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SERVICE SUISSE DE CERTIFICATION
SERVIZIO SVIZZERO DI CERTIFICAZIONE
SWISS CERTIFICATION SERVICE

SCES 008

suvaPro

CERTIFICATION

Type-examination certificate no. E 6372.e

Object: contactor

Mark: Allen-Bradley

Type designation: 100S-C60*; 100S-C72*; 100S-C85* contactors
104S-C60*; 104S-C72*; 104S-C85* contactors
100S-FA*; 100S-FB* auxiliary switches, front-mounted

Technical details concerning safety: mechanically linked contacts
(positively driven contacts, forced contacts, forcibly guided contacts)

Manufacturer's address: Rockwell Automation AG
Buchserstrasse 7
CH-5000 Aarau

Applicant's address: Rockwell Automation AG
Buchserstrasse 7
CH-5000 Aarau

Special conditions, enclosures: see supplementary sheet 1/1

Expires on: 31 July 2006

The prototype tested satisfies the relevant provisions of Directive 98/37/EC (formerly Council Directive 89/392/EEC and its amendments) of the European Parliament and of the Council on the approximation of the laws of the Member States relating to machinery.

This certificate is valid in conjunction with the general provisions listed on the reverse and any previously mentioned enclosures.

Place and date:

Lucerne, 5 July 2001

Suva
Accredited Certification body
Technology Sector

The Safety Engineer
Peter Kocher

Head of Certification
Guido Schmitter

General conditions

This type-examination certificate is valid for products bearing the trade mark and type shown on the front page. In order to guarantee its compliance with Directive 89/392/EEC for machines or Directive 89/686/EEC for personal safety equipment, each object must be marked in accordance with the requirements of the directive given on the front page and its changes.

Under the trade mark and type designation stated on the front page, the manufacturer or supplier undertakes to deliver only products which, in all aspects that may influence their safety, are *identical to the certificated type*. This certificate automatically becomes invalid if this condition is not fulfilled.

When assessing the product mentioned on the front page, it has been assumed that its design and manufacture correspond to the recognized state of technology.

With regard to the operating and servicing instructions supplied with the product, we refer to the requirements stated on the front page.

If organizational measures are required to guarantee safety, they must be made known to the buyer and the user and given in the operating and servicing instructions.

According to EN 45011, the manufacturer is obliged to report any complaints regarding the product described on the front page as well as the remedying of faults to the certification body without delay.

Area of application, commissioning, free passage of goods, certification procedures and CE marking must comply with the conditions of the directive stated on the front page.

Reference may be made to this type-examination certificate in quotations, brochures, advertisements or other publicity media.

Upon request, the term of validity of the certificate can be extended if the product with the relevant conditions of use continues to fulfil the applicable safety requirements.

However, if new experience or findings indicate that adequate safety is no longer guaranteed or the product no longer corresponds to the latest state of technology, the type-examination certificate can be invalidated by Suva's certification body at any time.

Accredited Certification Body acc. to EN 45011, Accreditation No. SCES 008

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Supplementary sheet to Certificate no. E 6372.e

Lucerne, 5 July 2001

In context with the above type-examination certificate the meaning of the term "mechanically linked contacts" is as follows:

For
contactors:

If any main contact is closed, no auxiliary contact (mirror contact) is closed
(IEC 60947-4-1, draft Annex F, 17B/1140/CDV)

For contactor relays and auxiliary switches:

If any NO contact is closed, none of the NC contacts is closed.
If any NC contact is closed, none of the NO contacts is closed.
(IEC 60947-5-1, Annex L)

For safety-related applications only devices (contactors, contactor relays, contactors with auxiliary switches, and contactor relays with auxiliary switches) may be used, that are equipped with at least one NO contact and at least one NC contact.

The use of type S devices containing irremovably mounted type S auxiliary switches ensures that all contacts of the complete device are mechanically linked.

In order to prevent manual operation in safety-relevant parts of control systems, protective covers have to be used.

Sheet 1/1

Last page of the supplementary sheet to Certificate no. E 6372.e.