

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Surge Protection Device**

with type designation(s)

PLT-SEC-T3-...-FM-UT, PLT-SEC-T3-...-FM-PT

Issued to

**Phoenix Contact GmbH & Co. KG
Blomberg, 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.**Issued at **Hamburg** on **2018-07-05**This Certificate is valid until **2023-07-04**.DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Harald Amberger**

**Arne Schaarmann
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.



Product description

Model:	Type 3 surge protection:
PLT-SEC-T3-...-FM-UT	device with screw connection and remote indication contact
PLT-SEC-T3-...-FM-PT	device with push-in connection and remote indication contact
PLT-SEC-T3-...-P-UT/PT	Replacement plug
PLT-SEC-T3-BE-FM-UT	base element with screw connection and remote indication contact
PLT-SEC-T3-BE-FM-PT	base element with push-in connection and remote indication contact

PLT-SEC-T3-...-FM-... is a combination of socket (-BE) and plug (-P)

Ratings:

Type : PLT-SEC-T3-...	...24-.	...60-.	...120-.	...230-FM-UT/PT
SPD type/class	3/III	3/III	2/II and 3/III	2/II and 3/III
Max. continuous operating voltage (U_c)	V 34	80	150	264
Open circuit voltage (U_{oc})	kV 2	4	6	6
Voltage protection level (U_p) L-N	kV 0,20	0,48	0,75 / 0,95*	1,25 / 1,40*
Voltage protection level (U_p) L/N-PE	kV 0,60	0,80	0,85 / 0,85*	1,40 / 1,40*
Rated load current (I_L) 30°C	26 A			
Short circuit current rating (I_{scrr})	10 kA			
Overcurrent protection	25 A gG, B, C (type-through wiring)			
	32 A gG, B, C (branch wiring)			

*for SPD type/class 2/II

Further ratings acc. Manufacturer documentation

Application/Limitation

Location Classes:

Temperature: B, Humidity: B, Vibration: B, Degree of protection: IP20

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 61643-11, Cold, dry heat, damp heat, vibration, flame retardancy.

Marking of product

Phoenix Contact - Type designation - Main data.



Job Id: **262.1-028511-1**
Certificate No: **TAE00002U7**

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