DNV·GL

Certificate No:
TAE00001UA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)
Polyester Enclosures Series CP

Issued to
Bernstein AG
Porta Westfalica, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Enclosure protection	**IP66**
Vibration class	**A**

Issued at **Hamburg** on **2017-05-18**
This Certificate is valid until **2022-05-17**.
DNV GL local station: **Magdeburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**

Duy Nam Le
Head of Section

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

1. Polyester Enclosure Series CP-… , CPS-… Empty Enclosures
2. Polyester Enclosure Series CPG-… U, CPS-… U, Ex-protected Empty Enclosures
3. Polyester Enclosure Series CPG-… Ex, CPS-… Ex, Ex-protected Junction boxes

Type

1. Polyester Enclosure Series CP-… , CPS-…

CP-140 up to CP-460	Glass fibre-reinforced polyester grey
CPS-140 up to CPS-460	Glass fibre-reinforced polyester black
Seal	Different materials
Dimensions	LxWxH(mm) 80x75x55 up to 400x405x165
Degree of Protection	IP66

2. Polyester Enclosure Series CPG-… U, CPS-… U

CPG-140 up to CPG-460	Glass fibre-reinforced polyester grey
CPS-140 up to CPS-450	Glass fibre-reinforced polyester black
Seal	EPDM or silicone seal
Dimensions	LxWxH(mm) 80x75x55 up to 400x405x165
Degree of Ex –protection	ATEX see Certificate IECEX see Certificate EAC see Certificate

3. Polyester Enclosure Series CPG-… Ex, CPS-…Ex

CPG-140 up to CPG-460	Glass fibre-reinforced polyester grey
CPS-140 up to CPS-450	Glass fibre-reinforced polyester black
Seal	EPDM or silicone seal
Dimensions	LxWxH(mm) 80x75x55 up to 400x405x165
Degree of Ex –protection	ATEX see Certificate IECEX see Certificate EAC see Certificate

Application/Limitation

Location Classes:
Temperature: A, Humidity: B, Vibration: A

Conditions of the Certificates IBExU16ATEX1130 U, IBExU16ATEX1131 have to be observed

Type Approval documentation

	CP-…	CPG-… U, CPS-…U	CPG-… Ex, CPS-… EX
IBEXU		X	X
EAC		X	X
cULus	X		

IBEXU: IBExU16ATEX1197U, IBExU16ATEX1198 X
IBEXU: IECEx IBE 16.0036U, IECEx IBE 16.0037X
UL: File E182 164
EAC: No. 0189981

Tests carried out

EN 60079-0, EN 600079-7, EN 60079-11, EN 60079-31
IEC 600079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31
Cold, dry heat, damp heat, vibration, flame retardancy

Marking of product

Bernstein Trade Mark, Name of Product

Periodical assessment

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

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to 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.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE