



Minimum
tube length



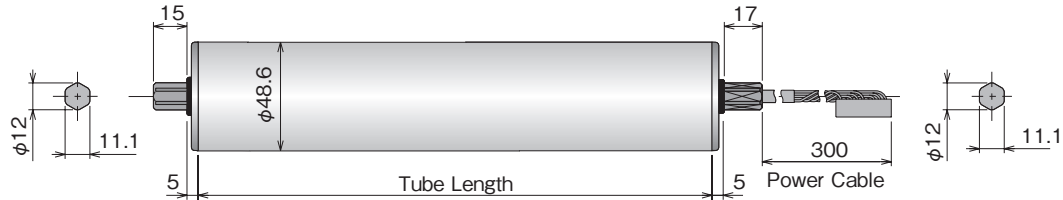
Spring
loaded shaft

MDR Brushless DC Motor standard type PM486FE

Roller diameter $\varnothing 48.6$

Roller diameter $\varnothing 48.6$ PM486FE

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



Tube Length : PM486FE

	290mm	290mm $\leq$							
Tube Length (mm)	300	400	500	600	700	800	900	1000	
Weight (kg)	2.4	2.5	2.7	2.8	3.0	3.1	3.3	3.4	
Spring loaded shaft	☐	☐	☐	☐	☐	☐	☐	☐	☐

- Conveyor frame inside dimension and frame hole shape vary by the manufacturer.
- A gap of 2~5mm is required between the frame inside dimension and Power Moller.

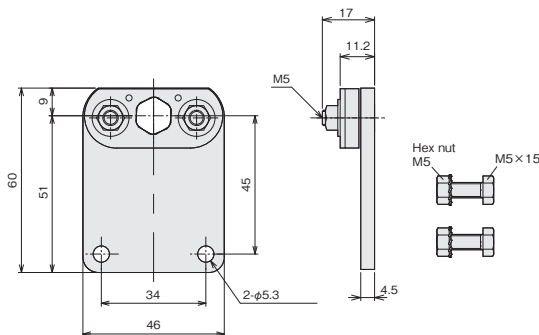
Product Designation :

PM486FE - 17 - 400 - D - 024 - **BR**

Power Moller model Nominal Speed Tube Length Voltage Options

- Motor type : FE
 Nominal Speed : 17,60,90
 Tube Length : Specify in mm.
 Voltage : D-024 (24VDC)
 Options : Each of the following optional specification may be selected.

Mounting Bracket : No.MBB-081



- *Attach to the power cable side.
- Apply 6~10Nm torque for securing the Power Moller mounting shaft, and 3.5Nm for securing the bracket.

Options : PM486FE



Rubber Laggings - NR, UR, NB, CR

Natural rubber, Urethane, NBR, Neoprene



BR Built-In Brake - BR^{*1}

360mm 360mm $\leq$



DR Drip Proof^{*2}

300mm 300mm $\leq$



WA Water Proof^{*2}

310mm 310mm $\leq$



VG Poly V-Belt Pulley

290mm 290mm $\leq$



VP V-Belt Pulley

300mm 300mm $\leq$



P2 Double Grooved Tube^{*3}

340mm 340mm $\leq$

JD

Both-end D-shaped shaft

*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.]
 Nominal speed 90m/min rollers are not applicable.

*2 Manufacturability and tube length are different depending on the specification combination, contact our sales support.

(A standard mounting bracket is No. MBD-081-D.)

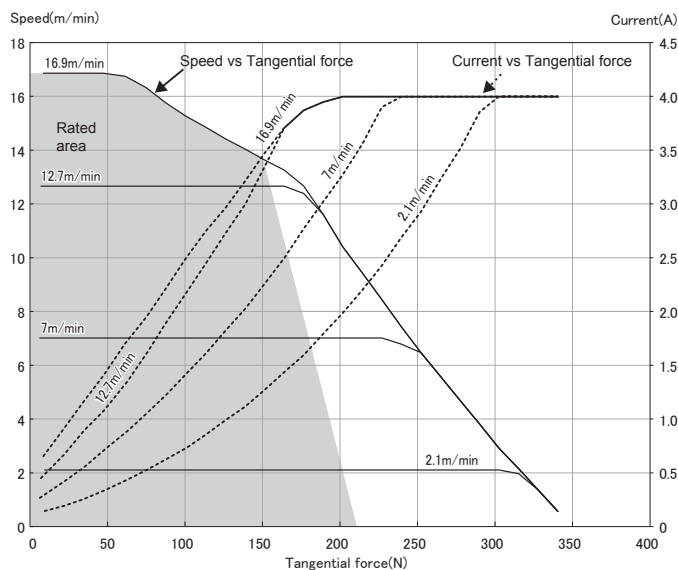
*3 Up to 800mm can be produced.

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

Operating characteristics with CB-016 driver card

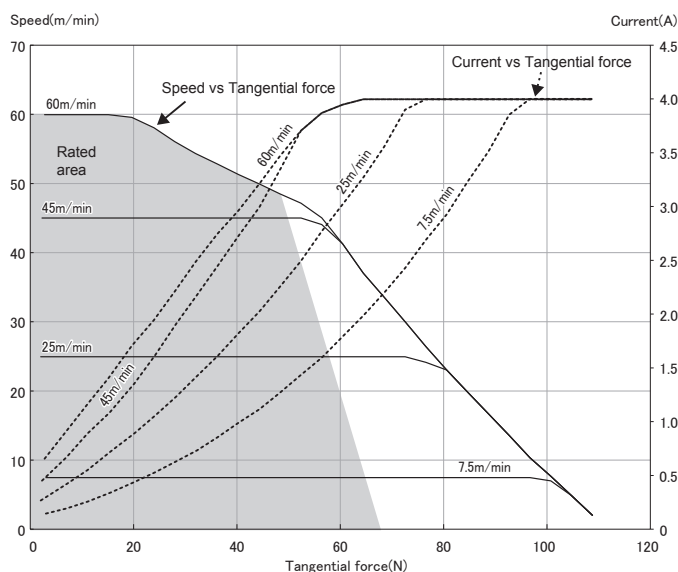
PM486FE-17

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	Starting	No-load	Starting	SW1#5	SW5
16.9	150	0.8	50	83	9	9.6~9.9
15.5	150	0.7	50	83	8	9.1~9.4
14.8	150	0.7	50	83	7	8.6~8.9
14.1	150	0.6	50	83	6	8.1~8.4
13.4	150	0.6	50	83	5	7.6~7.9
12.7	153	0.6	47	82	4	7.1~7.4
11.2	160	0.5	45	79	3	6.6~6.9
10.5	163	0.5	42	76	2	6.1~6.4
9.8	166	0.5	39	73	1	5.6~5.9
9.1	169	0.5	37	71	0	5.1~5.4
8.4	172	0.4	36	71	9	4.6~4.9
7.7	175	0.4	33	70	8	4.1~4.4
7.0	178	0.4	30	66	7	3.6~3.9
6.3	181	0.4	28	61	6	3.1~3.4
5.6	185	0.3	24	61	5	2.6~2.9
4.9	188	0.3	23	60	4	2.1~2.4
4.2	191	0.3	20	54	3	1.6~1.9
3.5	194	0.2	16	53	2	1.1~1.4
2.8	197	0.2	13	50	1	0.6~0.9
2.1	200	0.2	11	47	0	0.1~0.4



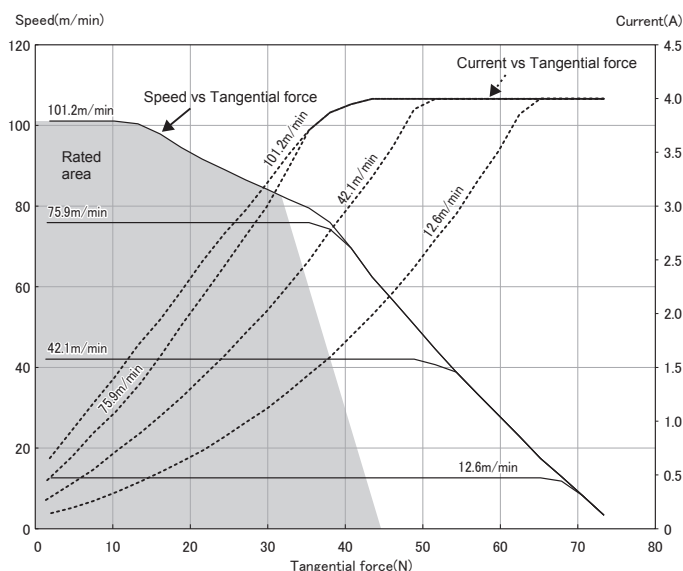
PM486FE-60

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	Starting	No-load	Starting	SW1#5	SW5
60.0	48	0.8	50	83	9	9.6~9.9
55.0	48	0.7	50	83	8	9.1~9.4
52.5	48	0.7	50	83	7	8.6~8.9
50.0	48	0.6	50	83	6	8.1~8.4
47.5	48	0.6	50	83	5	7.6~7.9
45.0	49	0.6	47	82	4	7.1~7.4
40.0	51	0.5	45	79	3	6.6~6.9
37.5	52	0.5	42	76	2	6.1~6.4
35.0	53	0.5	39	73	1	5.6~5.9
32.5	54	0.5	37	71	0	5.1~5.4
30.0	55	0.4	36	71	9	4.6~4.9
27.5	56	0.4	33	70	8	4.1~4.4
25.0	57	0.4	30	66	7	3.6~3.9
22.5	58	0.4	28	61	6	3.1~3.4
20.0	59	0.3	24	61	5	2.6~2.9
17.5	60	0.3	23	60	4	2.1~2.4
15.0	61	0.3	20	54	3	1.6~1.9
12.5	62	0.2	16	53	2	1.1~1.4
10.0	63	0.2	13	50	1	0.6~0.9
7.5	64	0.2	11	47	0	0.1~0.4



PM486FE-90

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	Starting	No-load	Starting	SW1#5	SW5
101.2	32	0.8	50	83	9	9.6~9.9
92.7	32	0.7	50	83	8	9.1~9.4
88.5	32	0.7	50	83	7	8.6~8.9
84.3	32	0.6	50	83	6	8.1~8.4
80.1	32	0.6	50	83	5	7.6~7.9
75.9	33	0.6	47	82	4	7.1~7.4
67.4	34	0.5	45	79	3	6.6~6.9
63.2	35	0.5	42	76	2	6.1~6.4
59.0	36	0.5	39	73	1	5.6~5.9
54.8	36	0.5	37	71	0	5.1~5.4
50.6	37	0.4	36	71	9	4.6~4.9
46.4	38	0.4	33	70	8	4.1~4.4
42.1	38	0.4	30	66	7	3.6~3.9
37.9	39	0.4	28	61	6	3.1~3.4
33.7	40	0.3	24	61	5	2.6~2.9
29.5	40	0.3	23	60	4	2.1~2.4
25.3	41	0.3	20	54	3	1.6~1.9
21.1	42	0.2	16	53	2	1.1~1.4
16.9	42	0.2	13	50	1	0.6~0.9
12.6	43	0.2	11	47	0	0.1~0.4

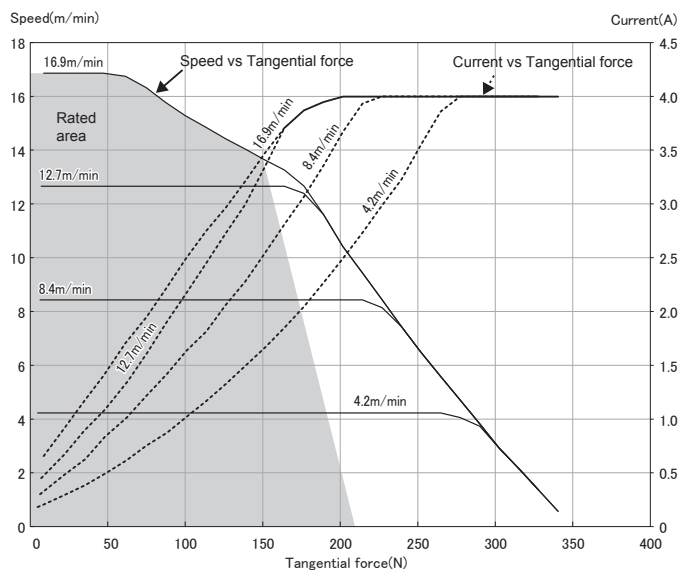


 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510 driver card

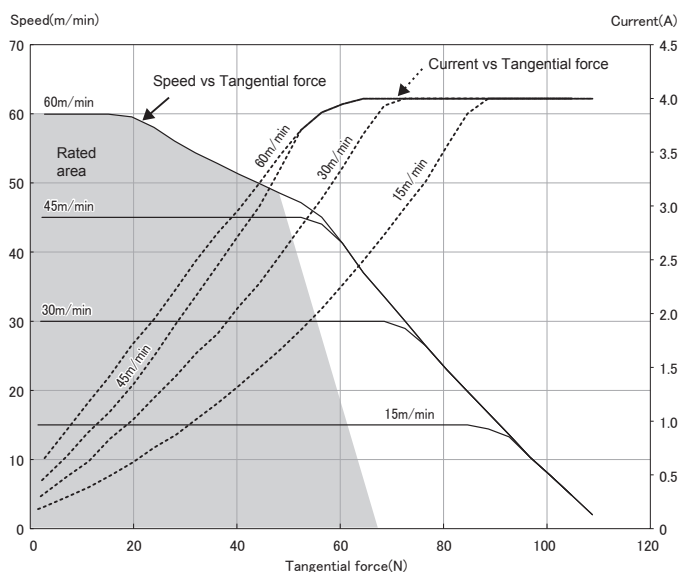
PM486FE-17

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	No-load	Starting				
16.9	150		0.8		50	83	9	9.3~9.7
15.5	150		0.7		50	83	8	8.3~8.7
14.1	150		0.6		50	83	7	7.3~7.7
12.7	153		0.6		47	82	6	6.3~6.7
11.2	160		0.5		45	79	5	5.3~5.7
9.8	166		0.5		39	73	4	4.3~4.7
8.4	172		0.4		36	71	3	3.3~3.7
7.0	178		0.4		30	66	2	2.3~2.7
5.6	185		0.3		24	61	1	1.3~1.7
4.2	191		0.3		20	54	0	0.3~0.7



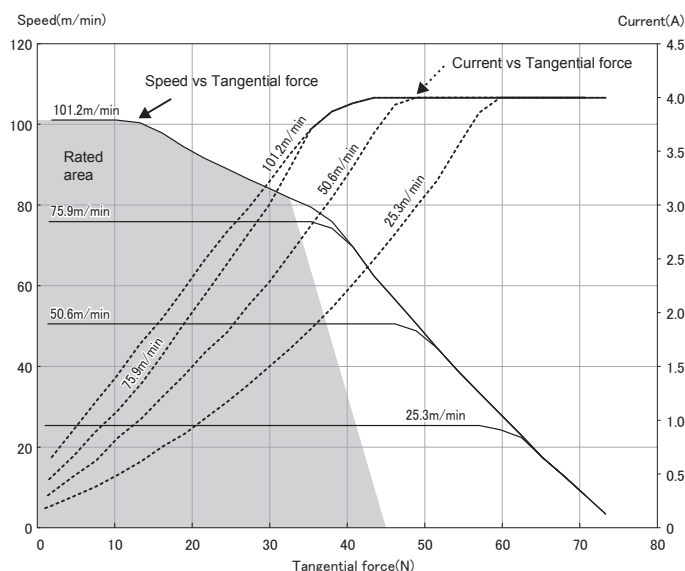
PM486FE-60

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	No-load	Starting				
60.0	48		0.8		50	83	9	9.3~9.7
55.0	48		0.7		50	83	8	8.3~8.7
50.0	48		0.6		50	83	7	7.3~7.7
45.0	49		0.6		47	82	6	6.3~6.7
40.0	51		0.5		45	79	5	5.3~5.7
35.0	53		0.5		39	73	4	4.3~4.7
30.0	55		0.4		36	71	3	3.3~3.7
25.0	57		0.4		30	66	2	2.3~2.7
20.0	59		0.3		24	61	1	1.3~1.7
15.0	61		0.3		20	54	0	0.3~0.7



PM486FE-90

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	No-load	Starting				
101.2	32		0.8		50	83	9	9.3~9.7
92.7	32		0.7		50	83	8	8.3~8.7
84.3	32		0.6		50	83	7	7.3~7.7
75.9	33		0.6		47	82	6	6.3~6.7
67.4	34		0.5		45	79	5	5.3~5.7
59.0	36		0.5		39	73	4	4.3~4.7
50.6	37		0.4		36	71	3	3.3~3.7
42.1	38		0.4		30	66	2	2.3~2.7
33.7	40		0.3		24	61	1	1.3~1.7
25.3	41		0.3		20	54	0	0.3~0.7



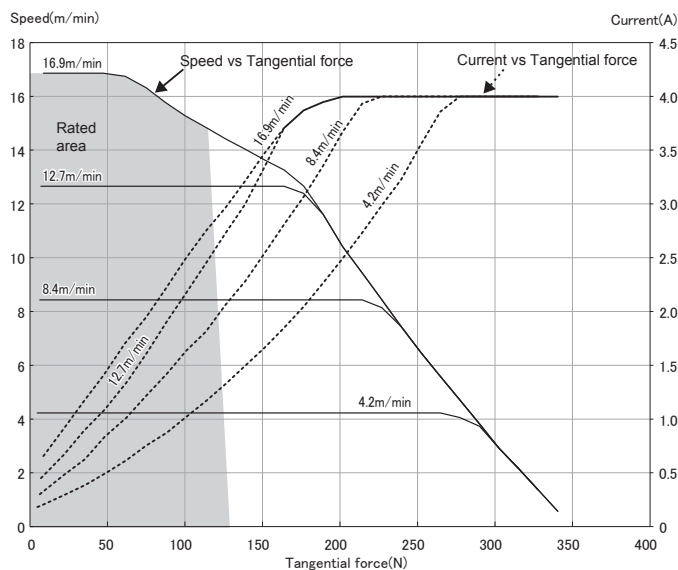
 [MDR Selection Tool] is available on our web page.

Operating characteristics with HBM-604/IB-C02 driver card

PM486FE-17

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No
	No-load	Rated	No-load	Starting			
16.9	116		0.6		41	66	9
15.5	116		0.5		41	65	8
14.1	116		0.5		39	64	7
12.7	119		0.4		35	58	6
11.2	119		0.4		31	53	5
9.8	119		0.4		27	49	4
8.4	122		0.3		23	43	3
7.0	122		0.3		20	38	2
5.6	122		0.2		17	37	1
4.2	125		0.2		13	32	0

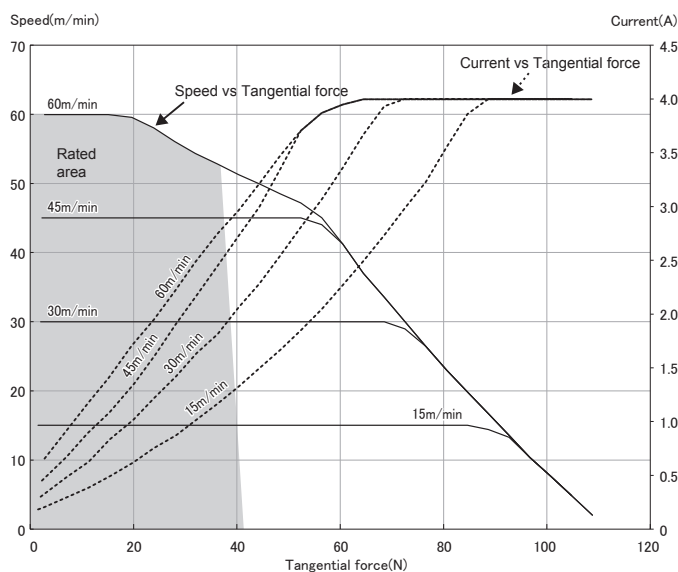
* Internal speed SW3/4 is for HBM-604.



PM486FE-60

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No
	No-load	Rated	No-load	Starting			
60.0	37		0.6		41	66	9
55.0	37		0.5		41	65	8
50.0	37		0.5		39	64	7
45.0	38		0.4		35	58	6
40.0	38		0.4		31	53	5
35.0	38		0.4		27	49	4
30.0	39		0.3		23	43	3
25.0	39		0.3		20	38	2
20.0	39		0.2		17	37	1
15.0	40		0.2		13	32	0

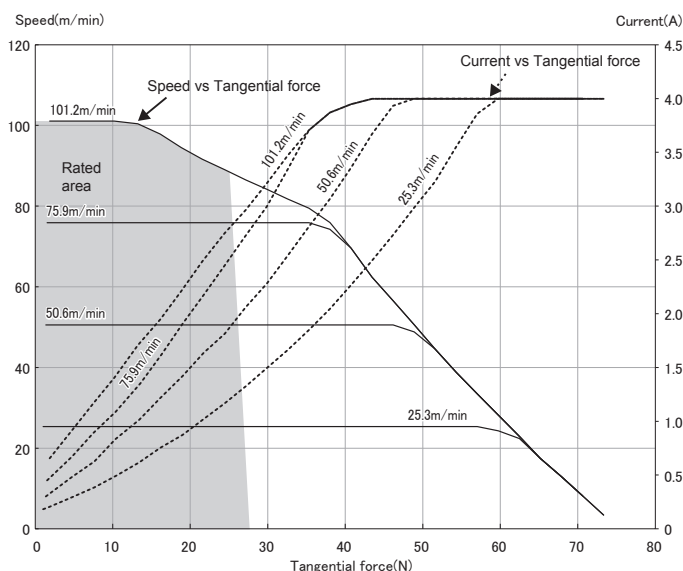
* Internal speed SW3/4 is for HBM-604.



PM486FE-90

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)	Rotary SW No
	No-load	Rated	No-load	Starting			
101.2	25		0.6		41	66	9
92.7	25		0.5		41	65	8
84.3	25		0.5		39	64	7
75.9	26		0.4		35	58	6
67.4	26		0.4		31	53	5
59.0	26		0.4		27	49	4
50.6	26		0.3		23	43	3
42.1	26		0.3		20	38	2
33.7	26		0.2		17	37	1
25.3	27		0.2		13	32	0

* Internal speed SW3/4 is for HBM-604.

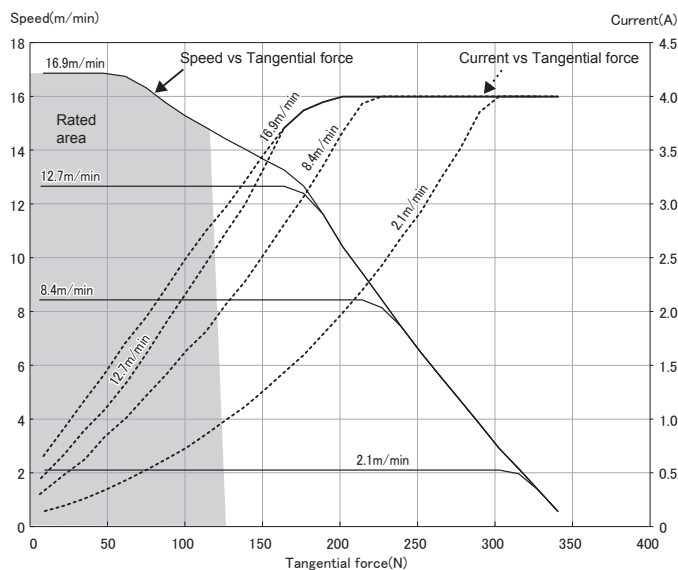


 [MDR Selection Tool] is available on our web page.

Operating characteristics with IB-E03 driver card

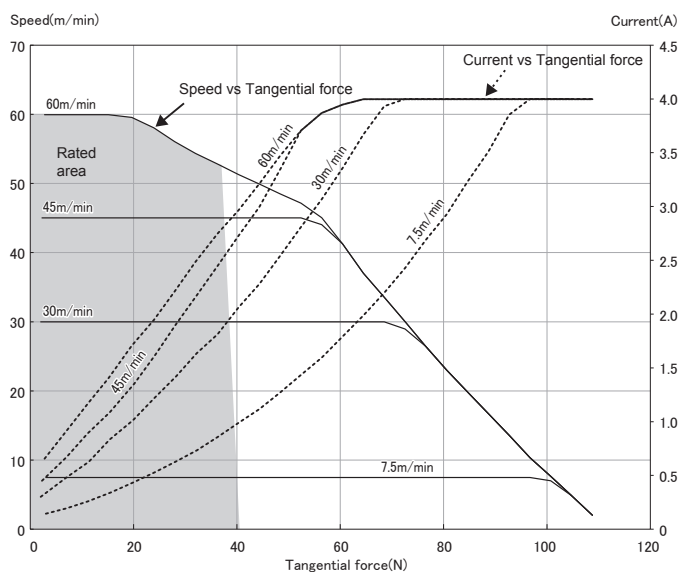
PM486FE-17

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
16.9	116		0.6		41	66
15.5	116		0.5		41	66
14.8	116		0.5		41	66
14.1	116		0.5		40	65
13.4	119		0.5		39	64
12.7	119		0.4		37	62
11.2	119		0.4		34	60
10.5	119		0.4		32	57
9.8	122		0.4		30	54
9.1	122		0.4		28	51
8.4	122		0.3		26	49
7.0	122		0.3		20	38
5.6	125		0.2		17	37
4.2	125		0.2		13	32
2.8	125		0.2		9	27
2.1	125		0.2		7	24



PM486FE-60

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
60.0	37		0.6		41	66
55.0	37		0.5		41	66
52.5	37		0.5		41	66
50.0	37		0.5		40	65
47.5	38		0.5		39	64
45.0	38		0.4		37	62
40.0	38		0.4		34	60
37.5	38		0.4		32	57
35.0	39		0.4		30	54
32.5	39		0.4		28	51
30.0	39		0.3		26	49
25.0	39		0.3		20	38
20.0	40		0.2		17	37
15.0	40		0.2		13	32
10.0	40		0.2		9	27
7.5	40		0.2		7	24



PM486FE-90

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
101.2	25		0.6		41	66
92.7	25		0.5		41	66
88.5	25		0.5		41	66
84.3	25		0.5		40	65
80.1	26		0.5		39	64
75.9	26		0.4		37	62
67.4	26		0.4		34	60
63.2	26		0.4		32	57
59.0	26		0.4		30	54
54.8	26		0.4		28	51
50.6	26		0.3		26	49
42.1	26		0.3		20	38
33.7	27		0.2		17	37
25.3	27		0.2		13	32
16.9	27		0.2		9	27
12.6	27		0.2		7	24

