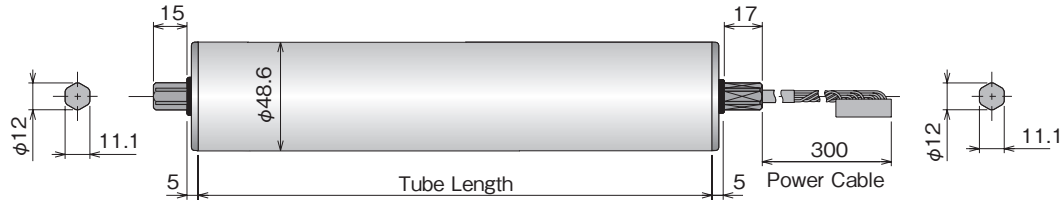


Minimum
tube lengthSpring
loaded shaft**MDR Brushless DC Motor standard type PM486FE****Roller diameter $\varnothing 48.6$** **Roller diameter $\varnothing 48.6$**
PM486FE

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

**Tube Length : PM486FE**

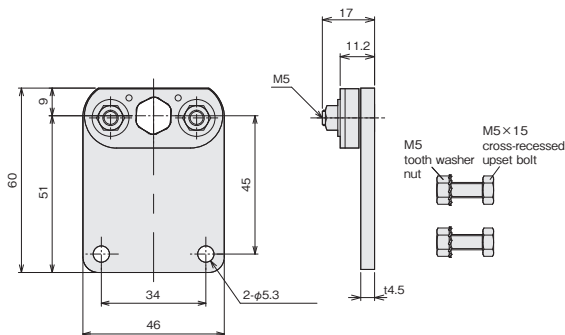
 290mm	 ≥290mm							
Tube Length (mm)	300	400	500	600	700	800	900	1000
Weight (kg)	2.4	2.5	2.7	2.8	3.0	3.1	3.3	3.4
Spring loaded shaft	☐	☐	☐	☐	☐	☐	☐	☐

- 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
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- 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 3.1Nm* for securing the bracket.
- *If case of using a Phillips screwdriver, the required torque is 3.5Nm.

Options : PM486FE**Rubber Laggings - NR, UR, NB, CR**

Natural rubber, Urethane, NBR, Neoprene

**Built-In Brake - BR ^{*1}** 360mm ≥ 360 mm**Drip Proof ^{*2}** 300mm ≥ 300 mm**Water Proof ^{*2}** 310mm ≥ 310 mm**Poly V-Belt Pulley** 290mm ≥ 290 mm**V-Belt Pulley** 300mm ≥ 300 mm**P2 Double Grooved Tube ^{*3}** 340mm ≥ 340 mm**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.)

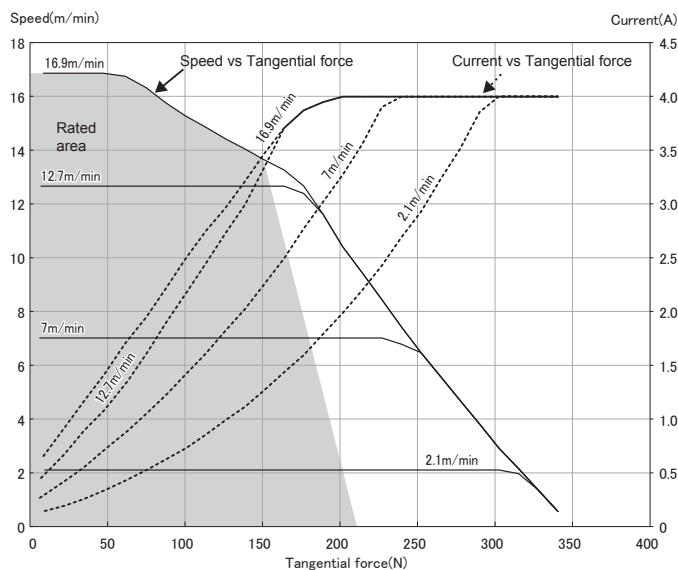
^{*3} Up to 800mm can be produced.

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

Operating characteristics with CB-016 driver card

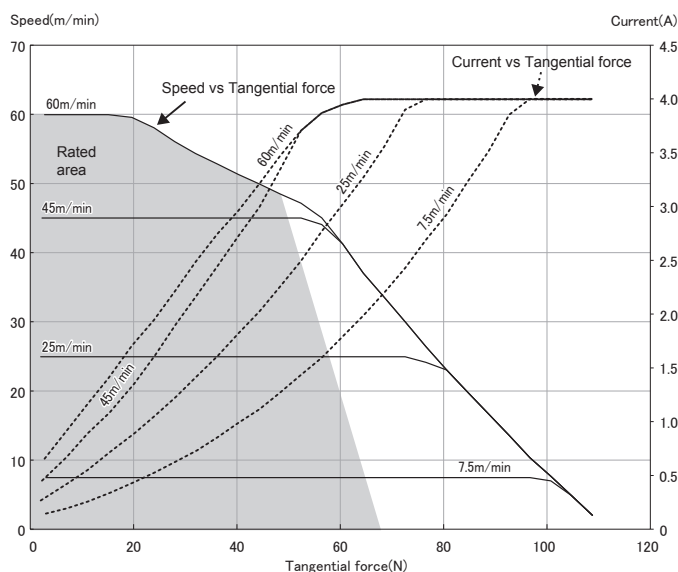
PM486FE-17

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



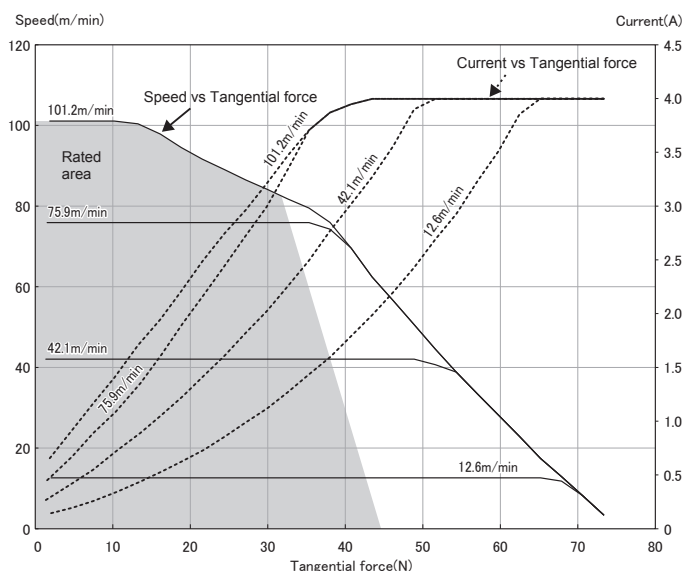
PM486FE-60

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

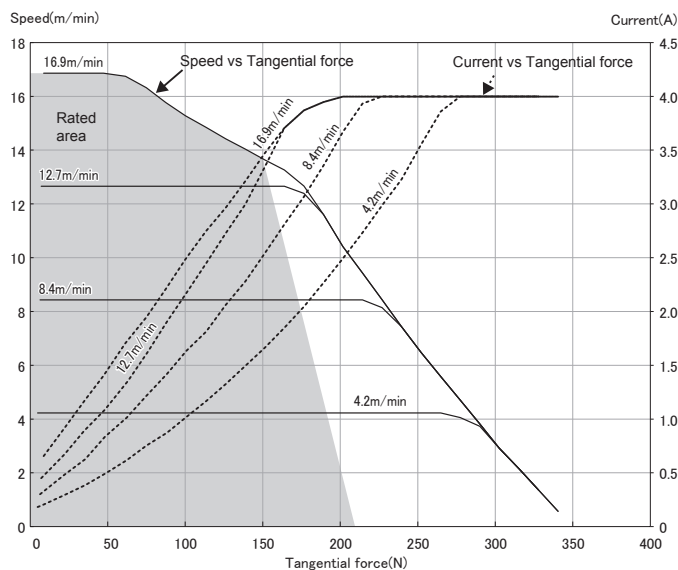


 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510 driver card

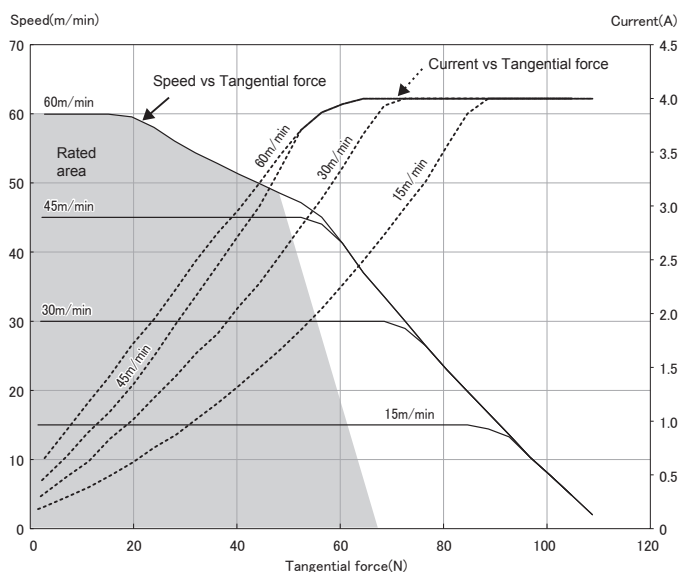
PM486FE-17

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



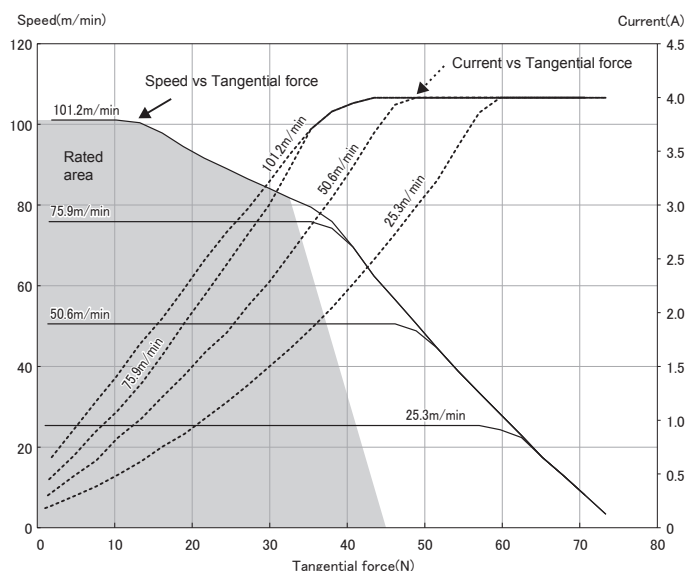
PM486FE-60

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



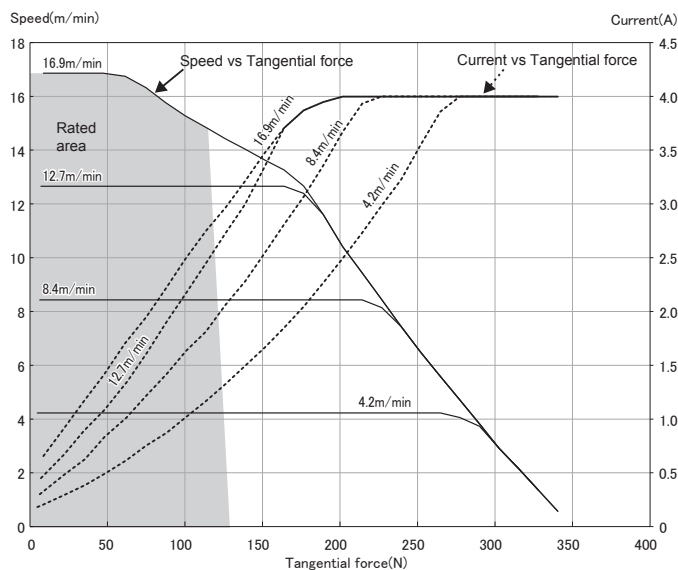
 [MDR Selection Tool] is available on our web page.

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

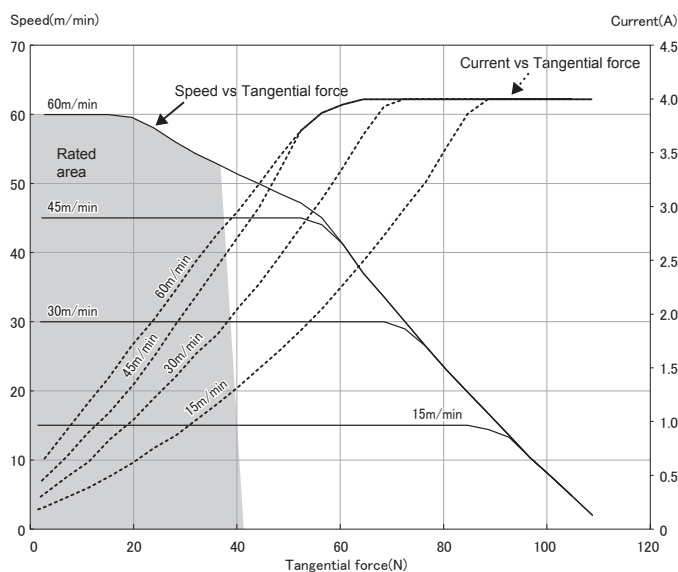
* Internal speed SW3/4 is for HBM-604.



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

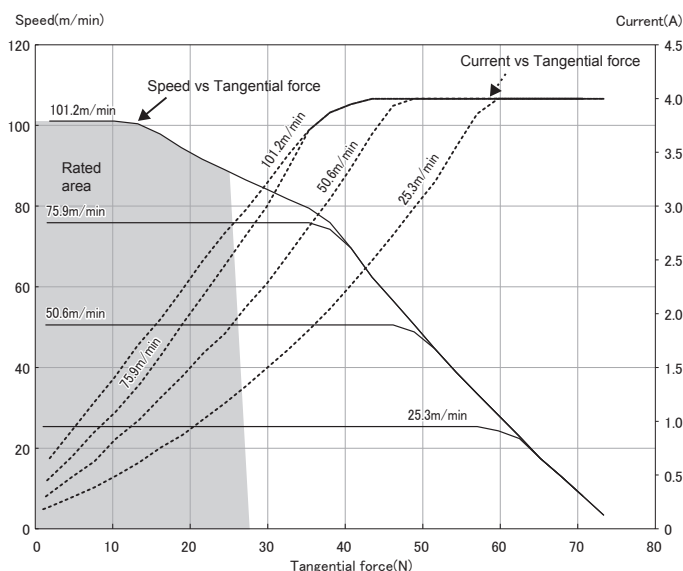
* Internal speed SW3/4 is for HBM-604.



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.

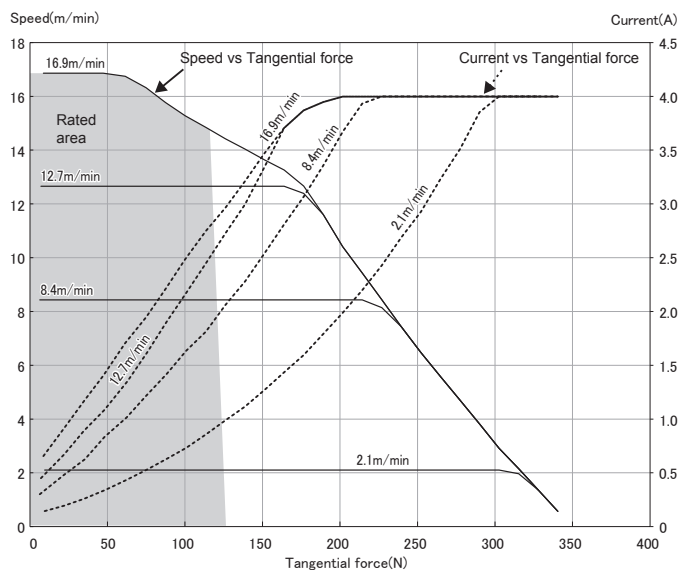


 [MDR Selection Tool] is available on our web page.

Operating characteristics with IB-E03 driver card

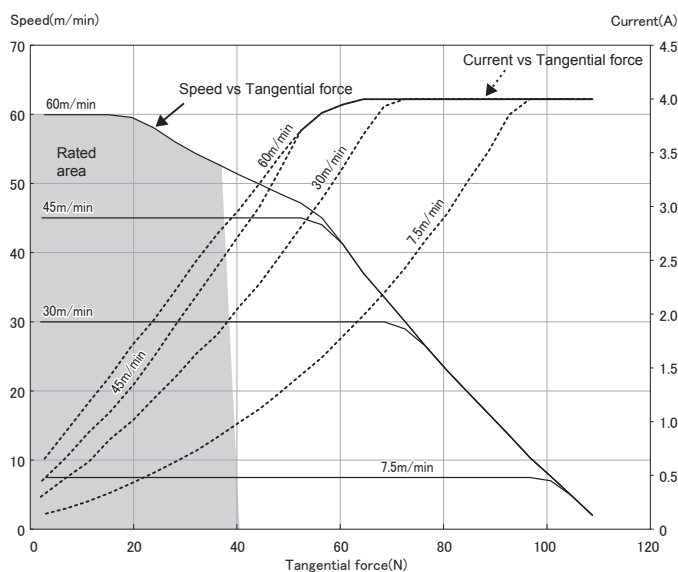
PM486FE-17

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

