



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

CERTIFICATE No. E-4794  
This Certificate consists of 3 pages

*This is to certify that the*  
**Contactor**

*with type designation(s)*  
**KC22E to KC62E**

*Manufactured by*  
**ABB Control**  
**Chassieu Cedex, France**

*is found to comply with*  
DET NORSKE VERITAS' RULES FOR CLASSIFICATION OF SHIPS AND MOBILE OFFSHORE UNITS.

*Application*  
For installations inside switchboard/enclosures onboard ships and offshore units.

*Place and date*  
Høyvik, 05 October 1998  
for DET NORSKE VERITAS AS  
  
Henning B. Karlsen  
Head of Section



Local Office  
DNV Lyon

*This Certificate is valid until*  
31 December 2002

  
Kjetil Asland  
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

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. This provision of 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-4794  
File No.: 823.20

## Product description

Contactors with DC operated coil.

Type: KC22E, KC31E, KC40E, KC44E and KC62E

Type designation:	Cat.no.
KC 22E ...	FPH141 3001R..22..
KC 31E ...	FPH141 3001R..31..
KC 40E ...	FPH141 3001R..40..
KC 44E ...	FPH142 3001R..44..
KC 62E ...	PFH142 3001R..62..

with accessories: CA5..., TP...DA, TP...IA, VBC 30.

Max. operating voltage:	690V AC.
Coil voltage:	12 - 250 V DC.

Temp. class:	C (-25 to 55 deg.C)
Humidity class:	A (up to 96% humidity)
Vibration class:	A (5-50 Hz)

## Application/Limitation

For installations inside switchboard/enclosures onboard ships and offshore units.

## Type Approval documentation

Test report: DEMKO, Canadian Standards Association,  
NEMKO, Brown Boveri publication No. DNG 3089 84 E and  
Test Certificates Q3-B86.07/22. ABB Control Test report 80596-EX1.