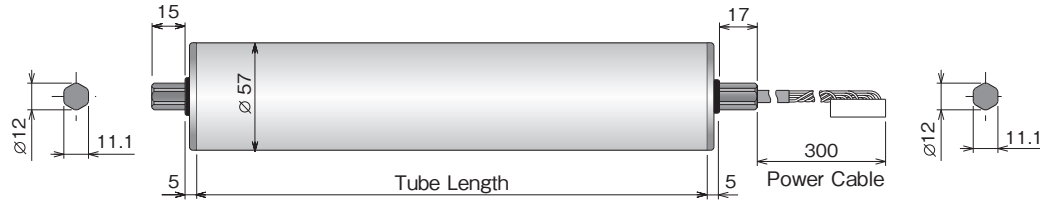


Minimum
tube lengthSpring
loaded shaft**MDR Brushless DC Motor standard type PM570FE****Roller diameter $\varnothing 57$** **Roller diameter $\varnothing 57$** **PM570FE**

- **Roller diameter** / $\varnothing 57$
- **Thickness** / $t1.5$
- **Voltage** / 24V DC
- **Tube material** / STKM12
- **Surface treatment** / Trivalent chromate processing

**Tube Length : PM570FE**

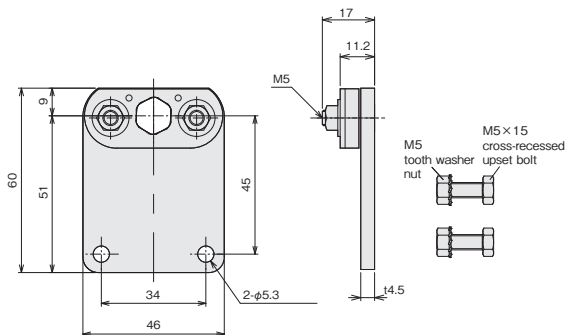
 300mm	 ≥300mm							
Tube Length (mm)	300	400	500	600	700	800	900	1000
Weight (kg)	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
Spring loaded shaft	☐	☐	☐	☐	☐	☐	☐	☐

- 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 :**PM570FE - 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 : PM570FE**Rubber Laggings - NR, UR, NB, CR**

Natural rubber, Urethane, NBR, Neoprene

**Built-In Brake - BR ^{※1}** 370mm ≥ 370 mm**Drip Proof ^{※2}** 310mm ≥ 310 mm**Water Proof ^{※2}** 310mm ≥ 310 mm**Poly V-Belt Pulley** 300mm ≥ 300 mm**V-Belt Pulley** 300mm ≥ 300 mm**P2 Double Grooved Tube ^{※3}** 360mm ≥ 360 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.)

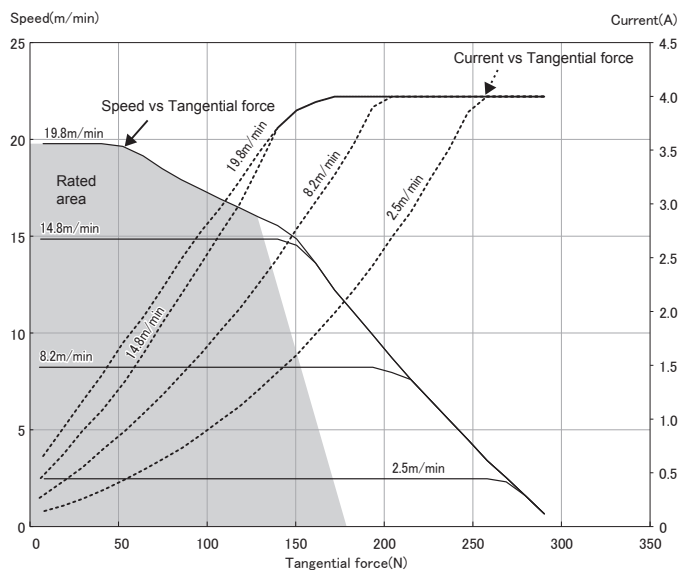
*^{※3} Up to 800mm can be produced.

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

Operating characteristics with CB-016 driver card

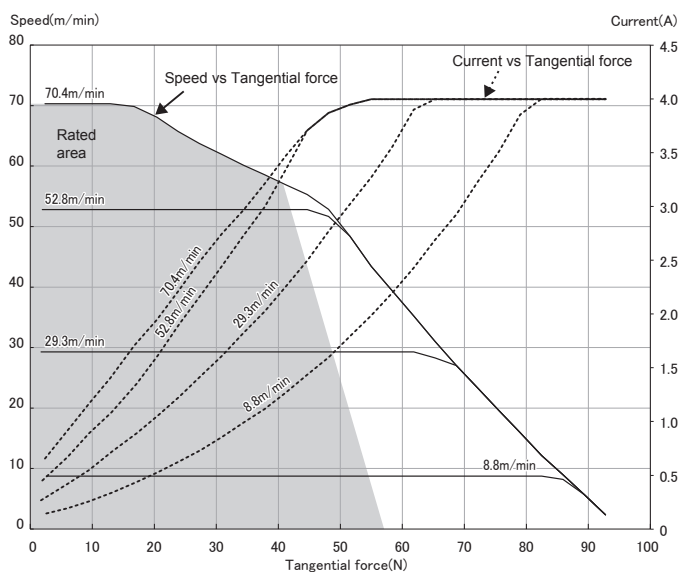
PM570FE-17

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
19.8	128	0.8	50	83	9	9.6~9.9
18.1	128	0.7	50	83	8	9.1~9.4
17.3	128	0.7	50	83	7	8.6~8.9
16.5	128	0.6	50	83	6	8.1~8.4
15.7	128	0.6	50	83	5	7.6~7.9
14.8	131	0.6	47	82	4	7.1~7.4
13.2	136	0.5	45	79	3	6.6~6.9
12.4	139	0.5	42	76	2	6.1~6.4
11.5	141	0.5	39	73	1	5.6~5.9
10.7	144	0.5	37	71	0	5.1~5.4
9.9	147	0.4	36	71	9	4.6~4.9
9.1	149	0.4	33	70	8	4.1~4.4
8.2	152	0.4	30	66	7	3.6~3.9
7.4	155	0.4	28	61	6	3.1~3.4
6.6	157	0.3	24	61	5	2.6~2.9
5.8	160	0.3	23	60	4	2.1~2.4
4.9	163	0.3	20	54	3	1.6~1.9
4.1	165	0.2	16	53	2	1.1~1.4
3.3	168	0.2	13	50	1	0.6~0.9
2.5	171	0.2	11	47	0	0.1~0.4



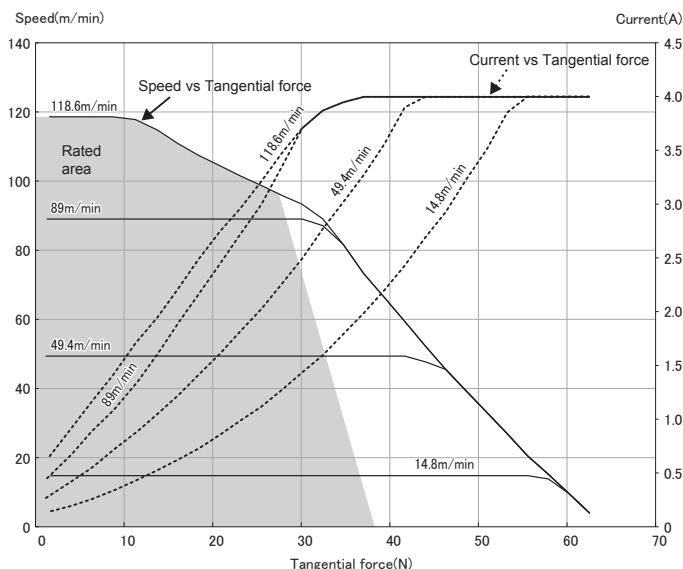
PM570FE-60

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
70.4	41	0.8	50	83	9	9.6~9.9
64.5	41	0.7	50	83	8	9.1~9.4
61.6	41	0.7	50	83	7	8.6~8.9
58.6	41	0.6	50	83	6	8.1~8.4
55.7	41	0.6	50	83	5	7.6~7.9
52.8	42	0.6	47	82	4	7.1~7.4
46.9	43	0.5	45	79	3	6.6~6.9
44.0	44	0.5	42	76	2	6.1~6.4
41.1	45	0.5	39	73	1	5.6~5.9
38.1	46	0.5	37	71	0	5.1~5.4
35.2	47	0.4	36	71	9	4.6~4.9
32.2	48	0.4	33	70	8	4.1~4.4
29.3	49	0.4	30	66	7	3.6~3.9
26.4	49	0.4	28	61	6	3.1~3.4
23.5	50	0.3	24	61	5	2.6~2.9
20.5	51	0.3	23	60	4	2.1~2.4
17.6	52	0.3	20	54	3	1.6~1.9
14.7	53	0.2	16	53	2	1.1~1.4
11.7	54	0.2	13	50	1	0.6~0.9
8.8	55	0.2	11	47	0	0.1~0.4



PM570FE-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
118.6	28	0.8	50	83	9	9.6~9.9
108.8	28	0.7	50	83	8	9.1~9.4
103.8	28	0.7	50	83	7	8.6~8.9
98.9	28	0.6	50	83	6	8.1~8.4
93.9	28	0.6	50	83	5	7.6~7.9
89.0	28	0.6	47	82	4	7.1~7.4
79.1	29	0.5	45	79	3	6.6~6.9
74.2	30	0.5	42	76	2	6.1~6.4
69.2	30	0.5	39	73	1	5.6~5.9
64.3	31	0.5	37	71	0	5.1~5.4
59.3	32	0.4	36	71	9	4.6~4.9
54.4	32	0.4	33	70	8	4.1~4.4
49.4	33	0.4	30	66	7	3.6~3.9
44.5	33	0.4	28	61	6	3.1~3.4
39.5	34	0.3	24	61	5	2.6~2.9
34.6	34	0.3	23	60	4	2.1~2.4
29.7	35	0.3	20	54	3	1.6~1.9
24.7	36	0.2	16	53	2	1.1~1.4
19.8	36	0.2	13	50	1	0.6~0.9
14.8	37	0.2	11	47	0	0.1~0.4

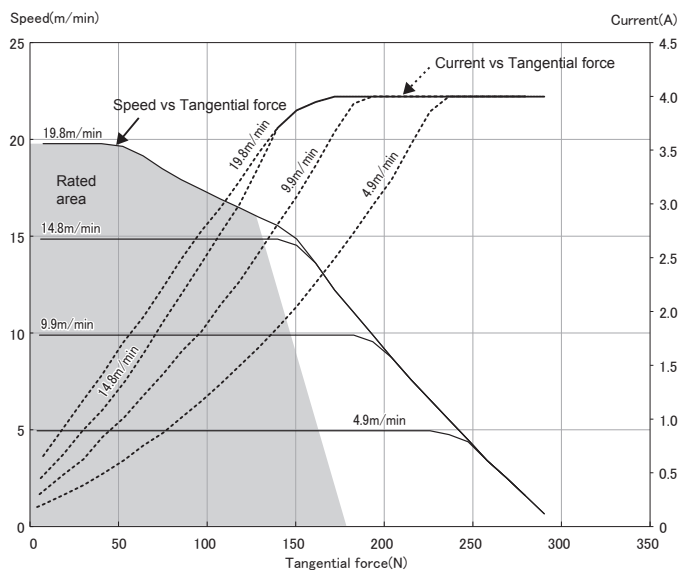


 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510 driver card

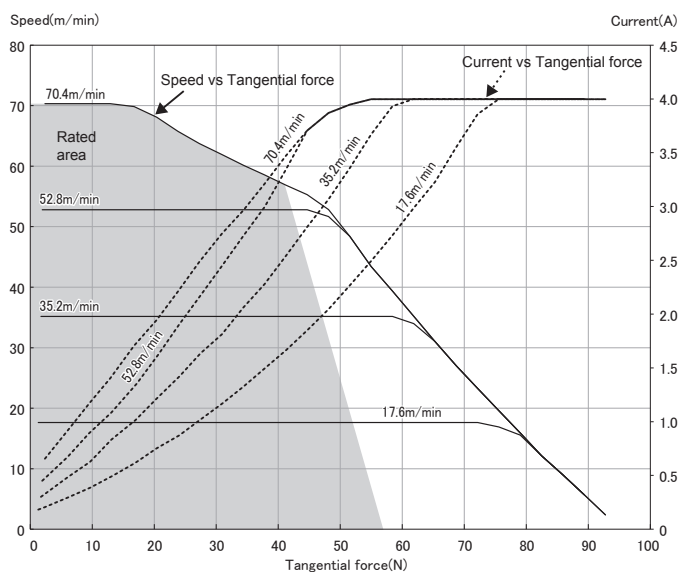
PM570FE-17

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	Starting	No-load	Starting		
19.8	128	0.8	50	83	9	9.3~9.7
18.1	128	0.7	50	83	8	8.3~8.7
16.5	128	0.6	50	83	7	7.3~7.7
14.8	131	0.6	47	82	6	6.3~6.7
13.2	136	0.5	45	79	5	5.3~5.7
11.5	141	0.5	39	73	4	4.3~4.7
9.9	147	0.4	36	71	3	3.3~3.7
8.2	152	0.4	30	66	2	2.3~2.7
6.6	157	0.3	24	61	1	1.3~1.7
4.9	163	0.3	20	54	0	0.3~0.7



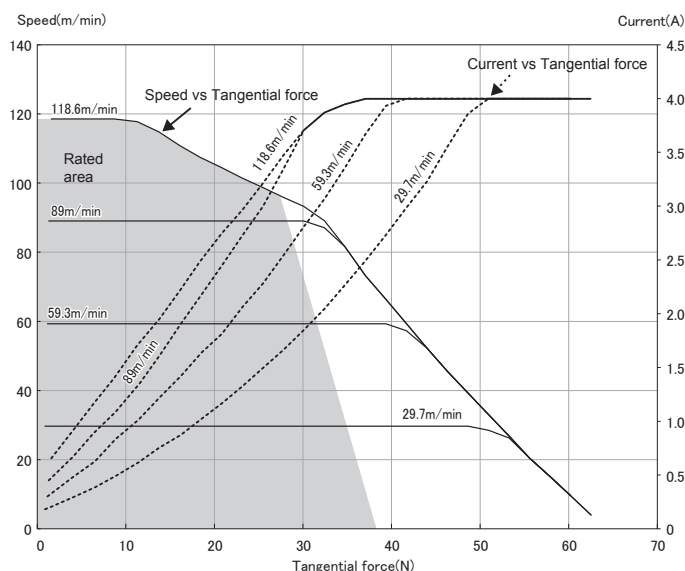
PM570FE-60

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	Starting	No-load	Starting		
70.4	41	0.8	50	83	9	9.3~9.7
64.5	41	0.7	50	83	8	8.3~8.7
58.6	41	0.6	50	83	7	7.3~7.7
52.8	42	0.6	47	82	6	6.3~6.7
46.9	43	0.5	45	79	5	5.3~5.7
41.1	45	0.5	39	73	4	4.3~4.7
35.2	47	0.4	36	71	3	3.3~3.7
29.3	49	0.4	30	66	2	2.3~2.7
23.5	50	0.3	24	61	1	1.3~1.7
17.6	52	0.3	20	54	0	0.3~0.7



PM570FE-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	Starting	No-load	Starting		
118.6	28	0.8	50	83	9	9.3~9.7
108.8	28	0.7	50	83	8	8.3~8.7
98.9	28	0.6	50	83	7	7.3~7.7
89.0	28	0.6	47	82	6	6.3~6.7
79.1	29	0.5	45	79	5	5.3~5.7
69.2	30	0.5	39	73	4	4.3~4.7
59.3	32	0.4	36	71	3	3.3~3.7
49.4	33	0.4	30	66	2	2.3~2.7
39.5	34	0.3	24	61	1	1.3~1.7
29.7	35	0.3	20	54	0	0.3~0.7



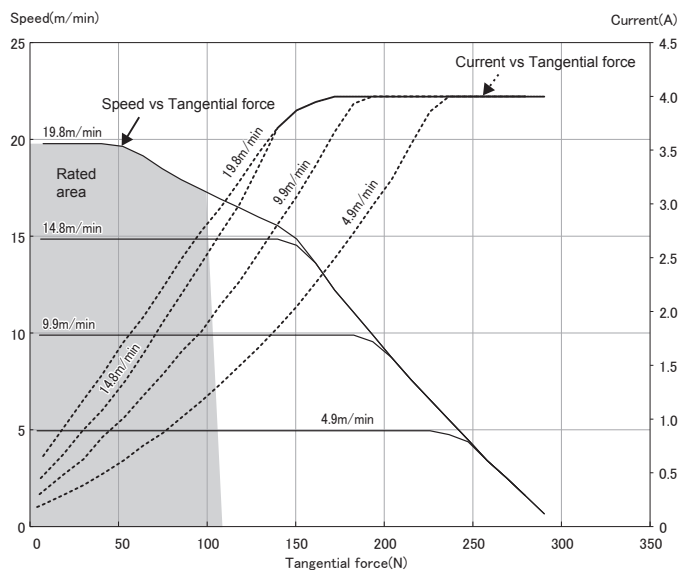
 [MDR Selection Tool] is available on our web page.

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

PM570FE-17

Speed (m/min)	Tangential Force (N)	Input Current (A)	Power Input (W)	Power Output (W)	Rotary SW No
No-load	Rated	Starting	No-load	Starting	
19.8	99	0.6	41	66	9
18.1	99	0.5	41	65	8
16.5	99	0.5	39	64	7
14.8	101	0.4	35	58	6
13.2	101	0.4	31	53	5
11.5	101	0.4	27	49	4
9.9	104	0.3	23	43	3
8.2	104	0.3	20	38	2
6.6	104	0.2	17	37	1
4.9	107	0.2	13	32	0

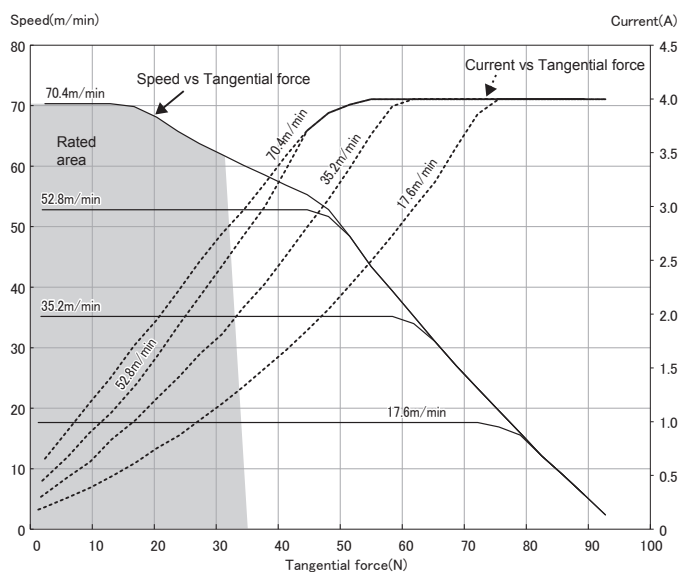
* Internal speed SW3/4 is for HBM-604.



PM570FE-60

Speed (m/min)	Tangential Force (N)	Input Current (A)	Power Input (W)	Power Output (W)	Rotary SW No
No-load	Rated	Starting	No-load	Starting	
70.4	32	0.6	41	66	9
64.5	32	0.5	41	65	8
58.6	32	0.5	39	64	7
52.8	32	0.4	35	58	6
46.9	32	0.4	31	53	5
41.1	32	0.4	27	49	4
35.2	33	0.3	23	43	3
29.3	33	0.3	20	38	2
23.5	33	0.2	17	37	1
17.6	34	0.2	13	32	0

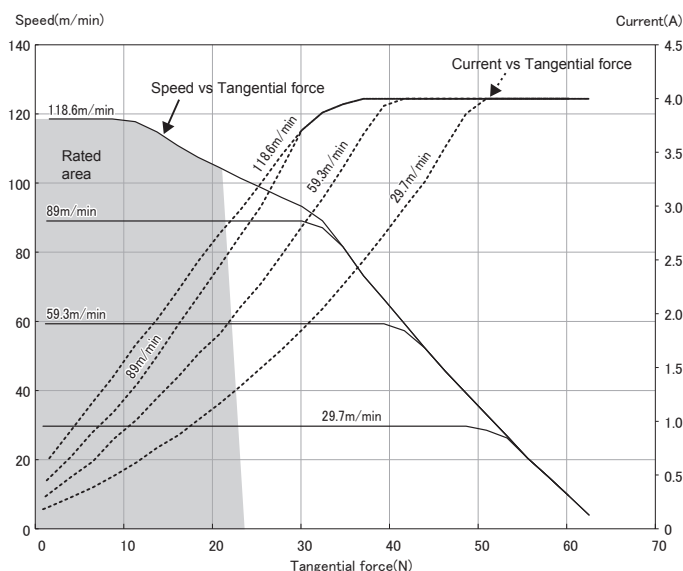
* Internal speed SW3/4 is for HBM-604.



PM570FE-90

Speed (m/min)	Tangential Force (N)	Input Current (A)	Power Input (W)	Power Output (W)	Rotary SW No
No-load	Rated	Starting	No-load	Starting	
118.6	21	0.6	41	66	9
108.8	21	0.5	41	65	8
98.9	21	0.5	39	64	7
89.0	22	0.4	35	58	6
79.1	22	0.4	31	53	5
69.2	22	0.4	27	49	4
59.3	22	0.3	23	43	3
49.4	22	0.3	20	38	2
39.5	22	0.2	17	37	1
29.7	23	0.2	13	32	0

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

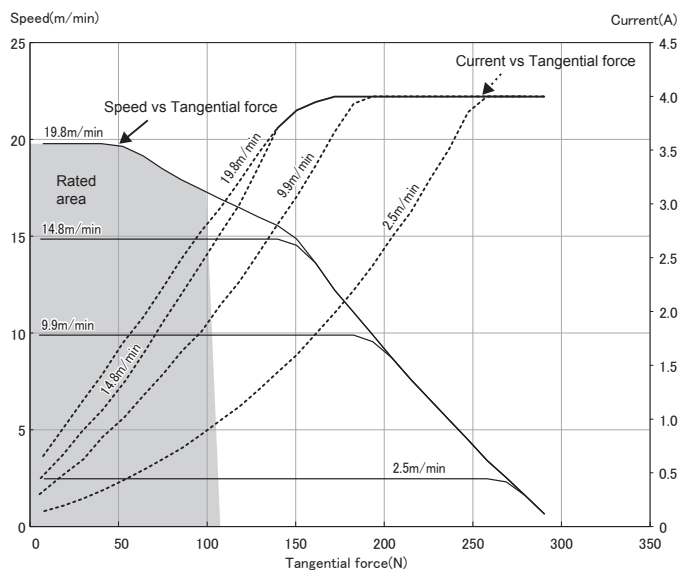


 [MDR Selection Tool] is available on our web page.

Operating characteristics with IB-E03 driver card

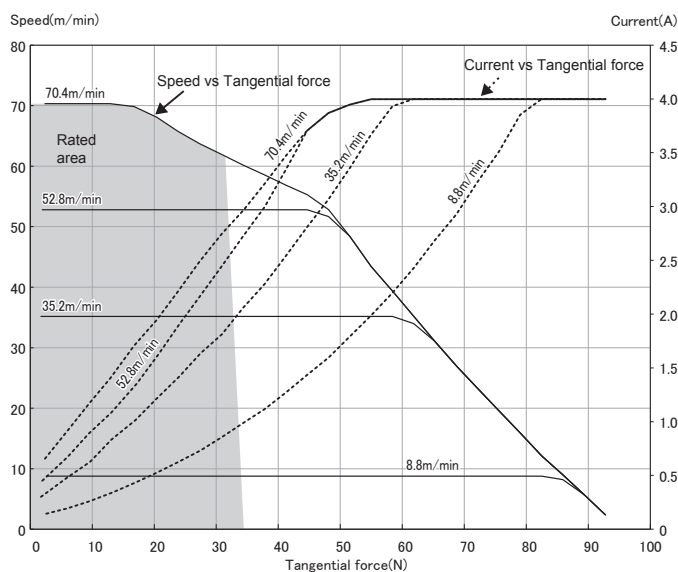
PM570FE-17

Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)	Power Input (W)	Power Output (W)
No-load	Rated	Starting	No-load	Starting	
19.8	99		0.6		41 66
18.1	99		0.5		41 66
17.3	99		0.5		41 66
16.5	99		0.5		40 65
15.7	101		0.5		39 64
14.8	101		0.4		37 62
13.2	101		0.4		34 60
12.4	101		0.4		32 57
11.5	104		0.4		30 54
10.7	104		0.4		28 51
9.9	104		0.3		26 49
8.2	104		0.3		20 38
6.6	107		0.2		17 37
4.9	107		0.2		13 32
3.3	107		0.2		9 27
2.5	107		0.2		7 24



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Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)	Power Input (W)	Power Output (W)
No-load	Rated	Starting	No-load	Starting	
70.4	32		0.6		41 66
64.5	32		0.5		41 66
61.6	32		0.5		41 66
58.6	32		0.5		40 65
55.7	32		0.5		39 64
52.8	32		0.4		37 62
46.9	32		0.4		34 60
44.0	32		0.4		32 57
41.1	33		0.4		30 54
38.1	33		0.4		28 51
35.2	33		0.3		26 49
29.3	33		0.3		20 38
23.5	34		0.2		17 37
17.6	34		0.2		13 32
11.7	34		0.2		9 27
8.8	34		0.2		7 24



PM570FE-90

Speed (m/min)	Tangential Force (N)	Force (N)	Input Current (A)	Power Input (W)	Power Output (W)
No-load	Rated	Starting	No-load	Starting	
118.6	21		0.6		41 66
108.8	21		0.5		41 66
103.8	21		0.5		41 66
98.9	21		0.5		40 65
93.9	22		0.5		39 64
89.0	22		0.4		37 62
79.1	22		0.4		34 60
74.2	22		0.4		32 57
69.2	22		0.4		30 54
64.3	22		0.4		28 51
59.3	22		0.3		26 49
49.4	22		0.3		20 38
39.5	23		0.2		17 37
29.7	23		0.2		13 32
19.8	23		0.2		9 27
14.8	23		0.2		7 24

