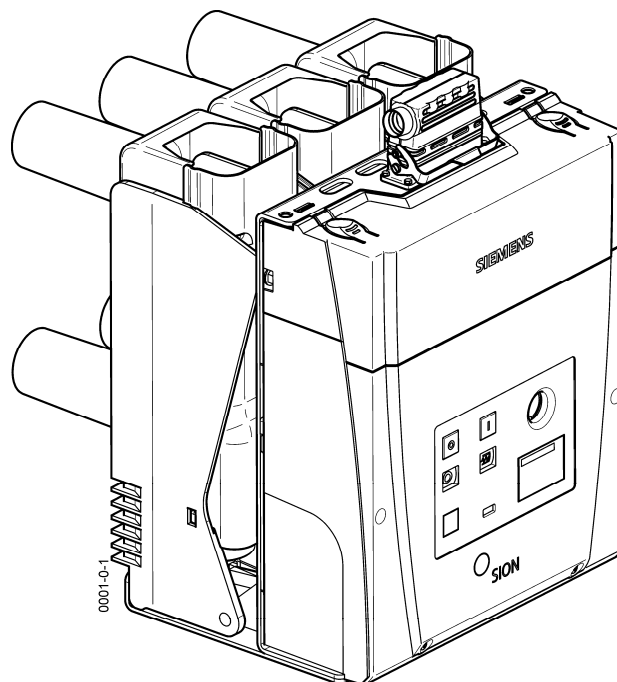


SIEMENS

SION[®]

Vacuum circuit-breakers 3AE –Z M30
7.2–17.5kV, 12.5–31.5kA

OPERATING INSTRUCTIONS



Danger



Risk of injury!

Working on the activated and deactivated SION[®] vacuum circuit-breaker with the spring energy store charged can lead to extremely dangerous injuries.

Before beginning maintenance work, observe the five safety rules for high-voltage devices specified in EN 50110-1, namely

- Disconnect and isolate;
- Safeguard against reactivation;
- Ascertain the safe isolation from supply state;
- Earth and short-circuit;
- Cover or cordon off neighboring live parts.

Close and open the vacuum circuit-breaker manually. By doing so, you will make sure the circuit-breaker is open and the spring energy store is relaxed.

Make sure that maintenance work on the SION[®] vacuum circuit-breaker is carried out only by qualified personnel who are familiar with the operating instructions and who observe the warning notices.

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Ordering location: EPD M C PB1 Log Berlin
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Qualified personnel

For the purpose of these operating instructions or warning notes on the SION[®] vacuum circuit-breaker itself, a "qualified person" is one who is familiar with the installation, construction and operation of the product and the hazards involved. In addition, he has the following qualifications, for example:

- Is trained and authorized to switch on, switch off, ground and mark circuits and equipment in accordance with established safety practices.
- Is trained in the proper care and use of protective equipment in accordance with established safety practices.
- Is trained in rendering first aid.

Note



Product liability claims are preserved only if maintenance work is carried out by Siemens personnel trained and certified to do so.

Preventive maintenance

SION[®] -Z M30 vacuum circuit-breakers are approved, thanks to design measures and the application of special testing technology, for a useful life of up to 30,000 mechanical switching cycles provided the recommended maintenance measures are observed.

To maintain the reliability of the SION[®] -Z M30 vacuum circuit-breaker for a useful life of 30,000 switching cycles, we recommend maintenance work be carried out regularly by Siemens certified personnel, depending on operating conditions in compliance with IEC 62271-1 (ambient temperature, humidity, load carrying capacity and installation altitudes), the mechanical switching cycles and the operating time:

- After 10,000 and 20,000 switching cycles, perform visual inspections and lubricate and grease moving parts such as latches, rollers and levers in the operating mechanism.
- If there is a need to replace parts of the SION[®] -Z M30 vacuum circuit-breaker, especially the motor, the closing spring completely (including the recoil spring), the shock absorber and the transmission may only be replaced by Siemens certified personnel.

Service

For details of contacts for service work, consult Siemens PTD Services

Phone: +49 180/5247000

Fax: +49 180/5242471 or

- Internet Web address: www.siemens.com/energy-support
- By email: support.energy@siemens.com
- Any local Siemens office.

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