

High-SCCR EMI Filters

SCCR value: 14kA/25kA/50kA



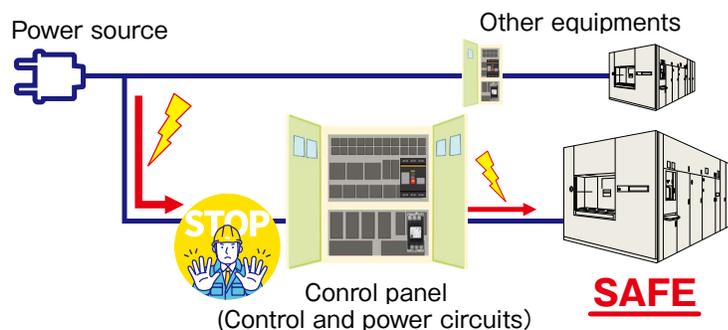
01 EMI Filters are subject to SCCR*¹ in the UL508A

The National Electrical Code (NEC) and NFPA 79, the U.S. electrical standard for industrial machinery, require that the SCCR (Short-Circuit Current Rating) be clearly marked on industrial control panels of equipment exported to the U.S. EMI filters are subject to SCCR requirements under UL 508A and are inspected when exported to North America.

*1 SCCR(Short-Circuit Current Rating) refers to the maximum short-circuit current that the equipment in each power circuit can safely withstand.

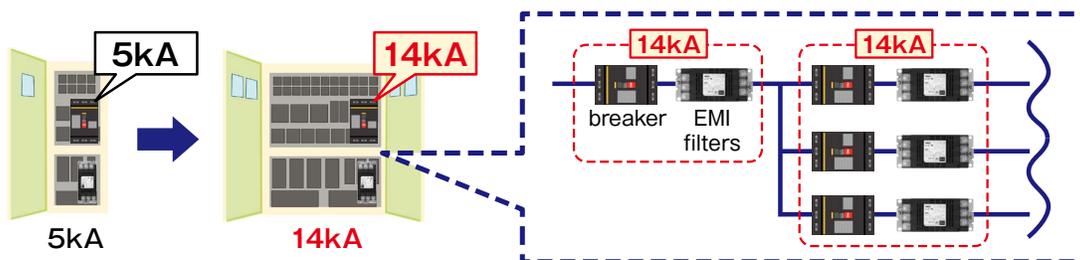
02 Why EMI Filters Require an SCCR?

This is to prevent secondary disasters such as fires caused by short-circuit current in the event of an electrical accident. Since EMI filters do not have built-in protective devices, the effects of short-circuit accidents cannot be determined. Therefore, by conducting SCCR testing in combination with a breaker serving as the protective device, and by verifying that the equipment can withstand the short-circuit current without any abnormalities, the risk of secondary incidents—including smoke or fire—can be eliminated.



03 Why is high SCCR required?

As the control panel capacity increases, the required SCCR value increases accordingly. Since the SCCR of a panel is determined by the lowest SCCR value within it, if the panel includes a branch circuit and EMI filters are installed downstream of that branch, those EMI filters must also have a high SCCR value.



High SCCR value 14kA/25kA/50kA lineup

25kA



50kA



14kA



10kA



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EMI Filters
with High SCCR**

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