



Minimum tube length



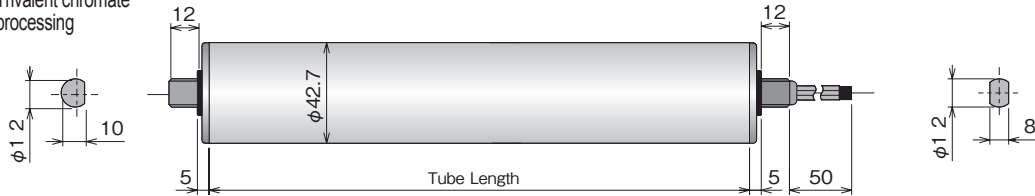
Spring loaded shaft

AC For handling light load Roller PM427 series

Roller diameter $\phi 42.7$

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- Roller diameter / $\phi 42.7$
- Thickness / t1.5
- Shaft diameter / $\phi 12$
- Voltage / 3ph 200V, 1ph 100V
(Single-phase specification is PM427AS series only)
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing



Operation

Standard type AS series

Continuous duty 24 hours Intermittent Operation Minimum contact time 3 seconds ON, 2 seconds OFF

Accumulation type AU series

This high-impedance low-current rating motor does not burn out even when locked continuously. Starting torque and tangential force is lower than standard motors. Used for continuous or intermittent operation with no restriction of fact time.

Tube Length : PM427AS / PM427AU

Minimum 200mm 220mm \leq

Tube Length (mm)	200	250	300	400	500	600	700	800
Weight (kg)	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.0
Spring loaded shaft	X	O	O	O	O	O	O	O

- 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.
- PM427AU can be produced from the minimum dimension of 200mm, and spring loaded shaft from 230mm and higher.

Product Designation :

PM427AS - 10 - 300 - 3 - 200 - BR

Power Moller model Nominal Tube Speed Length Voltage Options

Motor type : AS / AU

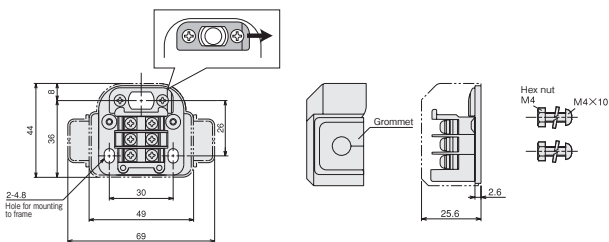
Nominal Speed : 5,8,10,15,20,30 (30 is only for PM427AS)

Tube Length : Specify in mm.

Voltage : 3ph-200V / 1ph-100V etc.
Please inquire for other voltage.

Options : Each of the following optional specification may be selected.

Terminal Bracket : No.E-920



- Drawing data can be downloaded from our web page.
- In the case of water-proof or drip-proof specification, No.E-021-D is the standard accessory.
- Grommet is removable
- Apply 0.7Nm torque for securing the Power Moller mounting shaft, and 1.7Nm for securing the bracket.
- The frame thickness is not allowed to exceed 3.8mm. Slide the fixing plate to the slot of the shaft to fix it.

Operating characteristics : PM427AS

3ph 200V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.7	19.7	64.6	0.42	1.38	0.06	0.06	0.08	2.3	12.5
8	7.1	13.1	42.6	0.28	0.91					
10	10.7	8.4	28.1	0.18	0.60					
15	15.0	7.0	23.4	0.15	0.50					
20	23.0	4.7	15.5	0.10	0.33					
30	35.6	2.8	9.8	0.06	0.21					

3ph 200V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	5.6	13.6	52.9	0.29	1.13	0.05	0.05	0.07	1.9	10.5
8	8.5	8.9	35.1	0.19	0.75					
10	12.9	6.1	23.0	0.13	0.49					
15	18.0	5.2	19.2	0.11	0.41					
20	27.5	3.3	12.6	0.07	0.27					
30	42.8	1.9	8.0	0.04	0.17					

1ph 100V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.7	10.8	23.4	0.23	0.50	0.11	0.12	0.13	1.6	10.0
8	7.1	7.0	15.5	0.15	0.33					
10	10.7	4.7	10.3	0.10	0.22					
15	15.0	4.2	9.4	0.09	0.20					
20	23.0	2.8	6.1	0.06	0.13					
30	35.6	1.9	3.7	0.04	0.08					

*Capacitor external connection 3 μ F/220V

1ph 100V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	5.6	9.4	26.7	0.20	0.57	0.11	0.11	0.13	1.7	10.0
8	8.5	6.1	17.8	0.13	0.38					
10	12.9	4.2	11.7	0.09	0.25					
15	18.0	3.7	10.3	0.08	0.22					
20	27.5	2.3	7.0	0.05	0.15					
30	42.8	1.4	4.2	0.03	0.09					

*Capacitor external connection 3 μ F/220V

- Please inquire for other voltage.
- Rated speed shown is when loaded. The value at no load, light load and overload varies. Select a right one by referring to "Caution for Design".

Options : PM427AS / PM427AU

Rubber Laggings - NR, UR, NB, CR
Natural rubber, Urethane, NBR, Neoprene P.149

BR Built-In Brake - BR
Minimum 250mm 270mm \leq P.150~

WA Water Proof**
Minimum 250mm 250mm \leq P.152

DR Drip Proof**
Minimum 200mm 220mm \leq P.153

- ** Available nominal speed is 5~15. But available nominal speed is different for single-phase 100V specification. Torque value may be reduced by nominal speed. Inquire with us for more detail.
- For other specification, refer to P.155.
- PM427AU built-in brake, water-proof or drip-proof specification cannot be produced.



PM380AS/PM427AS and Accumulation (AU) type cannot used with an inverter. Reduced transfer torque or unstable operation is possible.

Operating characteristics : PM427AU

3ph 200V/50Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	4.7	15.5	45.0	0.33	0.96	0.04	0.04	0.05	1.7	7.7
8	7.1	10.3	30.0	0.22	0.64					
10	10.7	6.6	19.7	0.14	0.42					
15	15.0	5.6	16.4	0.12	0.35					
20	23.0	3.7	10.8	0.08	0.23					

3ph 200V/60Hz

Nominal Speed (m/min)	Rated Speed (m/min)	Tangential Force(N)		Torque(N·m)		Input Current(A)			Input (W)	Output (W)
		Rated	Starting	Rated	Starting	No-load	Rated	Starting		
5	5.6	9.8	35.1	0.21	0.75	0.03	0.03	0.05	1.4	6.4
8	8.5	6.6	23.4	0.14	0.50					
10	12.9	4.2	15.5	0.09	0.33					
15	18.0	3.7	12.6	0.08	0.27					
20	27.5	2.3	8.4	0.05	0.18					

- Please inquire for other voltage.
- Rated speed shown is when loaded. The value at no load, light load and overload varies. Select a right one by referring to "Caution for Design".

*The values in the characteristics list are only for your reference and not the warranted values. The values represent the characteristics of a single standard motor roller(no linked operation) without including other specifications, and the values may change when including other specifications or with linked operation.