



DNV

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-6187

This Certificate consists of 3 pages

This is to certify that the
Overcurrent Relay
with type designation(s)

E 16 DU, E 200 DU, E 320 DU, E 500 DU and E 800 DU

Manufactured by

ABB Stotz-Kontakt GmbH
Heidelberg, Germany

is found to comply with

Det Norske Veritas' Rules for Classification of Ships and Mobile Offshore Units

Application

Electronic overcurrent relay for installations inside switchboard/enclosures onboard ships and offshore units.

Place and date

Høvik, 2002-04-26

for DET NORSKE VERITAS AS



Local Office
DNV Essen

This Certificate is valid until

2003-12-31

Marit Laumann
Marit Laumann
Surveyor

Arne Færevaaag
Arne Færevaaag
Head of Section

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: E-6187
File No.: 824.10

Product description

Type: Electronic Overload Relay E 16 DU, E 200 DU, E 320 DU, E 500 DU and E 800 DU

Type Designation	Current range	Order no.	Trip class
E16DU 0,32	0,1...0,32 A	1SAX111201R0001	10
E16DU 1,00	0,3...1,0 A	1SAX111201R0002	10
E16DU 2,7	0,9...2,7 A	1SAX111201R0003	10
E16DU 6,3	2,0...6,3 A	1SAX111201R0004	10
E16DU 18,9	5,7...18,9 A	1SAX111201R0005	10
E16DU 0,32	0,1...0,32 A	1SAX111301R0001	20
E16DU 1,00	0,3...1,0 A	1SAX111301R0002	20
E16DU 2,7	0,9...2,7 A	1SAX111301R0003	20
E16DU 6,3	2,0...6,3 A	1SAX111301R0004	20
E16DU 18,9	5,7...18,9 A	1SAX111301R0005	20
E16DU 0,32	0,1...0,32 A	1SAX111401R0001	30
E16DU 1,00	0,3...1,0 A	1SAX111401R0002	30
E16DU 2,7	0,9...2,7 A	1SAX111401R0003	30
E16DU 6,3	2,0...6,3 A	1SAX111401R0004	30
E16DU 18,9	5,7...18,9 A	1SAX111401R0005	30
E 200 DU	60 ...200 A	1SAX511001R0001	10/20/30
E 320 DU	100 ...320 A	1SAX611001R0002	10/20/30
E 500 DU	150 ...500 A	1SAX711001R0001	10/20/30
E 800 DU	250 ...800 A	1SAX811001R0001	10/20/30

Max operating voltage: 690 V AC.

Application/Limitation

Temperature class: C (-25 to 55 °C)
Humidity class: A (up to 96% humidity)
Vibration class: A (5-50 Hz)

Type Approval documentation

Test report: DECRC-E3-01/38-93/314a dated 98-05-13.
AN 30/98 dated 98-09-06
AN 31/98 dated 98-09-06
New test reports: BFS test report No. 4543/00 dated 00-06-07
AN 25/99 dated 99-05-21
Datasheet E200-E800 DU 1SAC 1001 01 L0101 dated 00-03-02



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Tests carried out

Tested according to IEC 60947-4-1, IEC 60947-5-1, EN 50 081-1 / 1992 and EN 50 082-2 / 1995.

Marking of product

Product marking: ABB STOTZ-KONTAKT - Type designation.

Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at renewal only.

END OF CERTIFICATE

