



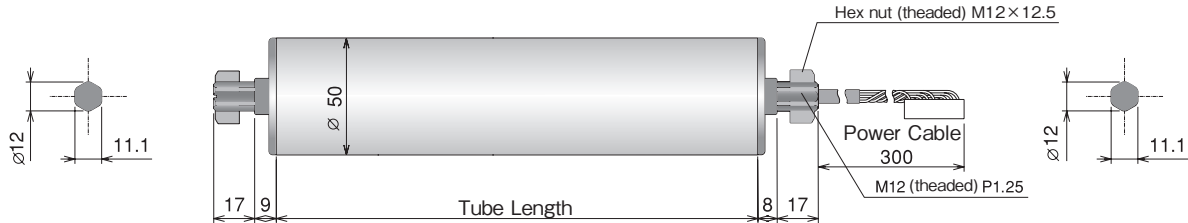
Minimum tube length



Spring loaded shaft

MDR Brushless DC Motor High torque type PM500FPRoller diameter $\varnothing 50$ **Roller diameter $\varnothing 50$
PM500FP**

- Roller diameter / $\varnothing 50$
- Thickness / t1.4
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing

**Tube Length : PM500FP**

	370mm	370mm \leq					
Tube Length (mm)	400	500	600	700	800	900	1000
Weight (kg)	2.3	2.5	2.6	2.7	2.8	3.0	3.1
Spring loaded shaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

■ Conveyor frame inside dimension and frame hole shape vary by the manufacturer.

Product Designation**PM500FP - 15 - 400 - D - 024 - BR**

Power Moller model Nominal Speed Tube Length Voltage Options

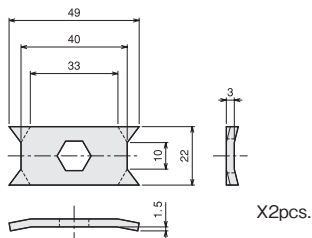
Motor type : FP

Nominal Speed : 15,55,255

Tube Length : Specify in mm.

Voltage : D-024 (24VDC)

Options : Each of the following optional specification may be selected.

Mounting Bracket :**No.P-0B1****Options : PM500FP****Rubber Laggings - NR, UR, NB, CR**

Natural rubber, Urethane, NBR, Neoprene

P.66

 **BR** **Built-In Brake - BR**^{*1} 440mm 440mm \leq

P.67

 **VP** **V-Belt Pulley** 370mm 370mm \leq

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 **P2** **Double Grooved Tube**^{*2} 370mm 370mm \leq

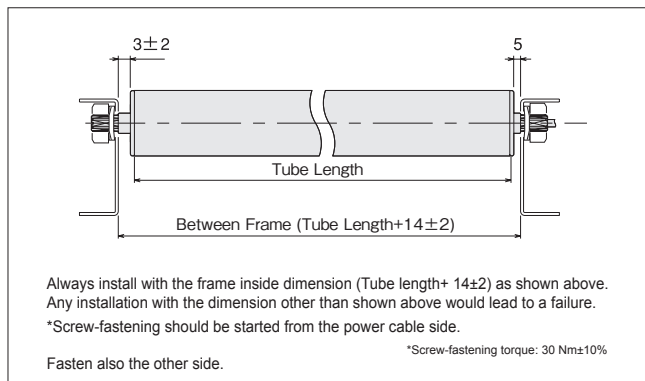
P.72

^{*1} When holding type built-in brake is required, specify along with a driver card compatible with such brake specification.


[Electric brake (no holding function)] is included in the standard specification.

^{*2} Up to 800mm can be produced.

■ For other specification, refer to P.73.



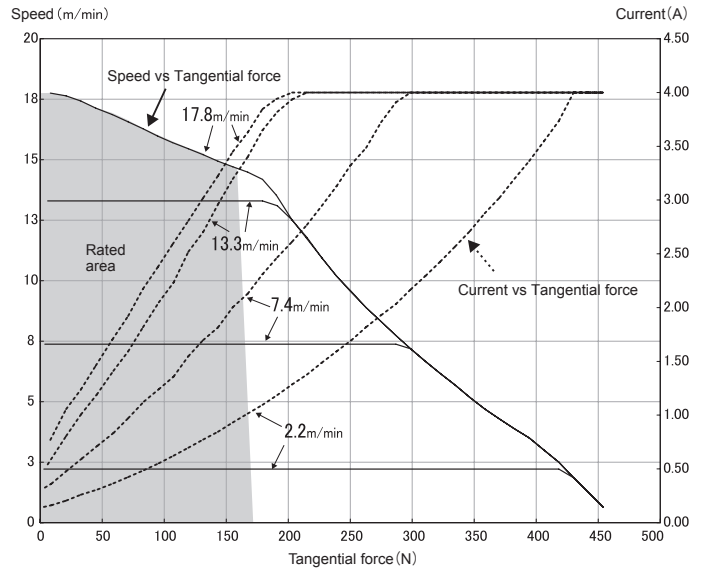
MDR Brushless DC Motor High torque type PM500FP Roller diameter $\varnothing 50$

 [MDR Selection Tool] is available on our web page.

Operating characteristics with CB-016N6 driver card

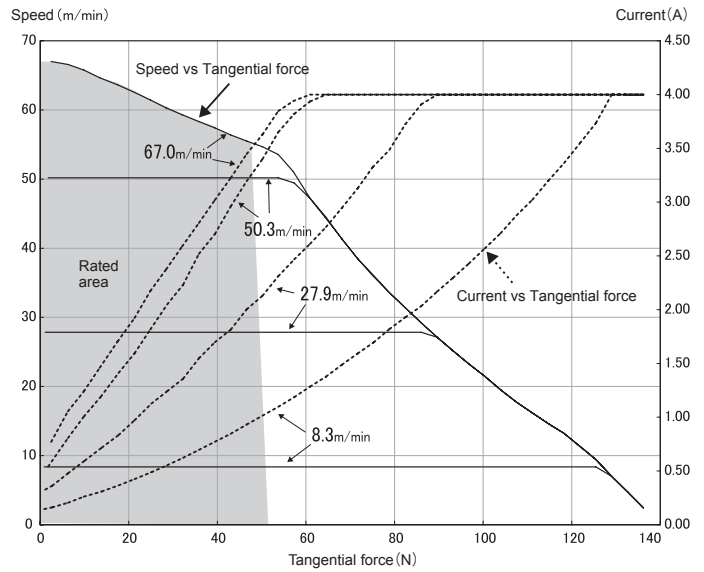
PM500FP-15

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting			SW1#5	SW5	
17.8	14.6	158		0.9		60	84	9	9.6~9.9	4.0
16.3	14.6	158		0.8		60	84	8	9.1~9.4	
15.5	14.6	158		0.8		60	84	7	8.6~8.9	
14.8	14.6	158		0.8		60	84	6	8.1~8.4	
14.1	14.1	159		0.7		57	82	5	7.6~7.9	
13.3	13.3	160		0.7		54	78	4	7.1~7.4	
11.8	11.8	161		0.6		49	70	3	6.6~6.9	
11.1	11.1	161		0.6		45	68	2	6.1~6.4	
10.4	10.4	162		0.6		42	64	1	5.6~5.9	
9.6	9.6	163		0.5		39	61	0	5.1~5.4	
8.9	8.9	163		0.5		36	57	9	4.6~4.9	
8.1	8.1	164		0.5		33	53	8	4.1~4.4	
7.4	7.4	165		0.5		30	50	7	3.6~3.9	
6.6	6.6	165		0.4		27	47	6	3.1~3.4	
5.9	5.9	166		0.4		24	43	5	2.6~2.9	
5.2	5.2	167		0.4		21	40	4	2.1~2.4	
4.4	4.4	167		0.3		18	37	3	1.6~1.9	
3.7	3.7	168		0.3		15	32	2	1.1~1.4	
3.0	3.0	169		0.3		12	28	1	0.6~0.9	
2.2	2.2	169		0.2		9	25	0	0.1~0.4	



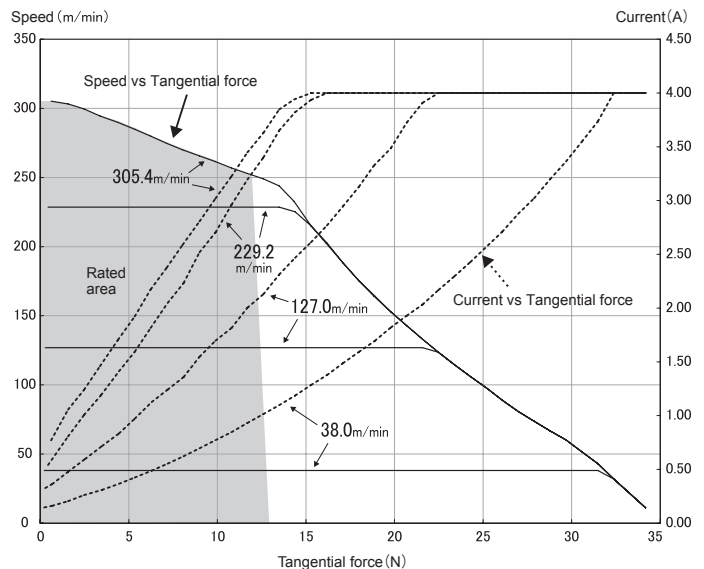
PM500FP-55

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting			SW1#5	SW5	
67.0	55.0	48		0.9		60	84	9	9.6~9.9	4.0
61.4	55.0	48		0.8		60	84	8	9.1~9.4	
58.6	55.0	48		0.8		60	84	7	8.6~8.9	
55.9	55.0	48		0.8		60	84	6	8.1~8.4	
53.1	53.1	48		0.7		57	82	5	7.6~7.9	
50.3	50.3	48		0.7		54	78	4	7.1~7.4	
44.7	44.7	48		0.6		49	70	3	6.6~6.9	
41.9	41.9	49		0.6		45	68	2	6.1~6.4	
39.1	39.1	49		0.6		42	64	1	5.6~5.9	
36.3	36.3	49	136	0.5		39	61	0	5.1~5.4	
33.5	33.5	49		0.5		36	57	9	4.6~4.9	
30.8	30.8	49		0.5		33	53	8	4.1~4.4	
27.9	27.9	50		0.5		30	50	7	3.6~3.9	
25.1	25.1	50		0.4		27	47	6	3.1~3.4	
22.3	22.3	50		0.4		24	43	5	2.6~2.9	
19.5	19.5	50		0.4		21	40	4	2.1~2.4	
16.8	16.8	50		0.3		18	37	3	1.6~1.9	
14.0	14.0	51		0.3		15	32	2	1.1~1.4	
11.2	11.2	51		0.3		12	28	1	0.6~0.9	
8.3	8.3	51		0.2		9	25	0	0.1~0.4	




PM500FP-255

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting			SW1#5	SW5	
305.4	250.7	12		0.9		60	84	9	9.6~9.9	4.0
279.8	250.7	12		0.8		60	84	8	9.1~9.4	
267.1	250.7	12		0.8		60	84	7	8.6~8.9	
254.5	250.7	12		0.8		60	84	6	8.1~8.4	
241.8	241.8	12		0.7		57	82	5	7.6~7.9	
229.2	229.2	12		0.7		54	78	4	7.1~7.4	
203.4	203.4	12		0.6		49	70	3	6.6~6.9	
190.8	190.8	12		0.6		45	68	2	6.1~6.4	
178.1	178.1	12		0.6		42	64	1	5.6~5.9	
165.4	165.4	12	34	0.5		39	61	0	5.1~5.4	
152.8	152.8	12		0.5		36	57	9	4.6~4.9	
140.1	140.1	12		0.5		33	53	8	4.1~4.4	
127.0	127.0	12		0.5		30	50	7	3.6~3.9	
114.4	114.4	12		0.4		27	47	6	3.1~3.4	
101.7	101.7	12		0.4		24	43	5	2.6~2.9	
89.0	89.0	13		0.4		21	40	4	2.1~2.4	
76.4	76.4	13		0.3		18	37	3	1.6~1.9	
63.7	63.7	13		0.3		15	32	2	1.1~1.4	
51.1	51.1	13		0.3		12	28	1	0.6~0.9	
38.0	38.0	13		0.2		9	25	0	0.1~0.4	



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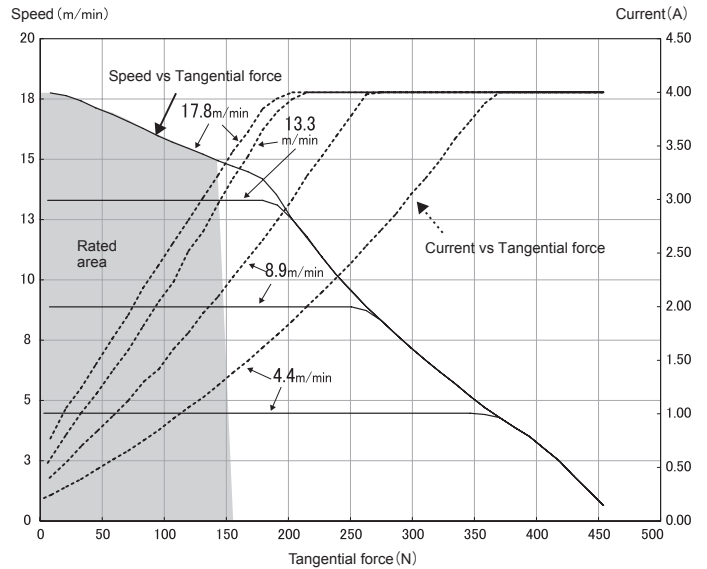
MDR Brushless DC Motor High torque type PM500FP Roller diameter $\varnothing 50$

 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510N driver card

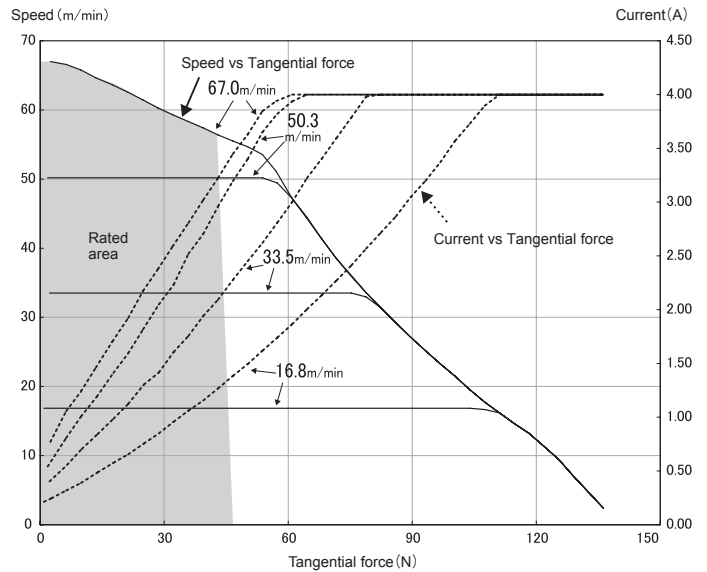
PM500FP-15

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting				
17.8	15.0	142	452	0.9	4.0	53	77	9	9.3~9.7
16.3	15.0	142		0.8		53	77	8	8.3~8.7
14.8	14.8	142		0.8		52	77	7	7.3~7.7
13.3	13.3	143		0.7		47	72	6	6.3~6.7
11.8	11.8	145		0.6		42	67	5	5.3~5.7
10.4	10.4	146		0.6		36	59	4	4.3~4.7
8.9	8.9	147		0.5		31	52	3	3.3~3.7
7.4	7.4	149		0.5		26	46	2	2.3~2.7
5.9	5.9	150		0.4		21	39	1	1.3~1.7
4.4	4.4	151		0.3		16	32	0	0.3~0.7



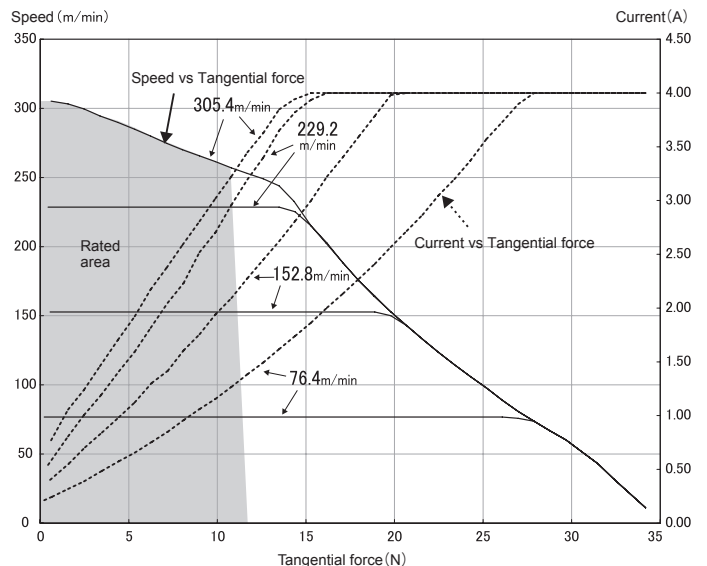
PM500FP-55

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting				
67.0	56.6	43	136	0.9	4.0	53	77	9	9.3~9.7
61.4	56.6	43		0.8		53	77	8	8.3~8.7
55.9	55.9	43		0.8		52	77	7	7.3~7.7
50.3	50.3	43		0.7		47	72	6	6.3~6.7
44.7	44.7	44		0.6		42	67	5	5.3~5.7
39.1	39.1	44		0.6		36	59	4	4.3~4.7
33.5	33.5	44		0.5		31	52	3	3.3~3.7
27.9	27.9	45		0.5		26	46	2	2.3~2.7
22.3	22.3	45		0.4		21	39	1	1.3~1.7
16.8	16.8	45		0.3		16	32	0	0.3~0.7



PM500FP-255

Speed (m/min)		Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No	External input voltage (V)
No-load	Rated	Rated	Starting	No-load	Starting				
305.4	257.8	11	34	0.9	4.0	53	77	9	9.3~9.7
279.8	257.8	11		0.8		53	77	8	8.3~8.7
254.5	254.5	11		0.8		52	77	7	7.3~7.7
229.2	229.2	11		0.7		47	72	6	6.3~6.7
203.4	203.4	11		0.6		42	67	5	5.3~5.7
178.1	178.1	11		0.6		36	59	4	4.3~4.7
152.8	152.8	11		0.5		31	52	3	3.3~3.7
127.0	127.0	11		0.5		26	46	2	2.3~2.7
101.7	101.7	11		0.4		21	39	1	1.3~1.7
76.4	76.4	11		0.3		16	32	0	0.3~0.7



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