

# AUTOMATIC POWER FACTOR CONTROLLER

## Type Q-AUTOMAT/

*Has Enhanced Reliability due to Built-in Microprocessor!  
Maintaining high Power Factor to Save Energy!*

**MS-6Q, MS-8Q & MS-12Q**



## FEATURES

1. Capable of automatic control in 6 steps(MS-6Q), 8 steps(MS-8Q), or 12 steps(MS-12Q).
2. Compact size and enhanced reliability enabled by built-in microprocessor.
3. Capacitor closing and opening time (5~600s/step) can be selected.
4. Capacitor reclosing time(5~240s) can be selected.
5. Four control modes (manual, rotation, automatic and four-quadrant) can be selected.
6. Capable of indicating power factor, current and total harmonic distortion.
7. Can automatically measure C/K value.
8. Capable of setting target power factor (lag 0.8~ lead 0.8).
9. Capable of setting alarms (voltage, current and harmonic).

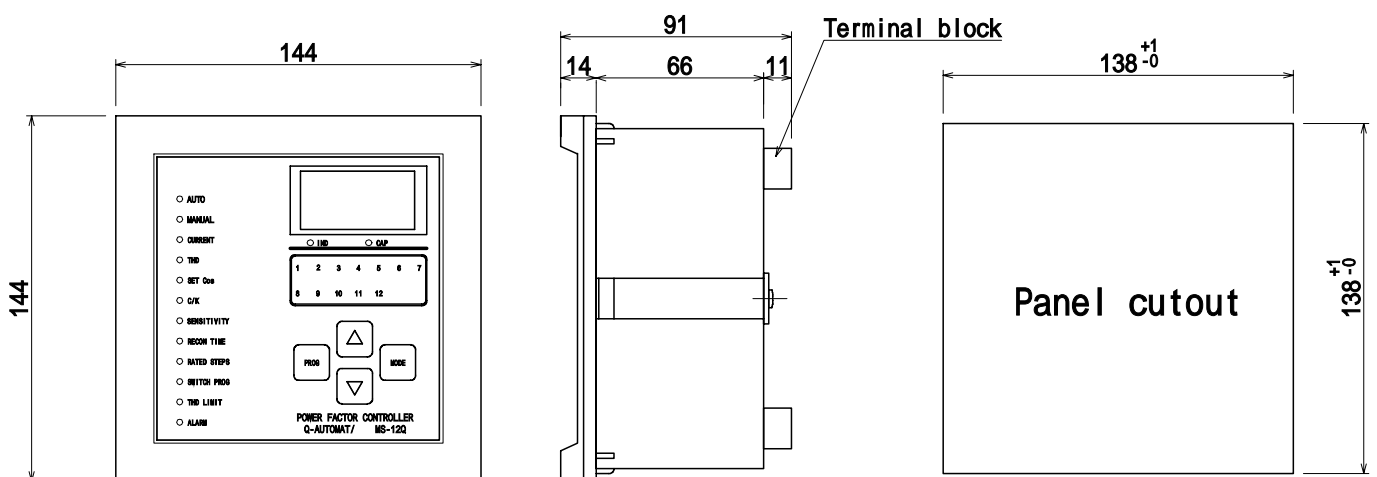
# SPECIFICATION

<b>Auxiliary Supply</b>		<b>Control Range</b>	
Supply voltage	220~240VAC or 380~415VAC	Power factor setting	0.8 inductive - 0.8 capacitive
Operating limits	-15% + 10%	C/K setting	0.03 - 1.20/AtC
Consumption	10VA max	Switching sensitivity	5-600s/step
Frequency	50Hz or 60Hz	Reconnection time for same step	5-240s
<b>Current Input</b>		THD threshold	0.20 - 3.00 (20% - 300%) / OFF
Rated current, I <sub>n</sub>	5A	Switching program	Automatic/Automatic Rotate/Manual/Four-quadrant
Operating limits	0.15A - 6.5A	Rated step coefficient	1/2/3/4/5/6/8/12/16
<b>Relay Output</b>		<b>Temperature</b>	
Numbers of outputs	6/8/12	Operating temperature	0 ~ + 55
Contact arrangement	NO contact type	<b>Mechanical</b>	
Rated capacity	5A 250VAC (Cos φ = 1)	Mounting	Panel mounting
Max current for the Common terminals	12A continuous	Dimension (h X w X d)	144mm X 144mm X 91mm
		Approximate weight	1kg

# MODEL

	Model	Step	Supply Voltage (V)	Frequency (Hz)
1	MS-6Q-240-50	6	220-240	50
2	MS-6Q-240-60			60
3	MS-8Q-240-50	8	220-240	50
4	MS-8Q-240-60			60
5	MS-12Q-240-50	12	220-240	50
6	MS-12Q-240-60			60
7	MS-6Q-415-50	6	380-415	50
8	MS-6Q-415-60			60
9	MS-8Q-415-50	8	380-415	50
10	MS-8Q-415-60			60
11	MS-12Q-415-50	12	380-415	50
12	MS-12Q-415-60			60

# DIMENSIONS (in mm)



For details contact us.

**SHIZUKI ELECTRIC CO., INC.**

10-45, Taisha-cho, Nishinomiya City 662-0867, Japan.

TEL : 0798-74-5821

FAX : 0798-73-0807

URL : <http://www.shizuki.co.jp>