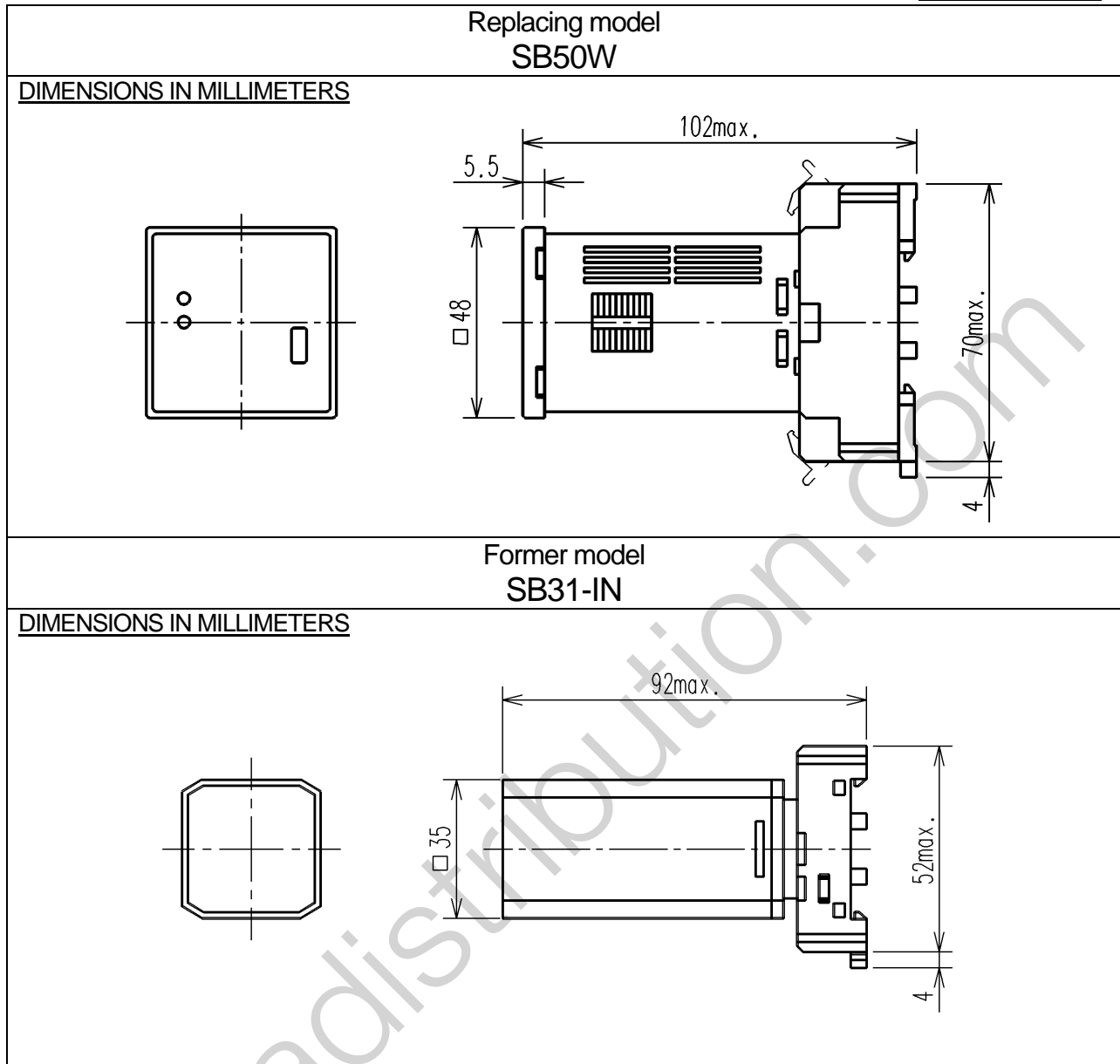


# SB50W / SB31-IN Comparison Data (K series-Reversible Motor) 1/4

## 1. Dimensions

SCALE FREE



©Differ in dimensions.

# SB50W／SB31-IN Comparison Data (K series-Reversible Motor) 2/4

## 2.Specifications

		Replacing model SB50W	Former model SB31-IN
Functions		Instantaneous stop Bi-directional operation Electromagnetic brake control Thermal protector open detection Sink/Source logic switch	Instantaneous stop Bi-directional operation
Power Supply Voltage	[VAC]	Single-phase 100-230±10%	Single-phase 100±10%
Frequency	[Hz]	50/60	50/60
Applicable Motor Output Power	[W]	Reversible motor 1 ~ 90	Reversible motor 1 ~ 60
Input Signal	Method	Photocoupler input (Works under 24VDC±10%)	—
	Signal	CW,CCW, FREE/ALARM-RESET	—
Output Signal	Method	Open-collector output (26.4VDC, 10mA max.)	—
	Signal	ALARM (Thermal protector open detection)*	—
Braking Current Duration		0.2 ~ 0.4 sec.	0.4 sec.
Ambient Temperature		[°C] -10~+40	-10~+50

\* Alarm output doesn't work because no thermal protector is installed.

©Differ in specifications.

3.Connection

Replacing model SB50W	Former model SB31-IN
<p>② (L) Power Supply ① (N) Power Supply ① Black ① Yellow ① White Capacitor ⑥ +24V ⑧ CW Operation Input ⑤ CCW Operation Input ④ Brake Release Input ⑦ GND 24VDC±10% 0.1A min. FG</p>	<p>1W~25W(A-Connection)</p> <p>⑧ Power Supply ① Power Supply ⑦ Black ⑤ Yellow ⑤ White Capacitor ⑧ CW ⑤ CCW ② Run ③ Brake ② Run ③ Brake ④ Brake SW1 SW2 SW3 SW4 Ro Co Ro Co Ro Co Ro Co</p> <p>40W~60W(B-Connection)</p> <p>⑧ Power Supply ① Power Supply ⑦ Black ⑤ Yellow ⑤ White Capacitor ⑧ CW ⑤ CCW ② Run ③ Brake ② Run ③ Brake ④ Brake SW1 SW2 SW3 SW4 SW5 Ro Co Ro Co Ro Co Ro Co Ro Co Ro Co</p>

©Differ in connection.

4.Input / Output Signal Circuit

4-1.Input Signal Circuit

Replacing model SB50W	Former model SB31-IN
<p>24VDC Input 4.7kΩ 560Ω CW Operation Input CCW Operation Input Brake Release Input</p>	<p>None</p>

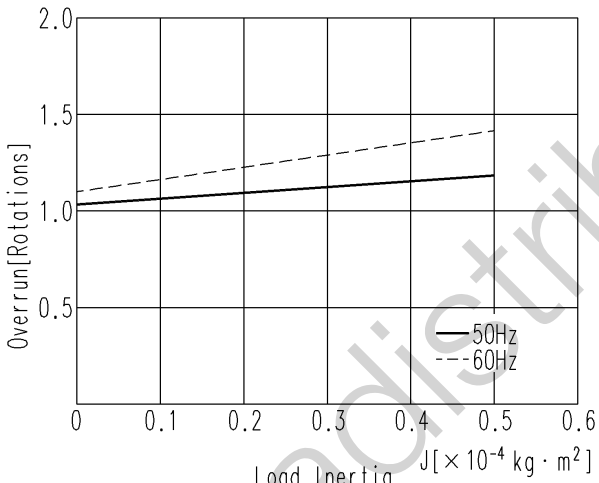
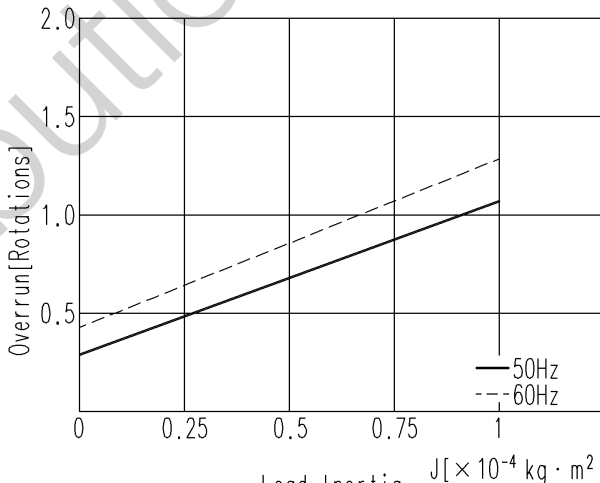
©Input signal circuit added.

4-2. Output Signal Circuit

Replacing model SB50W	Former model SB31-IN
	None

©Output signal circuit added.

5. Braking Characteristics (Reference values)

Replacing model SB50W	Former model SB31-IN
<p>K series · Reversible Motor 25W</p> 	<p>K series · Reversible Motor 25W</p> 

©Differ in characteristics.