

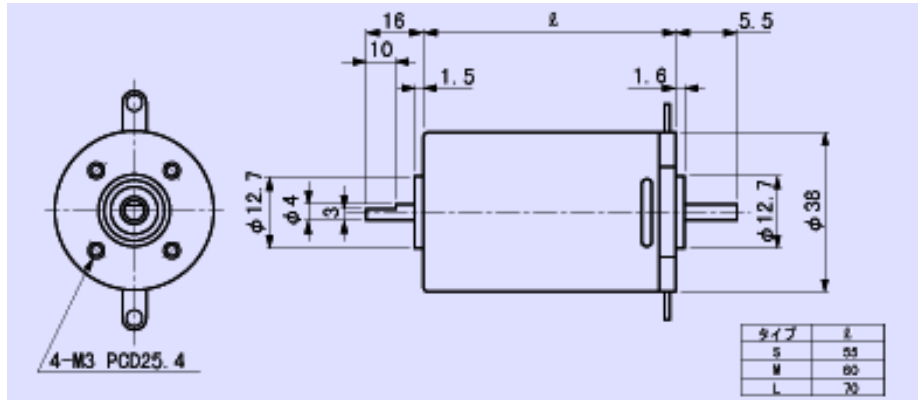
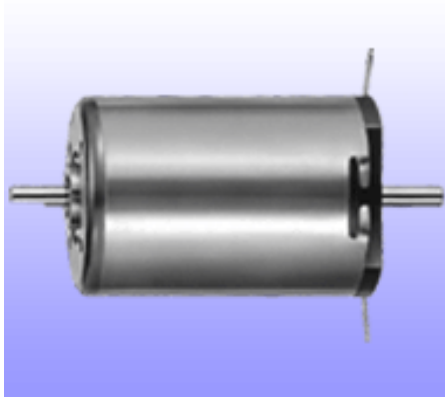
# DC Motors

## FN38 series

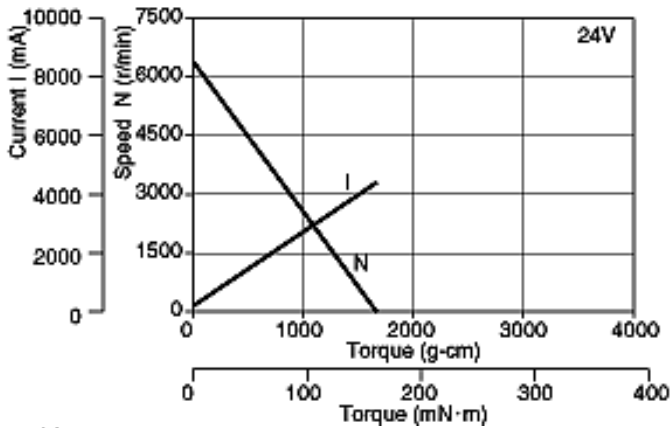
- Low cogging, high power output, low mechanical/electrical noise
- 3 motor lengths enabling versatility
- Matching gear heads & encoders available as options

### Representative applications

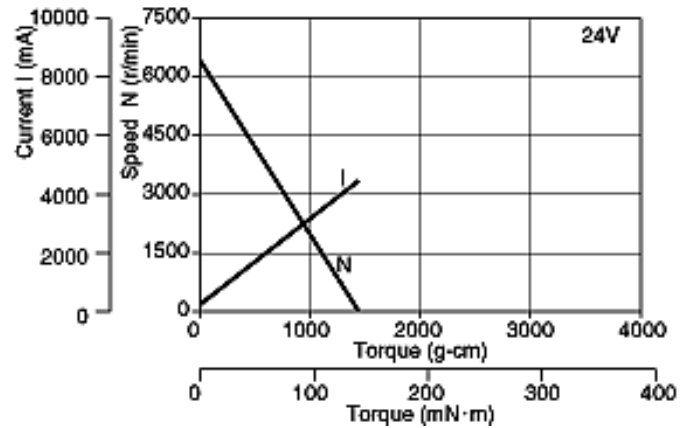
- Paper sorter/feeder for copier machines
- Printer carriage mechanism
- ATMs-printer, bill feeder, paper cutter, shutter mechanisms



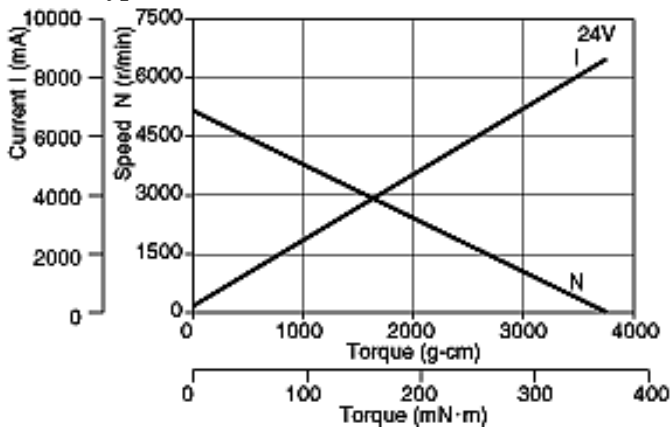
### FN38 S type



### FN38 M type



### FN38 L type



		FN38 S type		FN38 M type		FN38 L type	
Voltage	V	12	24	12	24	24	
R a t e d	Power output	W	14	14	14	13	27
	Torque	mN·m	24.5	24.5	24.5	24.5	58.8
		g-cm	250	250	250	250	600
	Speed	r/min	5,400	5,300	5,400	5,150	4,300
Current	mA	1,650	780	1,660	850	1,400	
N o l o a d	Speed	r/min	6,500	6,300	6,600	6,300	5,100
	Current	mA	200	95	205	110	85
Starting torque	mN·m	142	158	137	134	373	
	g-cm	1,450	1,610	1,400	1,370	3,800	
Torque constant	mN·m/A	17.2	36.1	16.9	33.1	46.1	
	g-cm/A	175	368	172	338	470	
Voltage constant	V/1000 r/min	1.8	3.8	1.8	3.5	4.8	
Winding resistance	&Omega;	1.5	5.5	1.7	5.9	3.0	
Winding inductance	mH	0.7	2.9	0.9	3.7	2.7	
Moment of inertia	g-cm <sup>2</sup>	32	32	39	39	117	
Mechanical constant	mS	16	14	23	21	17	
Thermal resistance	°C/W	20	20	17	17	14	

Winding change and/or options possible for meeting customized performance requirements

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