Certificate no.:
TAE0000501

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Surge Protection Device

with type designation(s)
VALVETRAB Safe Protection Plus

issued to
Phoenix Contact GmbH & Co. KG
Blomberg, Nordrhein-Westfalen, **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 **Hamburg** on **2025-02-06**
This Certificate is valid until **2030-02-05**.
DNV local unit: **Essen**

for **DNV**

Approval Engineer: **Harald Amberger**

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

Plug-in surge arrester, in accordance with Type 2/Class II, for power supply networks

Plug-in surge arrester Type designation		Network type	Nominal voltage Un	Max. continuous voltage Uc
VAL-SPP-T2-275-1+0-UT	AC, 1-pole	TN / TT	240V	275V
VAL-SPP-T2-335-1+0-UT	AC, 1-pole	TN / TT	240V	335V
VAL-SPP-T2-385-1+0-UT	AC, 1-pole	TN / TT	240V	385V
VAL-SPP-T2-440-1+0-UT	AC, 1-pole	TN / TT / IT	400/690V	440V
VAL-SPP-T2-750-1+0-UT	AC, 1-pole	TN / TT / IT	554/960V / 690V	760V
VAL-SPP-T2-NPE/40-0+1-UT	AC, 1-pole	TN / TT	240V	264V
VAL-SPP-T2-440NPE-0+1-UT	AC, 1-pole	TN / TT	400V	440V
VAL-SPP-T2-NPE-0+1-UT	AC, 1-pole	TN / TT	240V	305V
VAL-SPP-T2-350-1VF+0-UT	AC, 1-pole	TN / TT / IT	240V	350V
VAL-SPP-T2-275-1+1-UT	AC, 2-pole	TN-S / TT	240V	275V
VAL-SPP-T2-335-1+1-UT	AC, 2-pole	TN-S / TT	240V	335V
VAL-SPP-T2-385-1+1-UT	AC, 2-pole	TN-S / TT	240V	385V
VAL-SPP-T2-275-2+0-UT	AC, 2-pole	TN-C	240/415V	275V
VAL-SPP-T2-335-2+0-UT	AC, 2-pole	TN-C	240/415V	335V
VAL-SPP-T2-385-2+0-UT	AC, 2-pole	TN-C	240/415V	385V
VAL-SPP-T2-440-2+0-UT	AC, 2-pole	TN-C	400/690V	440V
VAL-SPP-T2-750-2+0-UT	AC, 2-pole	TN-C / IT	554/960V / 690V	760V
VAL-SPP-T2-275-2+1-UT	AC, 3-pole	TN-S / TT	240/415V	275V
VAL-SPP-T2-335-2+1-UT	AC, 3-pole	TN-S / TT	240/415V	335V
VAL-SPP-T2-385-2+1-UT	AC, 3-pole	TN-S / TT	240/415V	385V
VAL-SPP-T2-440-2+1-UT	AC, 3-pole	TN-S / TT	400/690V	440V
VAL-SPP-T2-750-2+1-UT	AC, 3-pole	TN-S / TT	554/960V	760V
VAL-SPP-T2-275-3+0-UT	AC, 3-pole	TN-C	240/415V	275V
VAL-SPP-T2-335-3+0-UT	AC, 3-pole	TN-C	240/415V	335V
VAL-SPP-T2-385-3+0-UT	AC, 3-pole	TN-C	240/415V	385V
VAL-SPP-T2-440-3+0-UT	AC, 3-pole	TN-C	400/690V	440V
VAL-SPP-T2-750-3+0-UT	AC, 3-pole	TN-C / IT	554/960V / 690V	760V
VAL-SPP-T2-440-3+0-VF-UT	AC, 3-pole	TN-C / IT	400/690V / 400V	440V
VAL-SPP-T2-440IT-3+0-UT	AC, 3-pole	IT	400V	440V
VAL-SPP-T2-800WE-3+0-VF-UT	AC, 3-pole	IT	800V	880V
VAL-SPP-T2-275-3+1-UT	AC, 4-pole	TN-S / TT	240/415V	275V
VAL-SPP-T2-275/40-3+1-UT	AC, 4-pole	TN-S / TT	240/415V	275V
VAL-SPP-T2-335-3+1-UT	AC, 4-pole	TN-S / TT	240/415V	335V
VAL-SPP-T2-385-3+1-UT	AC, 4-pole	TN-S / TT	240/415V	385V
VAL-SPP-T2-440-3+1-UT	AC, 4-pole	TN-S / TT	400/690V	440V

Surge arrester also available with “-R” remote indication contact.

Type 2 surge protection plug for VAL-SPP base element, thermally monitored, optical red/green status indicator.

Protection plug Type designation	Nominal voltage Un	Max. continuous voltage Uc	Voltage protection level Up	Mode of protection		
VAL-SPP-T2-275-P	240V	275V	≤ 1.35kV	L-N	L-PEN	
VAL-SPP-T2-335-P	240V	335V	≤ 1.5kV	L-N	L-PEN	
VAL-SPP-T2-750-P	554/960V / 690V	760V	≤ 3kV	L-PE	L-PEN	L-PE
VAL-SPP-T2-440-P	400/690V	440V	≤ 2.1kV	L-N	L-PE	L-PEN
VAL-SPP-T2-385-P	240V	385V	≤ 1.8kV	L-N	L-PEN	
VAL-SPP-T2-350VF-P	240V	350V	≤ 1.5kV	L-N	L-PEN	L-PE
VAL-SPP-T2-800WE-PE-P	800V	880V	≤ 4.5kV	L-PE		
VAL-SPP-T2-NPE/40-P	240V	264V	≤ 1.5kV	N-PE		
VAL-SPP-T2-NPE-P	240V	305V	≤ 1.5kV	N-PE		
VAL-SPP-T2-440-NPE-P	400V	440V	≤ 2.5kV	N-PE		

Nominal discharge current In (8/20) µs	20kA*
Maximum discharge current Imax (8/20) µs	40kA*
Short-circuit current rating I_{SCCR}	50kA / 25kA (VF articles)
*VAL-SPP-T2-NPE/40-P 40kA/80kA	

Base element for type 2 arresters VAL-SPP, Remote signaling module

Type designation	Base element for type 2 arresters VAL-SPP
VAL-SPP-T2-BE-1+0-UT	Version for 1-phase power supplies
VAL-SPP-T2-BE-1+1-UT	Version for 1-phase power supplies with separate cable routing of N and PE.
VAL-SPP-T2-BE-2+0-UT	Version for 2-phase power supplies with combined routing of N and PE in one conductor.
VAL-SPP-T2-BE-2+1-UT	Version for 2-phase power supplies with separate N and PE (4-conductor system L1, L2, N, PE
VAL-SPP-T2-BE-3+0-UT	Version for 3-phase power supplies with combined routing of PE and N in one conductor.
VAL-SPP-T2-BE-3+1-UT	Version for 3-phase power supplies with separate N and PE (5-conductor system: L1, L2, L3, N, PE)
VAL-SPP-T2-BE-3+0/4DU-UT	Version for 3-phase power supplies with PE (4-conductor system: L1, L2, L3, PE)
SPP-R-1, SPP-R-2, SPP-R-3, SPP-R-4	Remote signaling module for 1, 2, 3 and 4-pos. surge arresters and base elements

Application/Limitation

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

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 61643-11:2011, EN 61643-11:2012/A11:201, cold, dry heat, damp heat, vibration, flame retardancy

Marking of product

Phoenix Contact - Type designation - Main data.
All type designation may be followed by suffix such as color or packaging options.

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