



Minimum
tube length

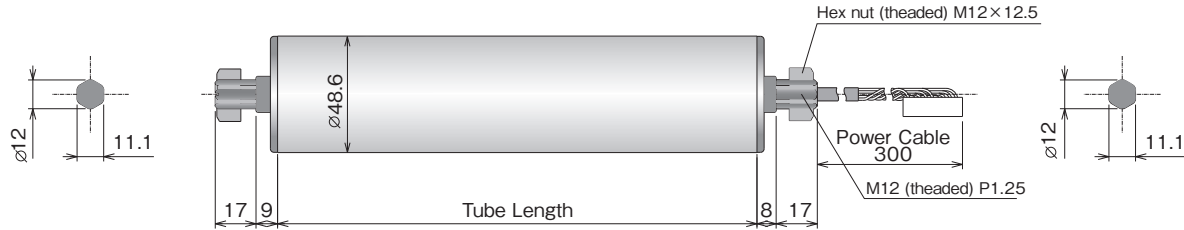


Spring
loaded shaft

MDR Brushless DC Motor High torque type PM486FP Roller diameter $\varnothing 48.6$

Roller diameter $\varnothing 48.6$ PM486FP

- Roller diameter / $\varnothing 48.6$
- Thickness / $t1.4$
- Voltage / 24V DC
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing



Tube Length : PM486FP

 370mm	 370mm≤						
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	☐	☐	☐	☐	☐	☐	☐

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

Product Designation :

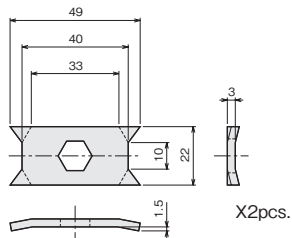
PM486FP - 15 - 400 - D - 024 - **BR**

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 : PM486FP



Rubber Laggings - NR, UR, NB, CR

Natural rubber, Urethane, NBR, Neoprene



BR Built-In Brake - BR ^{※1}

440mm 440mm $\leq$



VP V-Belt Pulley

370mm 370mm $\leq$



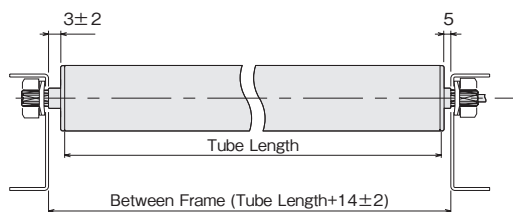
P2 Double Grooved Tube ^{※2}

370mm 370mm $\leq$

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

[Electric brake (without holding function) is equipped as a standard specification.]

^{※2} Up to 800mm can be produced.



Always install with the frame inside dimension (Tube length+ 14 $\pm$ 2) as shown above. Any installation with the dimension other than shown above would lead to a failure.

*Screw-fastening should be started from the power cable side.

Fasten also the other side.

*Screw-fastening torque: 30 Nm $\pm$ 10%

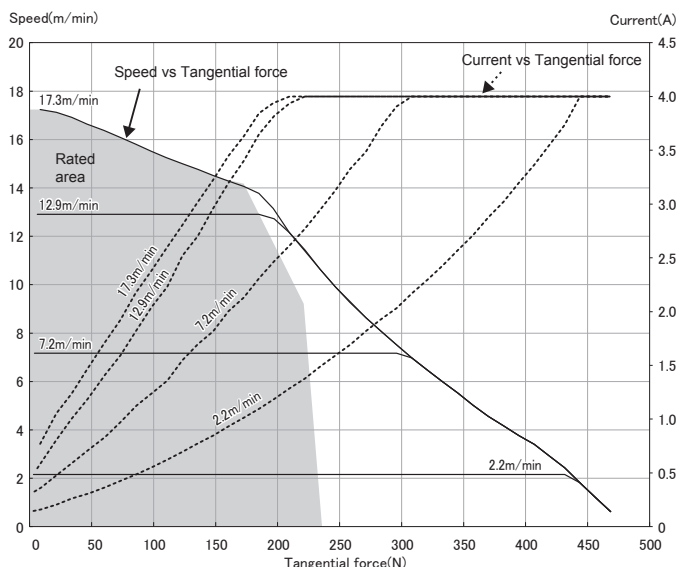
MDR Brushless DC Motor High torque type PM486FP Roller diameter $\varnothing 48.6$

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

Operating characteristics with CB-016 driver card

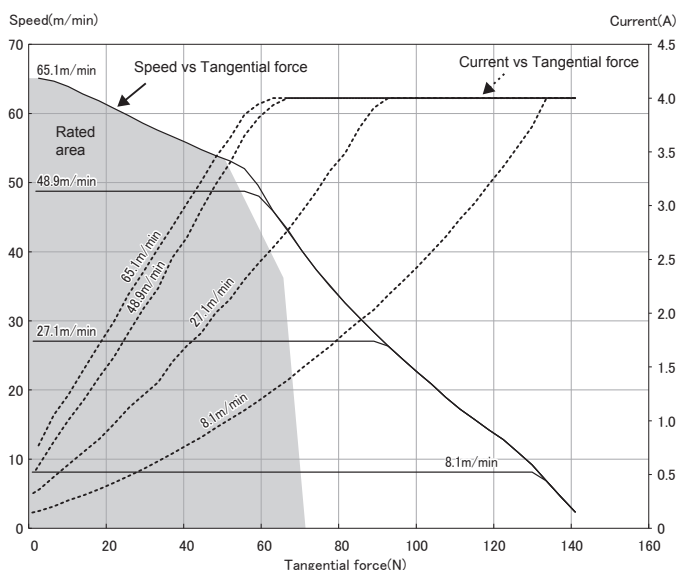
PM486FP-15

Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
			No-load	Starting			SW1#5	SW5	
17.3	173		0.9		59	88		9	9.6~9.9
15.8	173		0.8		59	87		8	9.1~9.4
15.1	173		0.8		59	87		7	8.6~8.9
14.4	173		0.8		59	87		6	8.1~8.4
13.7	176		0.7		58	85		5	7.6~7.9
12.9	186		0.7		58	85		4	7.1~7.4
11.5	199		0.6		55	84		3	6.6~6.9
10.8	206		0.6		55	83		2	6.1~6.4
10.1	213		0.6		52	81		1	5.6~5.9
9.3	219		0.5		51	81		0	5.1~5.4
8.6	223		0.5		47	77		9	4.6~4.9
7.9	223		0.5		43	72		8	4.1~4.4
7.2	223		0.5		39	67		7	3.6~3.9
6.5	226		0.4		35	62		6	3.1~3.4
5.8	226		0.4		31	57		5	2.6~2.9
5.0	226		0.4		27	52		4	2.1~2.4
4.3	226		0.3		23	48		3	1.6~1.9
3.6	229		0.3		20	42		2	1.1~1.4
2.9	229		0.3		16	38		1	0.6~0.9
2.2	229		0.2		12	33		0	0.1~0.4



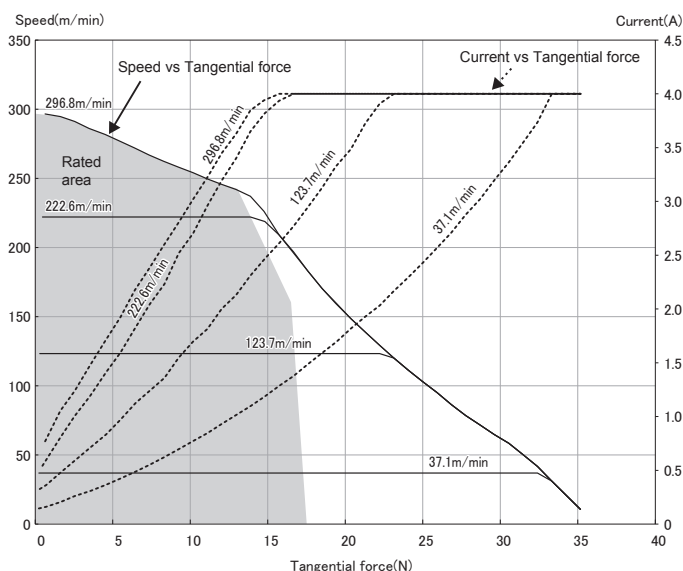
PM486FP-55

Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
			No-load	Starting			SW1#5	SW5	
65.1	52		0.9		59	88		9	9.6~9.9
59.7	52		0.8		59	87		8	9.1~9.4
57.0	52		0.8		59	87		7	8.6~8.9
54.3	52		0.8		59	87		6	8.1~8.4
51.6	53		0.7		58	85		5	7.6~7.9
48.9	56		0.7		58	85		4	7.1~7.4
43.4	60		0.6		55	84		3	6.6~6.9
40.7	62		0.6		55	83		2	6.1~6.4
38.0	64		0.6		52	81		1	5.6~5.9
35.3	66		0.5		51	81		0	5.1~5.4
32.6	67		0.5		47	77		9	4.6~4.9
29.9	67		0.5		43	72		8	4.1~4.4
27.1	67		0.5		39	67		7	3.6~3.9
24.4	68		0.4		35	62		6	3.1~3.4
21.7	68		0.4		31	57		5	2.6~2.9
19.0	68		0.4		27	52		4	2.1~2.4
16.3	68		0.3		23	48		3	1.6~1.9
13.6	69		0.3		20	42		2	1.1~1.4
10.9	69		0.3		16	38		1	0.6~0.9
8.1	69		0.2		12	33		0	0.1~0.4



PM486FP-255

Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)		Power Input (W)	Power Output (W)	Internal Rotary Switch No.		External input voltage (V)
			No-load	Starting			SW1#5	SW5	
296.8	13		0.9		59	88		9	9.6~9.9
272.1	13		0.8		59	87		8	9.1~9.4
259.7	13		0.8		59	87		7	8.6~8.9
247.4	13		0.8		59	87		6	8.1~8.4
235.0	13		0.7		58	85		5	7.6~7.9
222.6	14		0.7		58	85		4	7.1~7.4
197.9	15		0.6		55	84		3	6.6~6.9
185.5	15		0.6		55	83		2	6.1~6.4
173.2	16		0.6		52	81		1	5.6~5.9
160.8	16		0.5		51	81		0	5.1~5.4
148.4	17		0.5		47	77		9	4.6~4.9
136.0	17		0.5		43	72		8	4.1~4.4
123.7	17		0.5		39	67		7	3.6~3.9
111.3	17		0.4		35	62		6	3.1~3.4
98.9	17		0.4		31	57		5	2.6~2.9
86.6	17		0.4		27	52		4	2.1~2.4
74.2	17		0.3		23	48		3	1.6~1.9
61.8	17		0.3		20	42		2	1.1~1.4
49.5	17		0.3		16	38		1	0.6~0.9
37.1	17		0.2		12	33		0	0.1~0.4



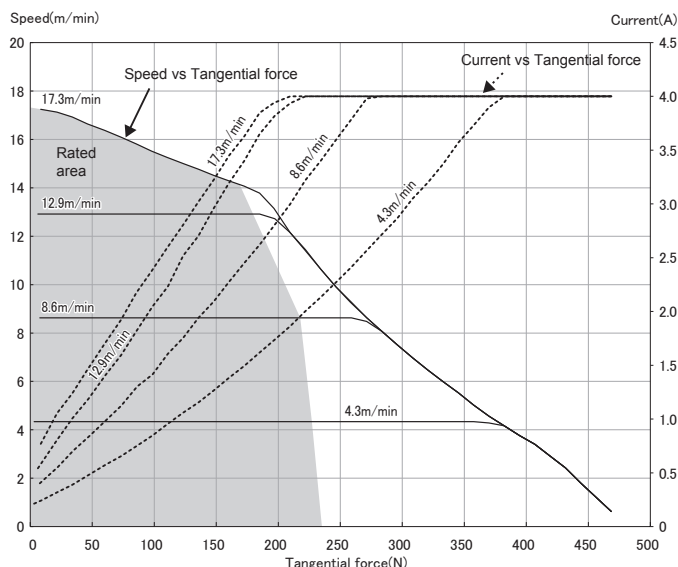
MDR Brushless DC Motor High torque type PM486FP Roller diameter $\varnothing 48.6$

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Operating characteristics with HB-510 driver card

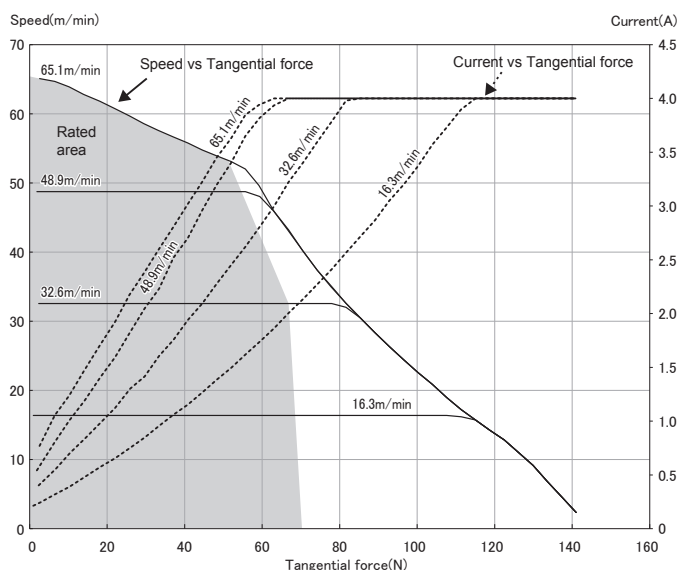
PM486FP-15

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	Starting	No-load	Starting		
17.3	173	0.9	59	88	9	9.3~9.7
15.8	173	0.8	59	87	8	8.3~8.7
14.4	173	0.8	59	87	7	7.3~7.7
12.9	186	0.7	58	85	6	6.3~6.7
11.5	199	0.6	55	84	5	5.3~5.7
10.1	213	0.6	52	81	4	4.3~4.7
8.6	223	0.5	47	77	3	3.3~3.7
7.2	223	0.5	39	67	2	2.3~2.7
5.8	226	0.4	31	57	1	1.3~1.7
4.3	226	0.3	23	48	0	0.3~0.7



PM486FP-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	Starting	No-load	Starting		
65.1	52	0.9	59	88	9	9.3~9.7
59.7	52	0.8	59	87	8	8.3~8.7
54.3	52	0.8	59	87	7	7.3~7.7
48.9	56	0.7	58	85	6	6.3~6.7
43.4	60	0.6	55	84	5	5.3~5.7
38.0	64	0.6	52	81	4	4.3~4.7
32.6	67	0.5	47	77	3	3.3~3.7
27.1	67	0.5	39	67	2	2.3~2.7
21.7	68	0.4	31	57	1	1.3~1.7
16.3	68	0.3	23	48	0	0.3~0.7



PM486FP-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	Starting	No-load	Starting		
296.8	13	0.9	59	88	9	9.3~9.7
272.1	13	0.8	59	87	8	8.3~8.7
247.4	13	0.8	59	87	7	7.3~7.7
222.6	14	0.7	58	85	6	6.3~6.7
197.9	15	0.6	55	84	5	5.3~5.7
173.2	16	0.6	52	81	4	4.3~4.7
148.4	17	0.5	47	77	3	3.3~3.7
123.7	17	0.5	39	67	2	2.3~2.7
98.9	17	0.4	31	57	1	1.3~1.7
74.2	17	0.3	23	48	0	0.3~0.7

