



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-6895
This Certificate consists of 4 pages

This is to certify that the
Enclosure for Electrical Equipment
with type designation(s)

PS, MC, DK-PS, PS, PS-EMC, PS-IVS, PC, ES, ES-EMC, ES-IVS, AE, AE-EMC, AE-IVS, DK-AE, KL, KL-EMC, EB, EB-EMC, EB-BUS, BG, IE, AK, AP, AS, CP6000, KS, EL, CP, VR, DK-VR, VIP6000, FR, FR-EMC, AG

Designed by
Rittal GmbH & Co.KG
Herborn, Germany


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

Application
For installations inside switchboard, distributionboard and control gear enclosures.
Vibration test is carried with empty enclosures, equipment installation has to ensure vibration compliance.

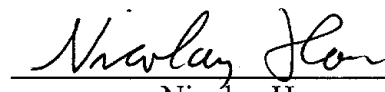
Enclosure protection	IP20, 54, 55, 56 or 66
Vibration class	A

Place and date
Høvik, 2004-04-15
for DET NORSKE VERITAS AS

This Certificate is valid until
2006-12-31


Gro Elisabeth Paulsrud
Head of Section


Local Office
DNV Essen


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.: 829.20

Product description

Enclosures for Electrical Equipment

Type	Max. dimension wxhxd (mm)
PS	2100x2200x1000
MC	2100x2200x800
DK-PS-with roof plate for cable entry	2100x2200x800
DK-PS-with glazed door	800x2200x800
DK-PS	1000x2200x800
PS-EMC	1000x2200x800
PS-IVS	2100x2200x1000
PC	1200x2200x1000
PC - operating housing	600x800x600
ES	1800x2200x800
ES-EMC	1000x2200x800
ES-IVS	1800x2200x800
DK-ES	1800x2200x800
AE	200x300x300
AE - one door	1000x1400x600
AE - two door	1400x1400x600
AE-EMC	1400x1400x600
AE-IVS	1400x1400x600
DK-AE	1400x1400x600
KL with gland plate	800x400x300
KL without gland plate	800x400x300
KL-EMC	800x400x300
KL-Bus	800x400x300
EB	800x600x500
EB-EMC	800x600x500
EB-BUS	800x600x500
BG	800x600x500
IE	500x500x160
AK	1600x1800x600
AP	1600x1300x600
AS	1200x1800x600
CP 6000 operating and keyboard housing	600x500x800
CP 6000 based on VC	600x400x600
CP 6000 with display front	600x600x600
CP 6500 based on AE	600x500x600
KS without viewing window - one door	800x1000x500
KS without viewing window - two door	1000x1000x500
KS with viewing window	1000x1000x500



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Type	Max. dimension wxhxd (mm)
EL 3-part 1 Modul System	600x800x600
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CP -19" Front	800x1200x600
VR	1200x2200x1100
DK-VR	1200x2200x1100
VIP 6000	1400x1800x800
FR	1600x2600x1100
FR-EMC	1600x2600x1100
GA	500x600x260

All enclosures, except KS and GA, are made of sheet metal or stainless steel.

Application/Limitation

The type approval is regarded as a design principle only. Case by case approval may be required. To be considered in each case.

The selection of material in the enclosure and IP degree is to be in accordance with the Rules requirements.

Type Approval documentation

Staatliches Materialprüfungsamt Nordrhein-Westfalen, Dortmund, Report No. 130418 4 85.
UL Report no. E76083 dated 08.03.89, Tuv Report no. B10030 dated 23.03.89, 9110 4435 dated 21.10.91

Tests carried out

Vibration, flammability and salt mist test.
(All tests on empty enclosures only.)

Certificate retention/renewal 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)
- Review of type approval documentation
- Review of possible change in design, materials and performance



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- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed on renewal only.

END OF CERTIFICATE