

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-6838
This Certificate consists of 3 pages

This is to certify that the
Terminal Block
with type designation(s)
Plug Connectors


Manufactured by
Phoenix Contact GmbH & Co. KG
Blomberg, Germany

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and
Mobile Offshore Units

Application
Marine and offshore switchgear and control panels

Place and date
Høvik, 2004-01-22

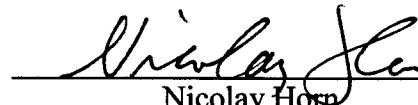
for DET NORSKE VERITAS AS


Gro Elisabeth Paulsrud
Head of Section



Local Office
DNV Essen

This Certificate is valid until
2007-12-31


Nicolay Horn
Surveyor

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.



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File No.: 828.30

Product description

Type	Rated Cross-section (mm ²)	Rated Current (A)	Rated Insulation Voltage (V)	Order.-No.
HCC 4-M	4/4	25	500	1600014
HCC 4-F	4/4	25	500	1600001
PC 4/X*-STF-7,62	4/4	20	400	1828278
PC 4/X*-G-7,62(BF)	---	20	400	1804823
PCV 4/X*-G-7,62(BF)	---	20	400	1804713
DFK-PC 4/X*-GF-7,62	4/4	20	400	1840586

* Pole numbers 2 up to 12.

End cover, partition plate and separating plate to be used according to Phoenix catalogue.

Application/Limitation

As to the workmanlike mounting, the accessories indicated in the Phoenix-catalogue shall be taken into consideration.

The product can be manufactured at four different locations:

1. Phoenix Contact in Blomberg,
2. Phoenix Feinbau GmbH & Co. KG in Lüdenscheid,
3. Elektrotechnik Crottendorf in Crottendorf
4. PPE Wielkopolska SP.Z O.O in Nowy Tomysl, Poland

The machining tools are shipped back and forth between the different companies, depending on free capacities.

Type Approval documentation

Type designation	Data sheet	Date	DS-No
PC 4/..-STF-7,62.	EV-FEA/Sb/Schu	95.04.03	0014 Rev. 00
PC 4/..-STF-7,62.	EV-FEA/Sb/Schu	95.04.03	0072 Rev. 00
PC 4/..-STF-7,62.	EV-FEA/Sb/Schu	95.07.08	0332 Rev. 00

Tests carried out

IEC 60947-7-1: 1989, E DIN VDE 0627: 1993(partly) and DIN EN 60999: 1994 (partly).



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Marking of product

Phoenix contact - 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