

## Interactive clutch with locking function INTERACTIVE CLUTCH

### OSC

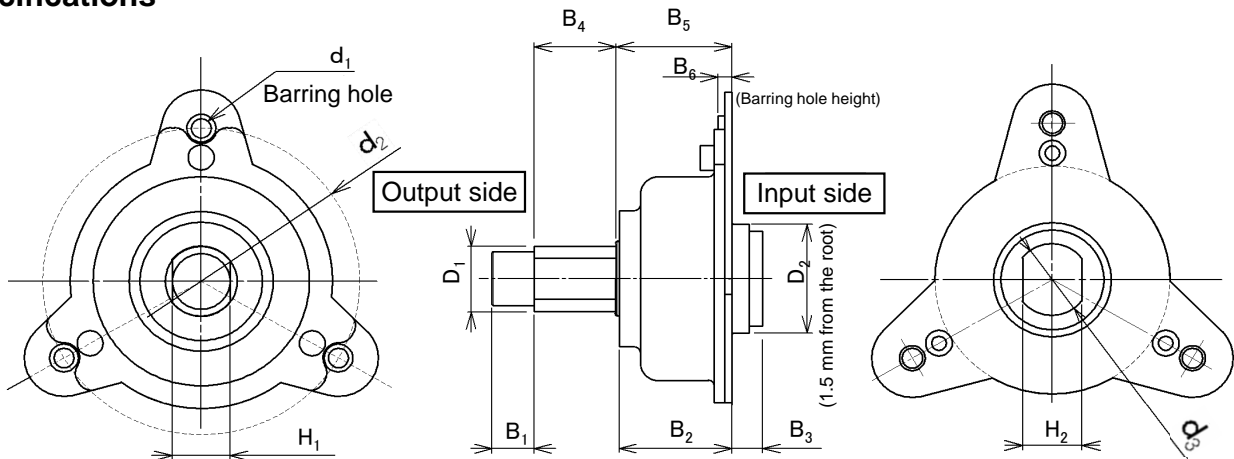
In general, a device such as an electromagnetic brake or electromagnetic clutch is used to transmit or block driving force. However, they may not be readily used due to their requirements for electric wiring, etc. In contrast, an interactive clutch transmits and/or blocks the force without requiring any electric wiring.

#### ■ Features

1. Transmit the force applied on the input axis to the output axis.  
Operation with both rotating directions is available.
2. Block the force from the output axis.  
The OSC interactive clutch blocks the reverse input from the output side.
3. No additional power supply required.  
The OSC interactive clutch transmits and/or blocks the force independently.



#### ■ Specifications



#### Dimensions

Unit = mm

Origin Nominal Number	Output axis projection shape		Input axis hole shape		Barring hole diameter		Pitch circle diameter
	H <sub>1</sub> +0.05 -0.1	D <sub>1</sub> +0.05 -0.05	H <sub>2</sub> +0.1 0	d <sub>3</sub> +0.1 0	d <sub>1</sub> +0.02 -0.02	d <sub>2</sub> +0.2 -0.2	
OSC-8A	8	10	8	10	2.78		44
	Width						Outside dia.
	B <sub>1</sub> +0.2 -0.2	B <sub>2</sub> 0 -0.6	B <sub>3</sub> 0 -0.5	B <sub>4</sub> +0.2 -0.2	B <sub>5</sub> +0.7 +0.05	B <sub>6</sub> +0.2 -0.2	D <sub>2</sub> 0 -0.06
	6	16.2	4.5	11.7	16.3	2	16

#### ■ Reliability

Origin Nominal Number	Braking torque	Lock torque
	Torque required to rotate the input side when the output side is unloaded.	Torque to hold the load applied on the output side.
OSC-8A	50 to 130 N·m	1.0 N·m (Maximum instantaneous torque: 5.0 N·m)

Note: Specifications are subject to change without a notice for future development.

□ Reference data

Conditions

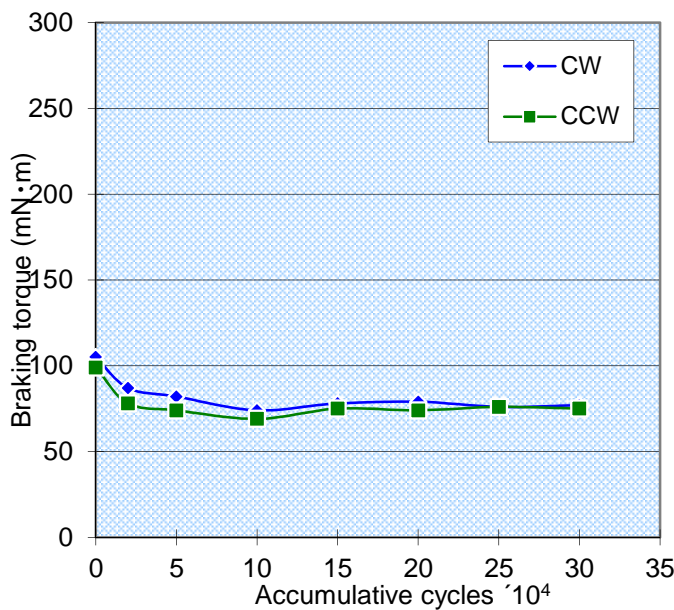
Item	Conditions		
Load (output side)	0.7 N·m	Expected life	200,000 cycles (The operating cycle is as described below.)
	1.0 N·m		50,000 cycles (The operating cycle is as described below.)
Rotation speed	120 rpm		
Environment	Room temperature (23°C)		
Operating cycle	CW 5sec → Pause 1sec → CCW 5sec → Pause 1sec (The above series of operations are considered as one cycle.)		

\*Please contact us for any other conditions.

Evaluation data

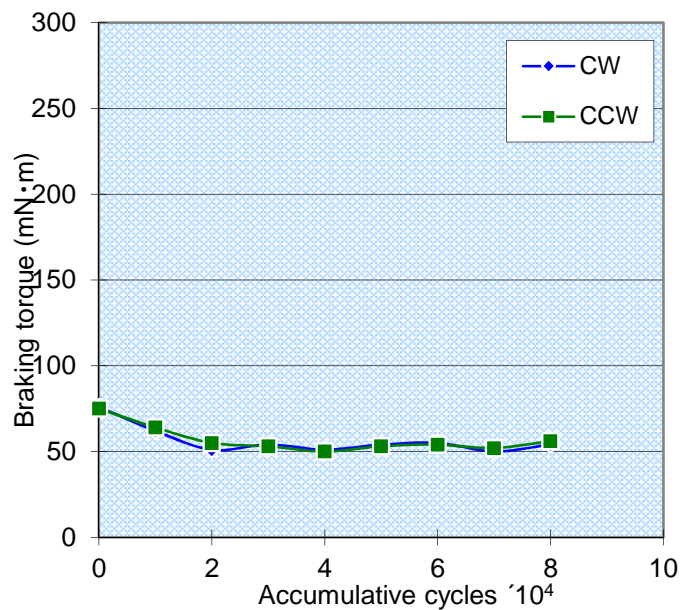
Braking torque - Cycle curve (1)

Conditions: Load 0.7 N·m



Braking torque - Cycle curve (2)

Conditions: Load 1.0 N·m



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