Certificate no.:
TAE00004ZN

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Electrical Equipment

with type designation(s)
Blue e+ SK 3184.837; Blue e+ SK 3185.837

issued to
Rittal GmbH & Co. KG
Herborn, Hessen, **Germany**

is found to comply with
DNV 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.

Issued at **Høvik** on **2025-01-13**
This Certificate is valid until **2030-01-12**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Thomas Hartmann**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Wall-mounted enclosure Cooling Unit: Blue e+ SK 3184.837; Blue e+ SK 3185.837

Blue e+ SK 3184.837			
Rated voltage U_N		230 440	V, 1~ V, 3~
Rated power P_N		0.7	kW
Rated frequency f		50/60	Hz
Cooling power DIN EN 14511	L35/L35 L35/L50	1 0,67	kW kW
Operating temperature range of Heat pipe		-20… 45	°C
Setting range		20… 50	°C

Blue e+ SK 3185.837			
Rated voltage U_N		230 440	V, 1~ V, 3~
Rated power P_N		0.7	kW
Rated frequency f		50/60	Hz
Cooling power DIN EN 14511	L35/L35 L35/L50	1,6 1,2	kW kW
Operating temperature range of Heat pipe		-20… 45	°C
Setting range		20… 50	°C

Application/Limitation

For installation onboard ships and offshore units. Installation conditions as per manufacture requirements to be observed.
Location Classes:

Temperature:	A
Humidity:	B
Vibration:	A
EMC:	A[1)]
Enclosure	IP24

[1)]Mains choke (Block, B2107051) to be installed in the supply line to the unit.
Data communication and remote access to the unit is subject to case-by-case approval.

Type Approval documentation

Tests carried out

60335-1 (Ed.5); 60335-2-40 (Ed.5); Applicable tests according to class guideline DNV-CG-0339, August 2021: Vibration, Dry heat, Cold, Damp heat, Inclination test, High voltage, Insulation resistance, EMC

Marking of product

Rittal - Type designation - Main data

Name and place of manufacture

Rittal RCS Cooling Solutions S.r.l.
Via degli Imprenditori, 15
37067 Valeggio sul Mincio (VR)
Italy

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