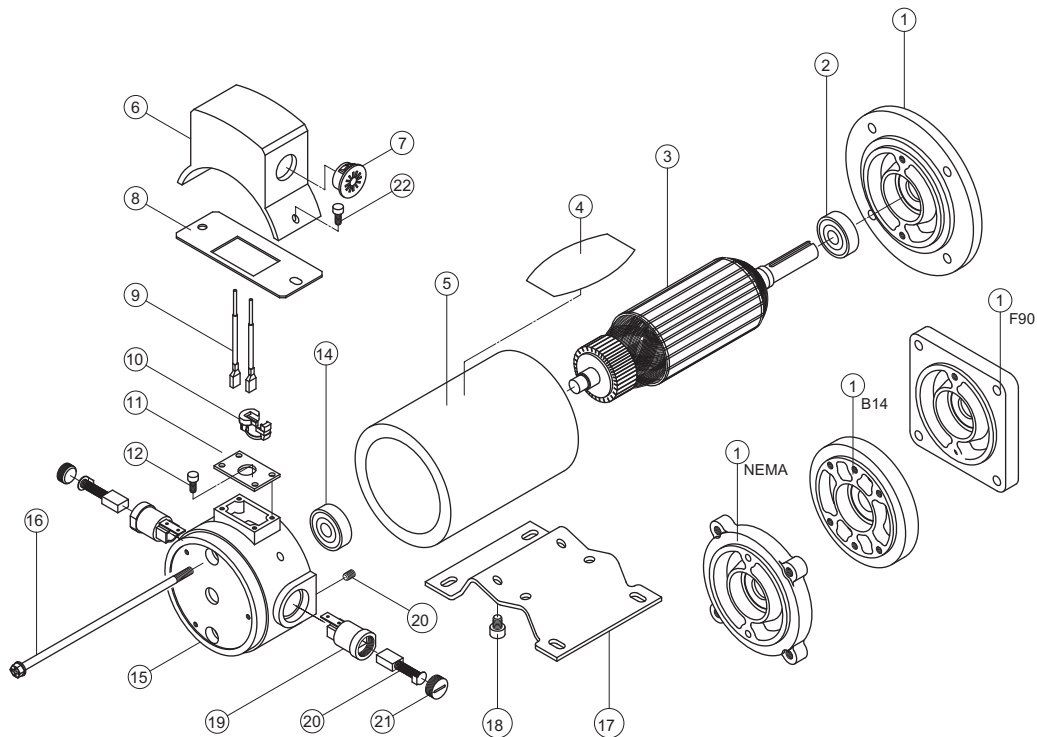


1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

2. The seller reserves the right to make any modification without advanced notice to customers upon the design or appearance shape for all New Power products.

Permanent magnet DIRECT CURRENT MOTORS

PARTS #200 TYPE



NO.	Accessories	Num.	Note.
1	Motor Front Cover	1	IEC-B5
1	Motor Front Cover	1	IEC-B14
1	Motor Front Cover	1	NEMA
1	Motor Front Cover	1	F90
2	Bearing	1	6202ZZ
3	Armature	1	
4	Nameplate	1	
5	Motor House	1	
6	Conduit Box Lid	1	
7	Snap Bushing	1	RSB-19
8	Packing	1	
9	Wire	2	White x1, Blackx1
10	Strain Relief Bushing	1	SR-6P3

NO.	Accessories	Num.	Note.
11	Conduit Box Lid	1	
12	Screw	4	M4 x 12
13	Screw	2	M4 x 6
14	Bearing	1	6202ZZ
15	Motor Rear Cover	1	
16	Screw Nut	2	
17	Mount Foot	1	
18	Screw Nut	4	
19	Brush Holder	2	
20	Brush	2	
21	Brush Cap	2	
22	Screw	2	M5 x 12



IEC B5



IEC B14



NEMA

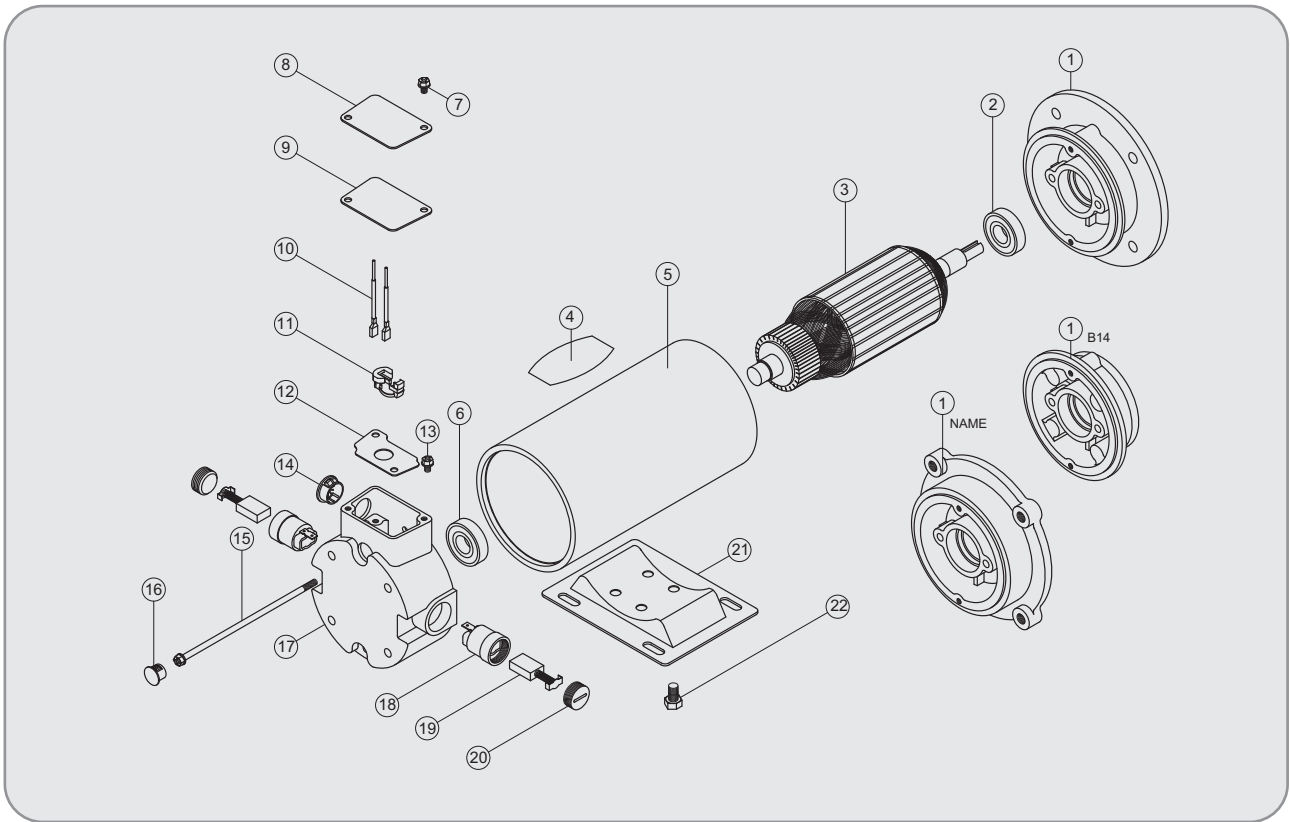


F90

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2. The seller reserves the right to make any modification without advanced notice to customers upon the design or appearance shape for all New Power products.

PARTS #300 TYPE



NO.	Accessories	Num.	Note.
1	Motor Front Cover	1	IEC-B5
1	Motor Front Cover	1	IEC-B14
1	Motor Front Cover	1	NEMA
2	Bearing	1	6202ZZ
3	Armature	1	
4	Nameplate	1	
5	Motor House	1	
6	Bearing	1	6202ZZ
7	Screw	2	M5 x 8
8	Conduit Box Lid	1	
9	Packing	1	
10	Wire	2	White x1, Blackx1

NO.	Accessories	Num.	Note.
11	Strain Relief Bushing	1	SR-6P3
12	Conduit Box Lid	1	
13	Screw	2	M5 x 8
14	Shap Bushing	1	RSB-19
15	Screw Nut	2	
16	Hole Plug	1	HP-13
17	Motor Rear Cover	1	
18	Brush Holder	2	
19	Brush	2	
20	Brush Cap	2	
21	Mount Foot	1	
22	Screw Nut	4	



IEC B5



IEC B14



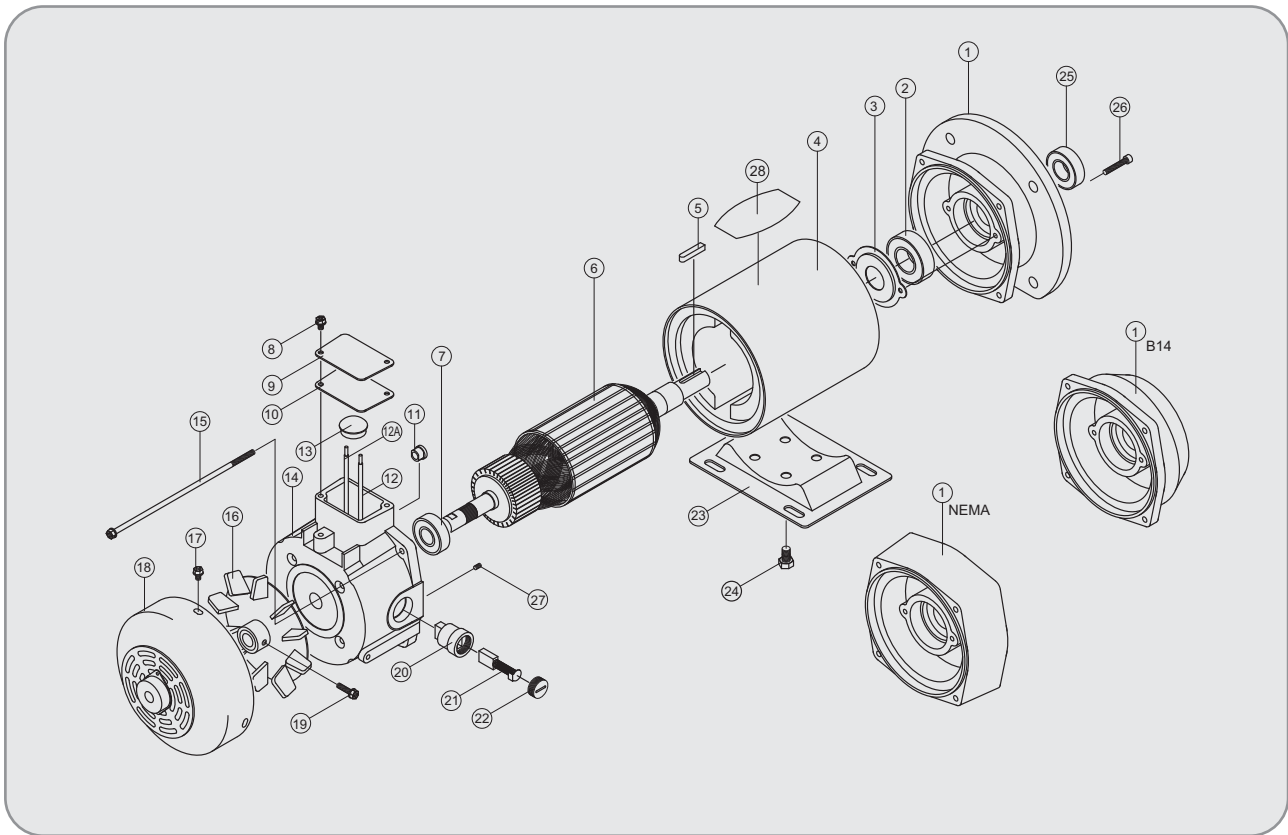
NEMA

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2. The seller reserves the right to make any modification without advanced notice to customers upon the design or appearance shape for all New Power products.

Permanent magnet DIRECT CURRENT MOTORS

PARTS #400 TYPE



NO.	Accessories	Num.	Note.
1	Motor Front Cover	1	IEC-B5
1	Motor Front Cover	1	IEC-B14
1	Motor Front Cover	1	NEMA
2	Bearing	1	
3	Bearing Cap	1	
4	Motor House	1	
5	Key	1	
6	Amature	1	
7	Bearing	1	
8	Screw	2	
9	Conduit Box Lid	1	
10	Packing	1	
11	Hole Plug	1	
12	Wire	2	White x1, Blackx1
13	Hole Plug	1	

NO.	Accessories	Num.	Note.
14	Motor Rear Cover	1	
15	Screw	4	
16	Fan	1	
17	The Screw of Fan Cover	3	
18	Fan Cover	1	
19	The Screw of Fan	1	
20	Brush Holder	2	
21	Brush	2	
22	Brush Cap	2	
23	Mount Foot	1	
24	Screw Nut	4	
25	Oil Sealing	1	
26	The Screw of Pudplate	2	
27	Screw	2	
28	Nameplate	1	



IEC B5



IEC B14



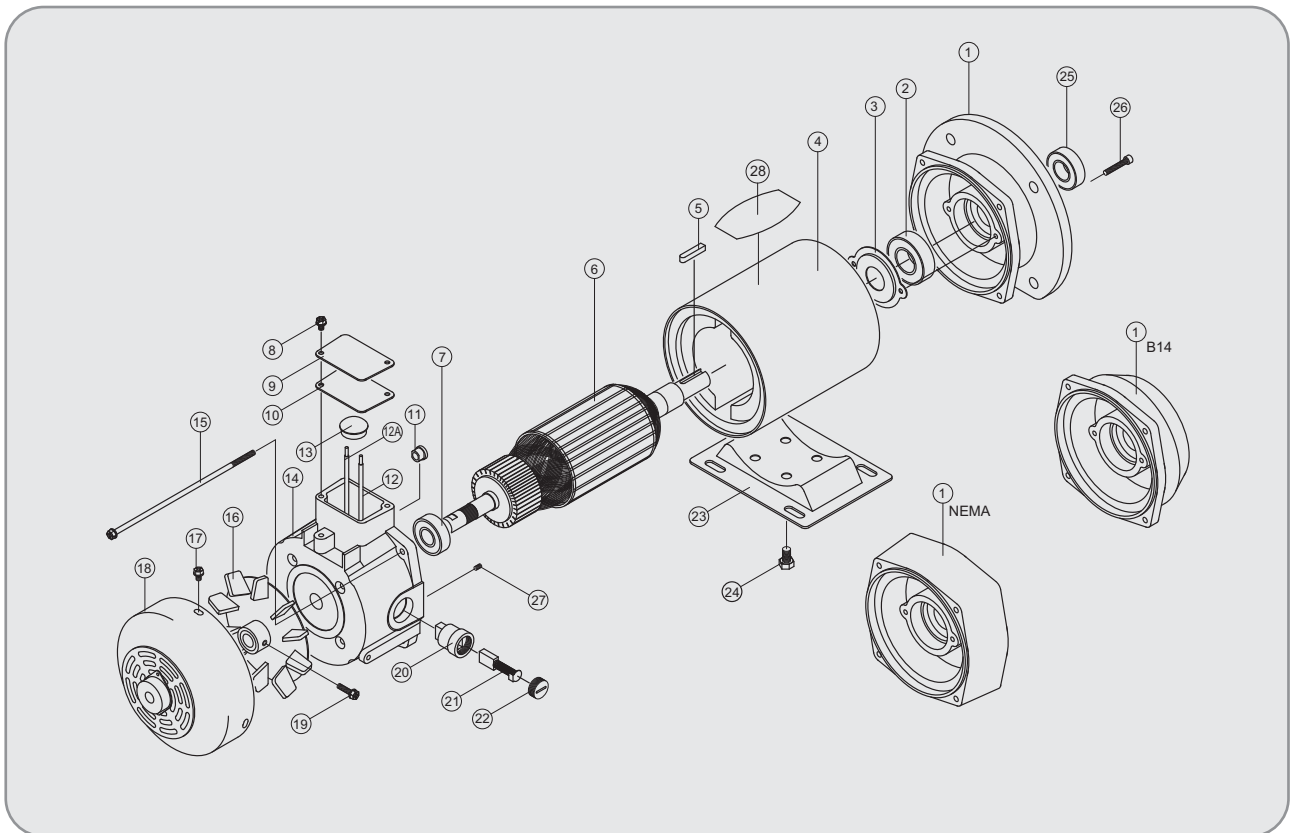
NEMA

1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

2. The seller reserves the right to make any modification without advanced notice to customers upon the design or appearance shape for all New Power products.

Permanent magnet DIRECT CURRENT MOTORS

PARTS #500 TYPE



NO.	Accessories	Num.	Note.
1	Motor Front Cover	1	IEC-B5
1	Motor Front Cover	1	IEC-B14
1	Motor Front Cover	1	NEMA
2	Bearing	1	
3	Bearing Cap	1	
4	Motor House	1	
5	Key	1	
6	Amature	1	
7	Bearing	1	
8	Screw	2	
9	Conduit Box Lid	1	
10	Packing	1	
11	Hole Plug	1	
12	Wire	2	White x1, Blackx1
13	Hole Plug	1	

NO.	Accessories	Num.	Note.
14	Motor Rear Cover	1	
15	Screw	4	
16	Fan	1	
17	The Screw of Fan Cover	3	
18	Fan Cover	1	
19	The Screw of Fan	1	
20	Brush Holder	2	
21	Brush	2	
22	Brush Cap	2	
23	Mount Foot	1	
24	Screw Nut	4	
25	Oil Sealing	1	
26	The Screw of Pudplate	2	
27	Screw	2	
28	Nameplate	1	



IEC B5



IEC B14



NEMA

1. Above figures are estimated according to the theory base, the figures may be adjusted via actual different application & factor.

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COMMUTATOR

After several hours of operation, the commutator surface under the brush should take on a darker bronze color. This is due to self-generated film caused by normal commutation. This coloration should be even, without blotches or black areas. A shiny copper color or black streaks in the brush tracks are signs of improper commutation or contamination by a foreign material. Contact us for assistance in correcting these problems.

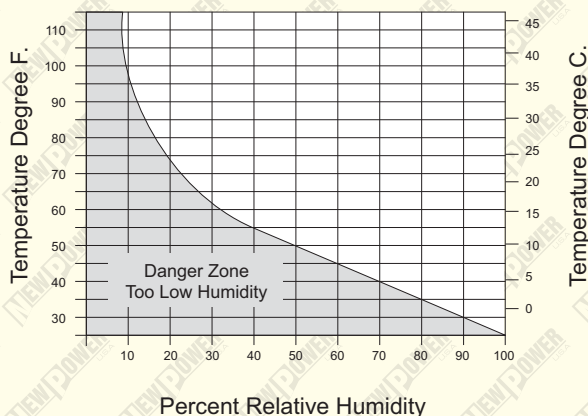
If the commutator becomes rough and burned, or becomes black, it should be cleaned of dirt and carbon particles. This can be done by wiping it with a dry, lint-free cloth. Also vacuuming or blowing out the motor with a dry air supply are suitable cleaning methods.

Do not use solvents or cleaning solutions on the commutator. To remove spots or contamination that will not wipe off, wrap a strip of coarse (60# grit) sandpaper around the commutator. Then rotate the armature back and forth by hand. **Do not use emery cloth as this contains electrically conductive materials.**

Another method of commutator resurfacing is to use a commercially available commutator dressing stone. **This should only be done by trained and experienced people.** This stone should be taped or attached to the end of a stick made of electrically insulated material. The motor should be run at about half speed and the stone applied lightly to the commutator surface. This operation must be done with no load on the motor. **Be careful of applied voltage hazards.**

HUMIDITY AND BRUSH WEAR

ZONE OF SAFE BRUSH OPERATION



This curve represents 2 grains of water per cubic foot of dry or 4.6 grams of per cube meter of dry air.

TURNING THE COMMUTATOR

After commutator turning, check its run-out with the bearings on V block. For all commutators, maximum run-out is .002". New and minimum commutator diameters are in the chart that follows.

COMMUTATOR BRUSH TRACK DIAMETERS		
FRAME	NEW MOTOR COMMUTATOR DIAMETER INCHES	MINIMUM DIAMETER AFTER REFINISHING INCHES
180	2.750	2.51
210	4.500	4.29
250	5.000	4.72
280	5.750	5.45
320	6.500	6.20
360	7.500	7.21
400	8.250	7.90
500	10.250	9.72

NOTE:

- The above diameters are approximate.
- They are for standard design and speed motors. High speed motors require
- larger minimum bar diameters.

The surface of the commutator should be smooth and round. This can be checked while the motor is running at low speed. Press lightly on one brush with an insulated stick. **Do not use a lead pencil as this contains electrically conductive graphite.** If you feel movement of the brush, it suggests a worn or uneven commutator. The armature must be removed from the motor and the commutator turned by a qualified repair shop.

RAPID COMMUTATOR WEAR

Light electrical loads and contamination are the usual causes of rapid commutator wear.

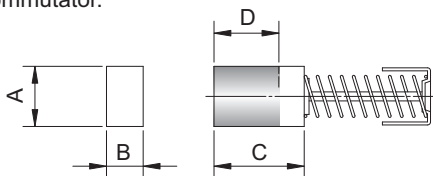
Light loading may require the removal of some brushes on motors with multiple brushes per pole. Sometimes we substitute a low current density brush grade. There are also brushes available that have a mild polishing action. These prevent certain chemicals, especially chlorine and silicone, from attacking the commutator. Brushes are available for plastic extruder applications where PVC is present. Usually, you do not have to change the design or grade of the brushed on new motors unless special operating conditions exist.

DO NOT CHANGE BRUSH GRADES OR THE NUMBER OF BRUSHES PER POLE. DOING SO MAY VOID THE WARRANTY AND MAKE THE MOTOR UNSAFE. CONTACT YOUR LOCAL AGENT DISTRICT OFFICE OR AN AUTHORIZED SERVICE CENTER FOR TECHNICAL ASSISTANCE.

COMMUTATOR UNDERCUTTING

Check the commutator mica between bars for an under-cut depth of 1/64" minimum, 3/64" maximum. The grooves of the under-cut are to be free of mica and chips.

CAUTION: Be very careful when repainting a drip proof motor. Do not get any paint on the commutator. Paint on the commutator will show up as black marks in the brush tracks. Also, excessive brush sparking or erratic operation can be caused by paint or other material on the commutator.



CARBON BRUSH SPECIFICATION

• 90V~180V

TYPE	NUMBER	A	B	C	D	BRUSH HOLDER	BRUSH CAP
#100	68D00706	7	6	12	8	—	—
#200	68D01006	10	6.1	15	10	68DA0032	68DA0032A
#300	68D01608A	16	8	17	10	68DA0033	68DA0033A
#400	68D01608	16	8	19	13	68DA0034	68DA0034A
#500	68D019095	19	9.5	25	19	68DA0035	68DA0035A

• 12V~48V

TYPE	NUMBER	A	B	C	D	BRUSH HOLDER	BRUSH CAP
#100	68D00706H	7	6	12	8	—	—
#200	68D01007H	11	7	17	12	68DA0032H	68DA0032AH
#300	68D01608AH	16	8	17	10	68DA0033	68DA0033A
#400	68D019095H	19	9.5	25	19	68DA0035	68DA0035A
#500	68D019095H	19	9.5	25	19	68DA0035	68DA0035A



GOOD CONDITION

LIGHT FILM
Uniform coloring indicates satisfactory operation of machine and brushes. Film color is largely an effect of thickness, therefore provided the film is uniform, it is perfectly acceptable.



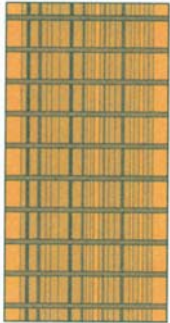
GOOD CONDITION

DARK FILM
A further example of a commutator in excellent condition. Film is much darker than illustration 1: however, uniformity is the feature to consider rather than color.



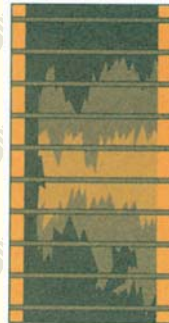
SATISFACTORY CONDITION

LIGHT AND DARK BAR PATTERN
This is not a bad condition, but in our experience, it is known that machines having this commutator pattern have operated with satisfactory results for long periods of time. Alternative bars or every 3rd, 4th, etc. This is related to the winding design of the armature. Difficulty caused from split windings crossing in the same slot.



UNSATISFACTORY CONDITION

STREAK FILM WITH NO COMMUTATOR WEAR
Frequently due to underloaded operation, machine grossly overbrushed or brush grade incorrect for particular machine application. Atmosphere and environmental conditions can contribute.



UNSATISFACTORY CONDITION

UNEVEN FILM
Patchy colors of varying densities and shape. Due to unclean operating conditions or incorrect physical condition of commutator.



UNSATISFACTORY CONDITION

FILM WITH DARK AREAS
These areas can be isolated or regular. Commutator out of round. Can be caused by vibration or mechanical deficiencies in equipment operation, bearing, copings, etc.



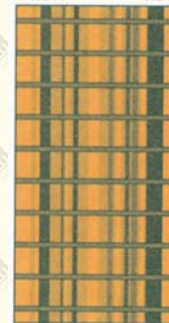
UNSATISFACTORY CONDITION

EXAMPLE OF POOR COMMUTATOR MACHINING
Bars are low on entry and leaving edges, giving riding on the middle of the bars.



UNSATISFACTORY CONDITION

EXAMPLE OF POOR COMMUTATOR MACHINING
Bars are low in the middle, giving rise to the brushes riding on entry and leaving bar edges. This and the previous illustration indicate the need for better maintenance.



UNSATISFACTORY CONDITION

STREAKY FILM WITH COMMUTATOR WEAR
This is a further development of example 4. Brush grade, machine applications and working environment all suspect. Earlier corrective action should have been taken.



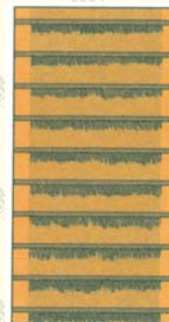
UNSATISFACTORY CONDITION

DOUBLE POLE PITCH. Darkening of commutator in sequences two pole pitches apart is due to armature fault, defective coil, riser bars or equalizer connections.



UNSATISFACTORY CONDITION

BRUSH CONTACT MARK
Storage of machines for lengthy periods, with brushes in position. Can also result from operation of machine in prolonged stall conditions.



UNSATISFACTORY CONDITION

BAR EDGE BURING CAUSE HIGH MICA
illustration shows high mica in every slot. Same effect can occur on one bar only. Similar conditions can be caused by a high or low bar.



UNSATISFACTORY CONDITION

SMALL BRIGHT SPOTS
Related to overloaded machines and low brush pressure. Due to sparking under brush which gives rise to spots being of a random distribution. If not corrected will result in scored commutator.

GUIDE TO COMMUTATOR APPEARANCE





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