

## Type-examination certificate no. 6874/1.e

**Object:** contactor

**Make:** Sprecher+Schuh

**Type designation:** CAS6-95-...; CAS6-110-...; CAS6-140-...; CAS6-180-... contactors  
CASU6-95-...; CASU6-110-...; CASU6-140-...; CASU6-180-... rev. cont.  
CAS6-S1-11 auxiliary switches, side-mounted

**Technical details concerning safety:** mirror contacts according to IEC 60947-4-1:2009-09 (Edition 3.0), Annex F  
Details concerning useful life B10 see supplementary sheet 1/1

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

**Address of applicant:** Rockwell Automation AG  
Buchserstrasse 7  
CH-5000 Aarau

**Special conditions, enclosures:** see supplementary sheet 1/1

**Expires on:** 28 February 2015

The prototype examined corresponds to the essential health and safety requirements according to Articles 3 and 4 of the Federal Law on the Safety of Technical Equipment and Appliances of 19 March 1976 and its amendment of 18 June 1993.

This certificate is valid in conjunction with the general conditions listed on the back and any possible enclosures mentioned above.

**Place and date:**  
Luzern, 24 February 2010

Suva  
Accredited Certification Body SCESp 008  
Technology Sector

**The Safety Engineer**  
Peter Kocher

**Head of Certification**  
Guido Schmitter

*Peter Kocher*

**Supplementary sheet to Certificate no. 6874/1.e**

**Luzern, 24 February 2010**

The type-examination certificate is valid for the following types:

**contactors:**

CAS6-95-...-22C-...	CAS6-95-...-33LC-...
CAS6-110-...-22C-...	CAS6-110-...-33LC-...
CAS6-140-...-22C-...	CAS6-140-...-33LC-...
CAS6-180-...-22C-...	CAS6-180-...-33LC-...
CASU6-95-...-22C-...	CASU6-95-...-33LC-...
CASU6-110-...-22C-...	CASU6-110-...-33LC-...
CASU6-140-...-22C-...	CASU6-140-...-33LC-...
CASU6-180-...-22C-...	CASU6-180-...-33LC-...

**explanation:**

22C : auxiliary contacts: 2 NO, 2 NC  
33LC : auxiliary contacts: 3 NO, 2 NC, 1 late-breaking NC

**auxiliary switches:**

CAS6-S1-11 : 1 NO, 1 NC

In context with this type-examination certificate the meaning of the term "mirror contacts" is as follows:  
If any main contact is closed, then no mirror contact (auxiliary contact) is closed  
(IEC 60947-4-1:2009-09 (Edition 3.0), Annex F).

Details concerning useful life B10 according to IEC 60947-4-1:2009-09 (Edition 3.0), Annex K:

Type	B10	Utilization
CAS6-180...	1'000'000	AC-3, max. 90% Ie
CASU6-180...	1'000'000	AC-3, max. 90% Ie

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

For safety-related applications only undelayed NC contacts may be used.

The use of type S devices ensures that the NC contacts of the auxiliary switches are mechanically linked to the main contacts in the sense of a mirror contact. If one or more main contacts are closed, even in case of welded contacts, then the NC contacts of the auxiliary switches cannot be closed simultaneously.

Manual operation is prevented by design.