



Minimum tube length



Spring loaded shaft

# AC For handling light load Roller PM380 series

Roller diameter  $\varnothing 38$

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- Roller diameter /  $\varnothing 38$
- Thickness / t1.2
- Shaft diameter /  $\varnothing 12$
- Voltage / 3ph 200V, 1ph 100V  
(Single-phase specification is PM380AS series only)
- Tube material / STKM12
- Surface treatment / Trivalent chromate processing

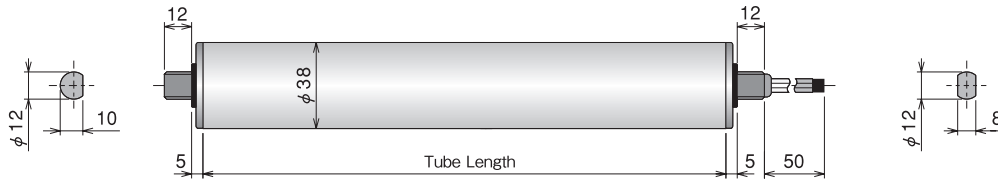
## Operation

### 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 tact time.



## Tube Length : PM380AS / PM380AU

Tube Length (mm)	200	250	300	400	500	600
Weight (kg)	0.9	1.0	1.1	1.2	1.3	1.4
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.
- \*PM380AU can be produced from the minimum dimension of 200mm, and spring loaded shaft from 230mm and higher.

## Product Designation :

**PM380AS - 10 - 300 - 3 - 200 - BR**

Power Moller model    Nominal Speed    Tube Length    Voltage    Options

Motor type : AS / AU

Nominal Speed : 5,8,10,15,20,30 (30 is only for PM380AS)

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.

## Operating characteristics : PM380AS

### 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	4.2	22.1	72.6	0.42	1.38	0.06	0.06	0.08	2.3	12.5
8	6.3	14.7	47.9	0.28	0.91					
10	9.5	9.5	31.6	0.18	0.60					
15	13.3	7.9	26.3	0.15	0.50					
20	20.4	5.3	17.4	0.10	0.33					
30	31.7	3.2	11.1	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	5.0	15.3	59.5	0.29	1.13	0.05	0.05	0.07	1.9	10.5
8	7.6	10.0	39.5	0.19	0.75					
10	11.5	6.8	25.8	0.13	0.49					
15	16.0	5.8	21.6	0.11	0.41					
20	24.5	3.7	14.2	0.07	0.27					
30	38.1	2.1	8.9	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	4.2	12.1	26.3	0.23	0.50	0.11	0.12	0.13	1.6	10.0
8	6.3	7.9	17.4	0.15	0.33					
10	9.5	5.3	11.6	0.10	0.22					
15	13.3	4.7	10.5	0.09	0.20					
20	20.4	3.2	6.8	0.06	0.13					
30	31.7	2.1	4.2	0.04	0.08					

\*Capacitor external connection 3 $\mu$ F/220V

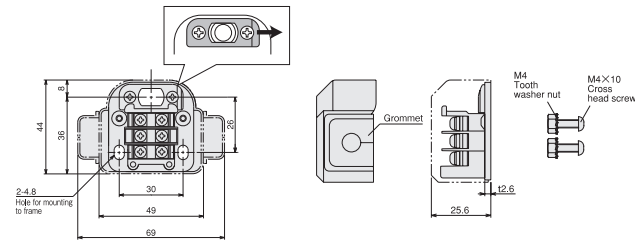
### 1ph 100V/60Hz

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	5.0	10.5	30.0	0.20	0.57	0.11	0.11	0.13	1.7	10.0
8	7.6	6.8	20.0	0.13	0.38					
10	11.5	4.7	13.2	0.09	0.25					
15	16.0	4.2	11.6	0.08	0.22					
20	24.5	2.6	7.9	0.05	0.15					
30	38.1	1.6	4.7	0.03	0.09					

\*Capacitor external connection 3 $\mu$ 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".

## 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 fit it.

## Options : PM380AS / PM380AU

**Rubber Laggings - NR, UR, NB, CR**  
Natural rubber, Urethane, NBR, Neoprene

**BR Built-In Brake - BR**  
250mm  $\geq 270$ mm

**WA Water Proof\*\***  
250mm  $\geq 250$ mm

**DR Drip Proof\*\***  
200mm  $\geq 220$ mm

\*\* 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.  
PM380AU 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 : PM380AU

### 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	4.2	17.4	50.5	0.33	0.96	0.04	0.04	0.05	1.7	7.7
8	6.3	11.6	33.7	0.22	0.64					
10	9.5	7.4	22.1	0.14	0.42					
15	13.3	6.3	18.4	0.12	0.35					
20	20.4	4.2	12.1	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	5.0	11.1	39.5	0.21	0.75	0.03	0.03	0.05	1.4	6.4
8	7.6	7.4	26.3	0.14	0.50					
10	11.5	4.7	17.4	0.09	0.33					
15	16.0	4.2	14.2	0.08	0.27					
20	24.5	2.6	9.5	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".