



## Type-examination certificate no. E 7202.e

Object: contactor

Mark: ABB

Type designation: AFS116-30 (contactors)

AFS146-30 (contactors)

CAL19-11 (auxiliary switches) CEL19-01 (auxiliary switches)

**Technical details concerning** 

safety:

The product meets the requirements of

IEC 60947-4-1:2009 + A1:2012.

Mirror contacts according to IEC 60947-4-1, Annex F.

Details concerning useful life B10 see supplementary sheet 1/1.

Manufacturer's address: ABB AB, Control Products

Motorgränd 20 SE-721 61 Västeras

Address of applicant: ABB AB, Control Products

Motorgränd 20 SE-721 61 Västeras

Special conditions,

enclosures:

See supplementary sheet 1/1

Expires on: 30 September 2024

The prototype examined corresponds to the essential requirements of Directive 2014/35/EU and the amendments of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits. This certificate is valid in conjunction with the general conditions listed on the back and any possible enclosures mentioned above.

Place and date:

Suva

Lucerne, 26 September 2019

Peter Kosher

Accredited Certification Body SCESp 0008

**Technology Sector** 

The Safety Engineer

Peter Kocher

**Head of Certification** 

Guido Schmitter





## Supplementary sheet to Certificate no. E 7202.e Page 1 / 1

Lucerne, 26 September 2019

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, Annex F)

Details concerning useful life B10 according to IEC 60947-4-1, Annex K:

Type B10 conditions

AFS116-30 1'300'000 AC-3, max. 50% le AFS146-30 1'300'000 AC-3, max. 50% le