

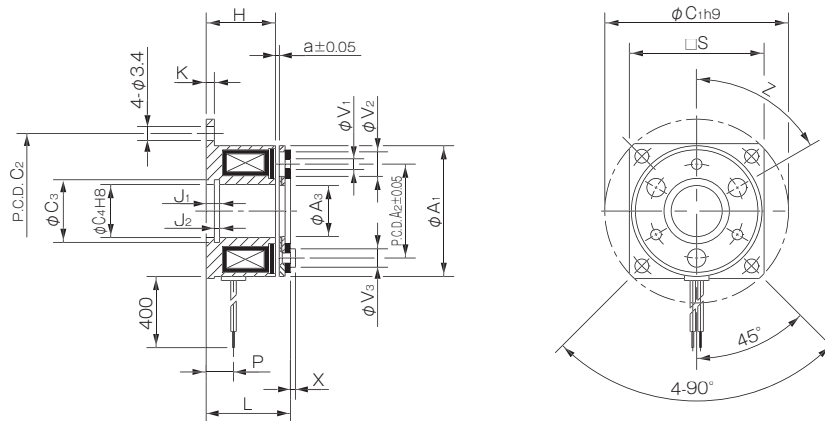
# 112 Models Electromagnetic Micro Brakes

## Specifications

Model	Size	Dynamic friction torque $T_d$ [N·m]	Coil (at 20°C)				Heat resistance class	Max. rotation speed [min <sup>-1</sup> ]	Armature moment of inertia J [kg·m <sup>2</sup> ]	Allowable engaging energy $E_{ea}$ [J]	Total work performed until Readjustment of the air gap $E_r$ [J]	Armature pull-in time $t_a$ [s]	Torque build-up time $t_p$ [s]	Torque decaying time $t_d$ [s]	Mass [kg]	
			Voltage [V]	Wattage [W]	Current [A]	Resistance [ $\Omega$ ]										
112-02-13	02	0.4	DC24	6	0.25	96	B	10000	$6.75 \times 10^{-7}$	1500	$2 \times 10^6$	0.004	0.010	0.010	0.053	
112-02-12									$1.00 \times 10^{-6}$							$1.00 \times 10^{-6}$
112-02-11									$1.00 \times 10^{-6}$							
112-03-13	03	0.6	DC24	6	0.25	96	B	10000	$1.30 \times 10^{-6}$	2300	$3 \times 10^6$	0.005	0.012	0.008	0.072	
112-03-12									$1.95 \times 10^{-6}$							$1.95 \times 10^{-6}$
112-03-11									$1.95 \times 10^{-6}$							
112-04-13	04	1.2	DC24	8	0.33	72	B	10000	$4.38 \times 10^{-6}$	4500	$6 \times 10^6$	0.007	0.016	0.010	0.118	
112-04-12									$6.15 \times 10^{-6}$							$6.15 \times 10^{-6}$
112-04-11									$6.15 \times 10^{-6}$							
112-05-13	05	2.4	DC24	10	0.42	58	B	10000	$9.08 \times 10^{-6}$	9000	$9 \times 10^6$	0.010	0.023	0.012	0.200	
112-05-12									$1.38 \times 10^{-5}$							$1.38 \times 10^{-5}$
112-05-11									$1.38 \times 10^{-5}$							

\* The dynamic friction torque,  $T_d$ , is measured at a relative speed of 100 min<sup>-1</sup>.  
 \* The rotating part moment of inertia and mass are measured for the maximum bore diameter.  
 \* Keep supply voltage fluctuation to within 10% of coil voltage.

## Dimensions (112-□-13)



Unit [mm]

Size	Radial direction dimensions												Axial direction dimensions							
	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	S	V <sub>1</sub>	V <sub>2</sub>	V <sub>3</sub>	Z	H	K	J <sub>1</sub>	J <sub>2</sub>	L	P	X	a
02	28	19.5	10.5	39	33.5	11.4	11	—	2-2.1	2-5.3	2-4	4-90°	13.7	1.5	2.6	1.3	16.1	5	0.8	0.1
03	32	23	12.5	45	38	13.6	13	33	3-2.6	3-6	3-4.5	6-60°	17	2	3.3	1.3	19.3	6.7	1.2	0.15
04	40	30	18.5	54	47	20	19	41	3-3.1	3-6	3-5	6-60°	20	2	3.3	1.3	22.8	7	1.6	0.15
05	50	38	25.5	65	58	27.2	26	51	3-3.1	3-6.5	3-5.5	6-60°	22	2	3.5	1.5	25.2	8	1.6	0.2

\* Size 02 is a rounded flange.

How to Place an Order

112-03-13 24V  

 Size