



ESSENTIALS Elements

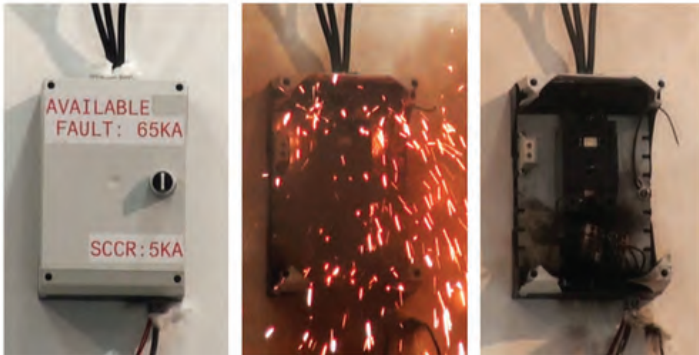
EBARA TECHNOLOGIES, INC.

NEWS & VIEWS - JANUARY 2020

DON'T LET FACILITIES FALL SHORT, KNOW YOUR SCCR

When installing pumps, heaters, abatement systems or any other electrical component it is essential to comply with the Short-Circuit Current Rating (SCCR) code. What is SCCR, why is it important and how is it calculated?

SCCR defined by the Occupational Safety and Health Administration (OSHA) and the National Electrical Code (NEC) as: "The prospective symmetrical fault current at a nominal voltage to which an apparatus or system is able to be connected without sustaining damage exceeding defined acceptance criteria." Simply, SCCR is the maximum short-circuit current an electrical component can safely withstand without causing a shock or fire hazard.



Equipment with insufficient SCCR subjected to a short-circuit event can expose personnel and equipment to serious danger. Without sufficient SCCR, it is likely that the equipment will sustain and cause damage inside and outside of the equipment. Such hazards include electric/arc flash shock and burns, injury associate with arc blasts, shock waves, shrapnel or flying debris, damage to equipment or the facility including vaporized metals (see image).

The smallest SCCR generally determines the electrical panel SCCR rating. In order to calculate your SCCR you will need to identify all the components in the power circuit; disconnects, circuit breakers, overload relays, contactors and terminal blocks or power distribution blocks. Determine the SCCR value for all components in the power circuit. The lowest value for any component or branch circuit, this is the SCCR for the control panel. SCCRs must be properly understood and implemented as performance data typically varies between manufacturers, so be sure to consult the manufactures' data before selecting a fuse. Don't forget that the SCCR rating applies both for individual electrical components and for entire electrical assemblies or systems.

We pride ourselves on best practices and methods to help ensure a safe system. Reach out today to discuss our entire product portfolio and equipment specifications.

Happy New Year!

Ahead > Beyond



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OBSOLETE TURBO PUMP RETROFIT UPGRADES AND SOLUTIONS

Obsolete or legacy turbo products are becoming more difficult and expensive to repair, with many models and needed parts no longer available. Controller electronic parts becoming unavailable and the high cost of rotor replacement makes it expensive for customers to maintain aging turbo installations.

Ebara Technologies, Inc. has the solution with our new Maglev Retrofit upgrade kits for most popular turbo brands and wafer fab tool platforms including: Applied Materials P5000/Centura, LAM Rainbow/PTX, Novellus C2, TEL, SPTS. These kits are developed complete with the necessary hardware for an easy on tool retrofit and so form factor and process chamber parameters are maintained.



Before and after images of an obsolete Model STP300 retrofit with a new Ebara Model EMT390 on an Applied Materials Centura (metal etch chamber) displayed.

We maintain a stock of kits and can provide onsite installation start up and support which improves tool uptime MTBF and reducing customer's overall cost of ownership.

Key Features and Benefits

- Robust Rotor Design For High Flow/Corrosive Processes
- 5 Axis Mag Bearing Turbo
- Heavy Duty Touchdown Bearings Incorporated
- Compact Energy Efficient Design
- Higher Temperature Operation With Precise Management System
- Remote Tool Interface Included In Most Kits

Let us discuss your options!

Contact us directly for further information and pricing at info@ebaratech.com.



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JOIN US AT OUR UPCOMING EVENTS



FOA Q1 2020

Collaborative Forum
Scottsdale, AZ
February 19-20, 2020



NCC AVS

41st Annual Equipment Exhibition
Fremont, CA
February 20, 2020



SESHA

ESH Symposium & Exposition
Scottsdale, AZ
April 13-17, 2020



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