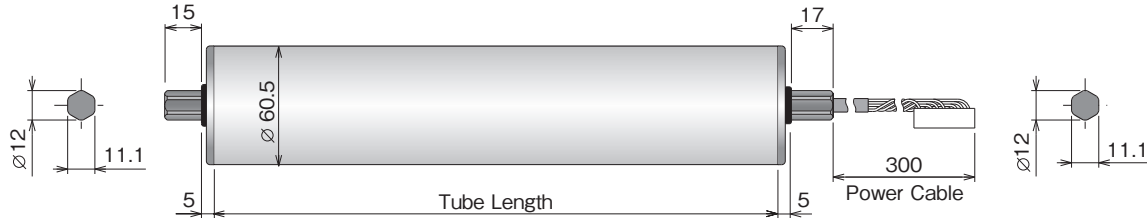


Minimum
tube lengthSpring
loaded shaft**MDR Brushless DC Motor standard type PM605FE****Roller diameter $\varnothing 60.5$** **Roller diameter $\varnothing 60.5$**
PM605FE

- **Roller diameter** / $\varnothing 60.5$
- **Thickness** / t3.2
- **Voltage** / 24V DC
- **Tube material** / STKM12
- **Surface treatment** / Trivalent chromate processing

**Tube Length : PM605FE**

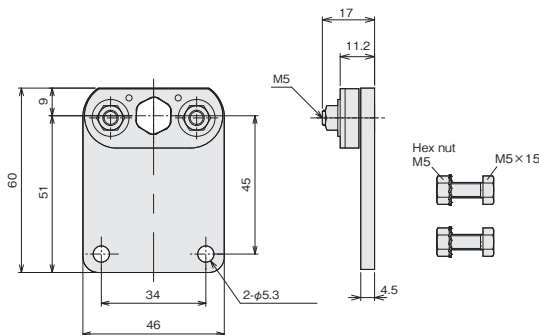
	300mm	300mm $\leq$							
Tube Length (mm)	300	400	500	600	700	800	900	1000	
Weight (kg)	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	
Spring loaded shaft	☐	☐	☐	☐	☐	☐	☐	☐	

- 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 :**PM605FE - 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 3.5Nm for securing the bracket.

Options : PM605FE**Rubber Laggings - NR, UR, NB, CR**

Natural rubber, Urethane, NBR, Neoprene

 **Built-In Brake - BR ^{※1}** 370mm 370mm $\leq$  **Drip Proof ^{※2}** 310mm 310mm $\leq$  **Water Proof ^{※2}** 310mm 310mm $\leq$  **Poly V-Belt Pulley** 300mm 300mm $\leq$  **V-Belt Pulley** 300mm 300mm $\leq$ **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.

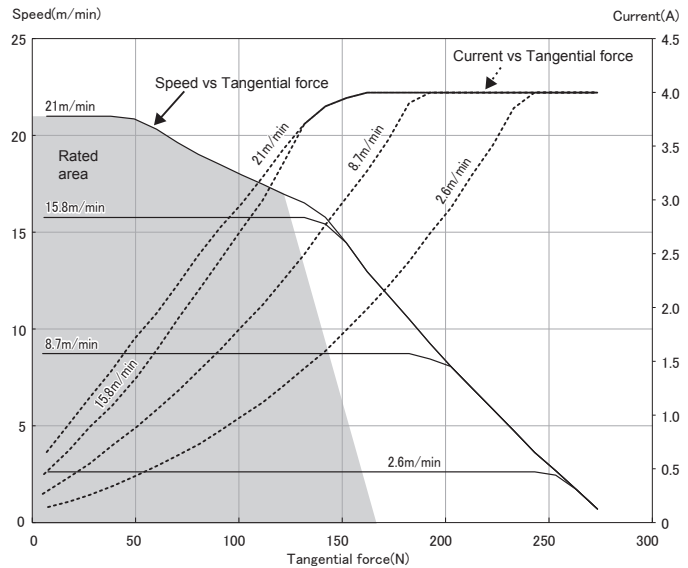
(A standard mounting bracket is No. MBD-081-D.)

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

Operating characteristics with CB-016 driver card

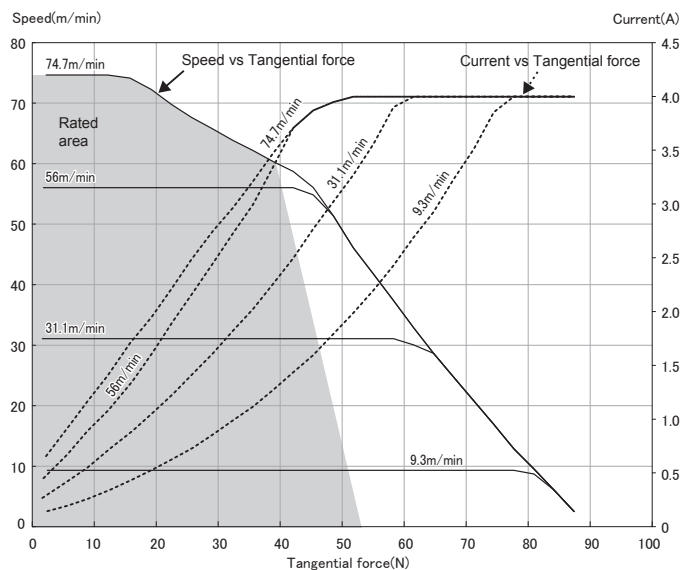
PM605FE-17

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
21.0	121	0.8	50	83	9	9.6~9.9
19.3	121	0.7	50	83	8	9.1~9.4
18.4	121	0.7	50	83	7	8.6~8.9
17.5	121	0.6	50	83	6	8.1~8.4
16.6	121	0.6	50	83	5	7.6~7.9
15.8	123	0.6	47	82	4	7.1~7.4
14.0	128	0.5	45	79	3	6.6~6.9
13.1	131	0.5	42	76	2	6.1~6.4
12.3	133	0.5	39	73	1	5.6~5.9
11.4	136	0.5	37	71	0	5.1~5.4
10.5	138	0.4	36	71	9	4.6~4.9
9.6	141	0.4	33	70	8	4.1~4.4
8.7	143	0.4	30	66	7	3.6~3.9
7.9	146	0.4	28	61	6	3.1~3.4
7.0	148	0.3	24	61	5	2.6~2.9
6.1	151	0.3	23	60	4	2.1~2.4
5.2	153	0.3	20	54	3	1.6~1.9
4.4	156	0.2	16	53	2	1.1~1.4
3.5	158	0.2	13	50	1	0.6~0.9
2.6	161	0.2	11	47	0	0.1~0.4



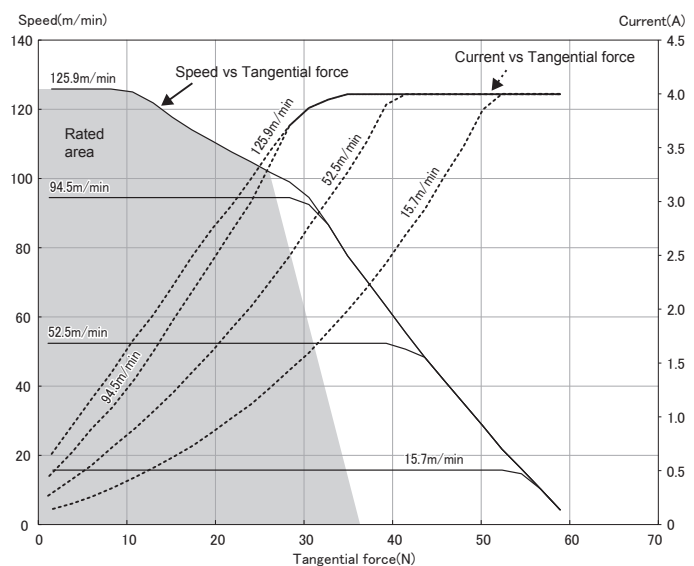
PM605FE-60

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
74.7	39	0.8	50	83	9	9.6~9.9
68.5	39	0.7	50	83	8	9.1~9.4
65.4	39	0.7	50	83	7	8.6~8.9
62.2	39	0.6	50	83	6	8.1~8.4
59.1	39	0.6	50	83	5	7.6~7.9
56.0	39	0.6	47	82	4	7.1~7.4
49.8	41	0.5	45	79	3	6.6~6.9
46.7	42	0.5	42	76	2	6.1~6.4
43.6	43	0.5	39	73	1	5.6~5.9
40.5	43	0.5	37	71	0	5.1~5.4
37.3	44	0.4	36	71	9	4.6~4.9
34.2	45	0.4	33	70	8	4.1~4.4
31.1	46	0.4	30	66	7	3.6~3.9
28.0	47	0.4	28	61	6	3.1~3.4
24.9	47	0.3	24	61	5	2.6~2.9
21.8	48	0.3	23	60	4	2.1~2.4
18.7	49	0.3	20	54	3	1.6~1.9
15.6	50	0.2	16	53	2	1.1~1.4
12.4	51	0.2	13	50	1	0.6~0.9
9.3	51	0.2	11	47	0	0.1~0.4



PM605FE-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
125.9	26	0.8	50	83	9	9.6~9.9
115.4	26	0.7	50	83	8	9.1~9.4
110.2	26	0.7	50	83	7	8.6~8.9
104.9	26	0.6	50	83	6	8.1~8.4
99.7	26	0.6	50	83	5	7.6~7.9
94.5	27	0.6	47	82	4	7.1~7.4
84.0	28	0.5	45	79	3	6.6~6.9
78.7	28	0.5	42	76	2	6.1~6.4
73.5	29	0.5	39	73	1	5.6~5.9
68.2	29	0.5	37	71	0	5.1~5.4
62.9	30	0.4	36	71	9	4.6~4.9
57.7	30	0.4	33	70	8	4.1~4.4
52.5	31	0.4	30	66	7	3.6~3.9
47.2	31	0.4	28	61	6	3.1~3.4
42.0	32	0.3	24	61	5	2.6~2.9
36.7	32	0.3	23	60	4	2.1~2.4
31.5	33	0.3	20	54	3	1.6~1.9
26.2	34	0.2	16	53	2	1.1~1.4
21.0	34	0.2	13	50	1	0.6~0.9
15.7	35	0.2	11	47	0	0.1~0.4

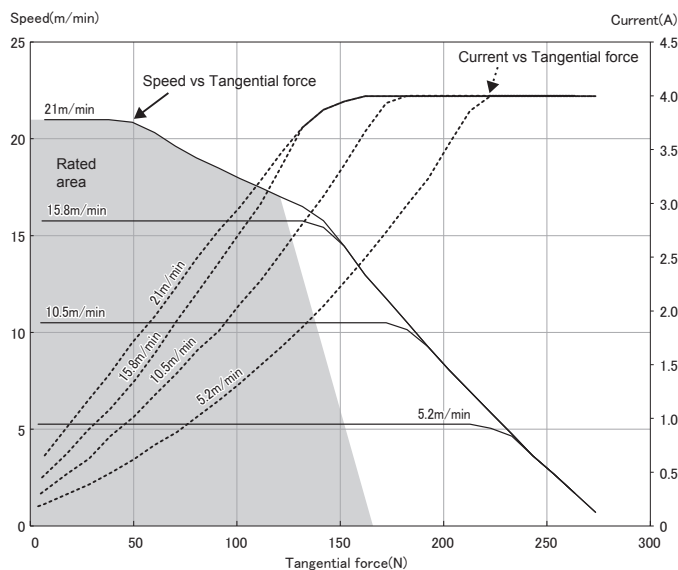


 [MDR Selection Tool] is available on our web page.

Operating characteristics with HB-510 driver card

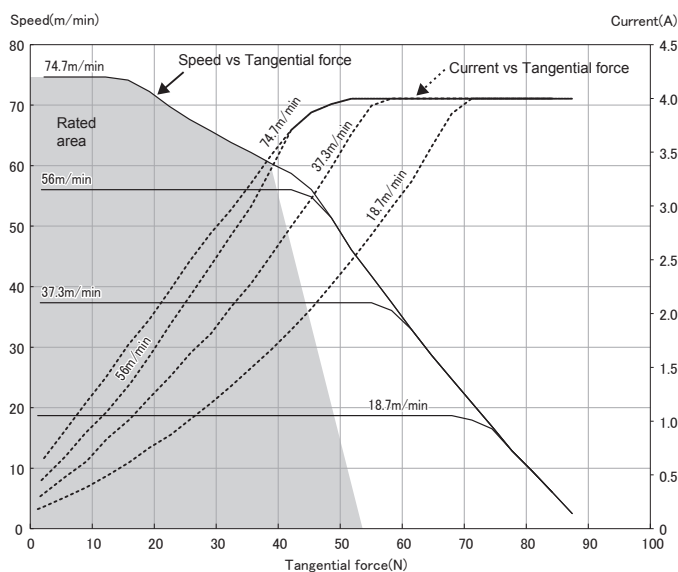
PM605FE-17

Speed (m/min)	Tangential (N)	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				
21.0	121	277	0.8	4.0	50	83	9	9.3~9.7
19.3	121		0.7		50	83	8	8.3~8.7
17.5	121		0.6		50	83	7	7.3~7.7
15.8	123		0.6		47	82	6	6.3~6.7
14.0	128		0.5		45	79	5	5.3~5.7
12.3	133		0.5		39	73	4	4.3~4.7
10.5	138		0.4		36	71	3	3.3~3.7
8.7	143		0.4		30	66	2	2.3~2.7
7.0	148		0.3		24	61	1	1.3~1.7
5.2	153		0.3		20	54	0	0.3~0.7



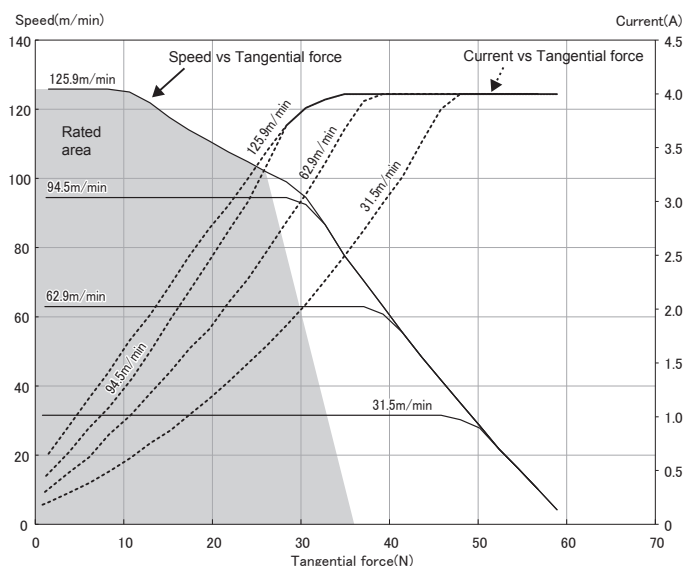
PM605FE-60

Speed (m/min)	Tangential (N)	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				
74.7	39	88	0.8	4.0	50	83	9	9.3~9.7
68.5	39		0.7		50	83	8	8.3~8.7
62.2	39		0.6		50	83	7	7.3~7.7
56.0	39		0.6		47	82	6	6.3~6.7
49.8	41		0.5		45	79	5	5.3~5.7
43.6	43		0.5		39	73	4	4.3~4.7
37.3	44		0.4		36	71	3	3.3~3.7
31.1	46		0.4		30	66	2	2.3~2.7
24.9	47		0.3		24	61	1	1.3~1.7
18.7	49	0.3	20	54	0	0.3~0.7		



PM605FE-90

Speed (m/min)	Tangential (N)	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				
125.9	26	60	0.8	4.0	50	83	9	9.3~9.7
115.4	26		0.7		50	83	8	8.3~8.7
104.9	26		0.6		50	83	7	7.3~7.7
94.5	27		0.6		47	82	6	6.3~6.7
84.0	28		0.5		45	79	5	5.3~5.7
73.5	29		0.5		39	73	4	4.3~4.7
62.9	30		0.4		36	71	3	3.3~3.7
52.5	31		0.4		30	66	2	2.3~2.7
42.0	32		0.3		24	61	1	1.3~1.7
31.5	33		0.3		20	54	0	0.3~0.7



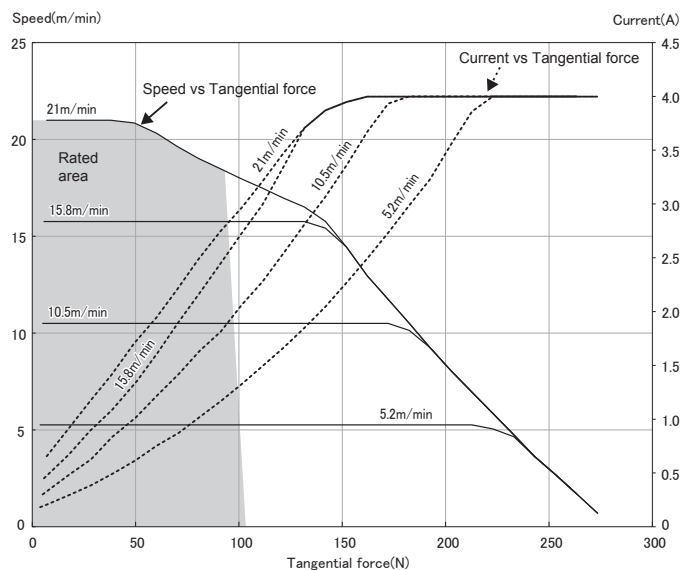
 [MDR Selection Tool] is available on our web page.

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

PM605FE-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			
21.0	93		0.6		41	66	9
19.3	93		0.5		41	65	8
17.5	93		0.5		39	64	7
15.8	96		0.4		35	58	6
14.0	96		0.4		31	53	5
12.3	96		0.4		27	49	4
10.5	98		0.3		23	43	3
8.7	98		0.3		20	38	2
7.0	98		0.2		17	37	1
5.2	101		0.2		13	32	0

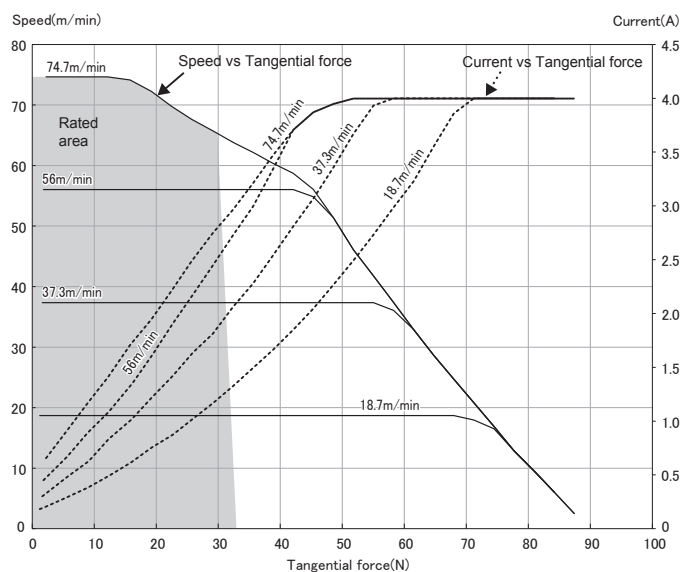
* Internal speed SW3/4 is for HBM-604.



PM605FE-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			
74.7	30		0.6		41	66	9
68.5	30		0.5		41	65	8
62.2	30		0.5		39	64	7
56.0	31		0.4		35	58	6
49.8	31		0.4		31	53	5
43.6	31		0.4		27	49	4
37.3	31		0.3		23	43	3
31.1	31		0.3		20	38	2
24.9	31		0.2		17	37	1
18.7	32		0.2		13	32	0

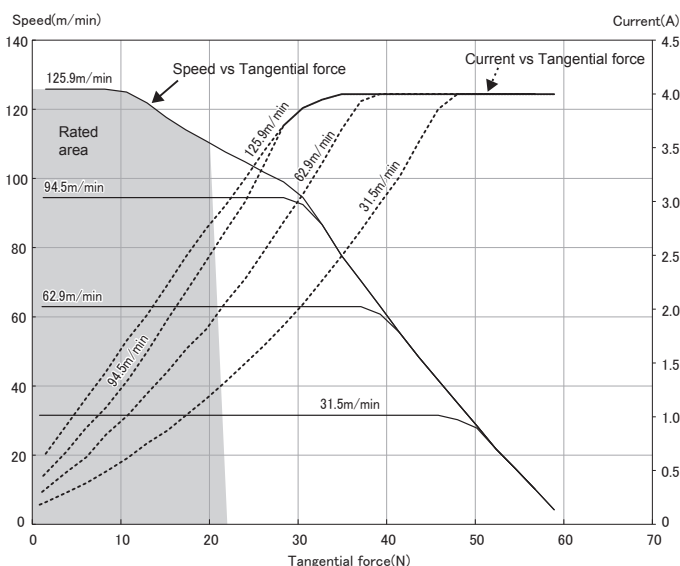
* Internal speed SW3/4 is for HBM-604.



PM605FE-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			
125.9	20		0.6		41	66	9
115.4	20		0.5		41	65	8
104.9	20		0.5		39	64	7
94.5	21		0.4		35	58	6
84.0	21		0.4		31	53	5
73.5	21		0.4		27	49	4
62.9	21		0.3		23	43	3
52.5	21		0.3		20	38	2
42.0	21		0.2		17	37	1
31.5	22		0.2		13	32	0

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

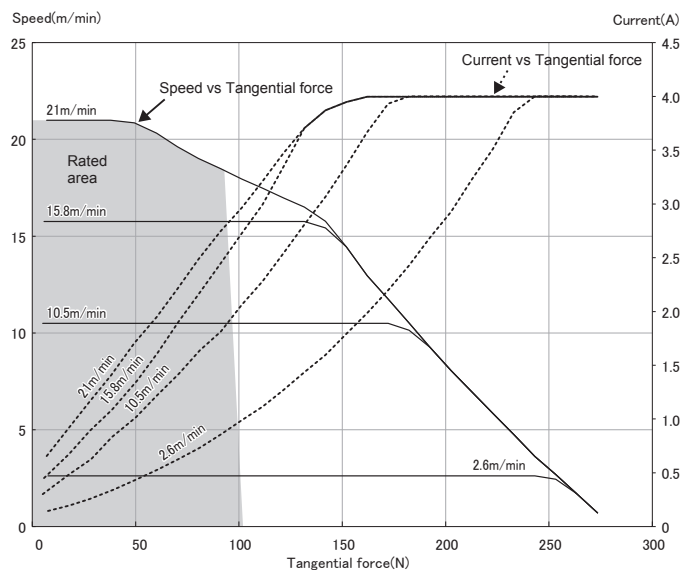


 [MDR Selection Tool] is available on our web page.

Operating characteristics with IB-E03 driver card

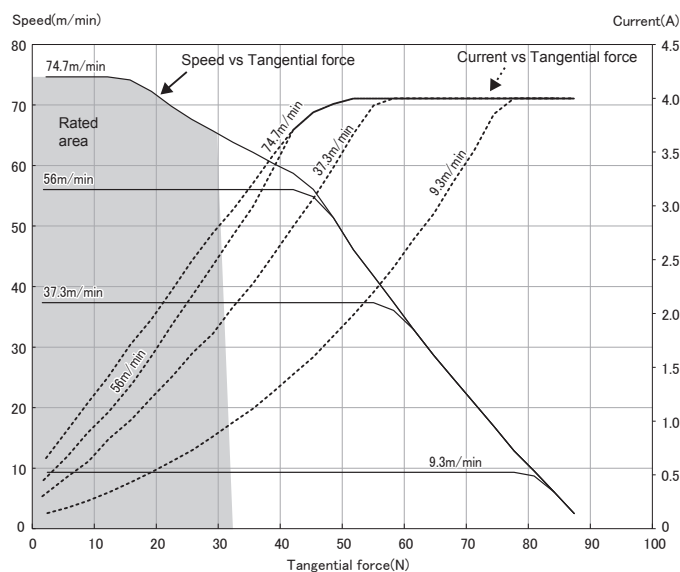
PM605FE-17

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
21.0	93		0.6		41	66
19.3	93		0.5		41	66
18.4	93		0.5		41	66
17.5	93		0.5		40	65
16.6	96		0.5		39	64
15.8	96		0.4		37	62
14.0	96		0.4		34	60
13.1	96		0.4		32	57
12.3	98		0.4		30	54
11.4	98		0.4		28	51
10.5	98		0.3		26	49
8.7	98		0.3		20	38
7.0	101		0.2		17	37
5.2	101		0.2		13	32
3.5	101		0.2		9	27
2.6	101		0.2		7	24



PM605FE-60

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
74.7	30		0.6		41	66
68.5	30		0.5		41	66
65.4	30		0.5		41	66
62.2	30		0.5		40	65
59.1	31		0.5		39	64
56.0	31		0.4		37	62
49.8	31		0.4		34	60
46.7	31		0.4		32	57
43.6	31		0.4		30	54
40.5	31		0.4		28	51
37.3	31		0.3		26	49
31.1	31		0.3		20	38
24.9	32		0.2		17	37
18.7	32		0.2		13	32
12.4	32		0.2		9	27
9.3	32		0.2		7	24



PM605FE-90

Speed (m/min)	Tangential Force (N)		Input Current (A)		Power Input (W)	Power Output (W)
	No-load	Rated	No-load	Starting		
125.9	20		0.6		41	66
115.4	20		0.5		41	66
110.2	20		0.5		41	66
104.9	20		0.5		40	65
99.7	21		0.5		39	64
94.5	21		0.4		37	62
84.0	21		0.4		34	60
78.7	21		0.4		32	57
73.5	21		0.4		30	54
68.2	21		0.4		28	51
62.9	21		0.3		26	49
52.5	21		0.3		20	38
42.0	22		0.2		17	37
31.5	22		0.2		13	32
21.0	22		0.2		9	27
15.7	22		0.2		7	24

