

# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



UL Recognized type 1 SPD and IEC type 2 surge protection plug with a gas discharge tube and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

## Product description

Surge protective device replacement plug

## Your advantages

- Thermal disconnect device for each individual plug
- Optical, mechanical status indication for the individual arresters
- Mechanical coding of all slots
- Consists of base element and plug
- Pluggable

## Commercial data

Item number	2910342
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4055626444840
Weight per piece (including packing)	42.5 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85363030
Country of origin	DE

# GDT-US-NG/40-P - Type 1 surge protection plug

2910342

<https://www.phoenixcontact.com/us/products/2910342>

## Technical data

### Notes

General	Used in:
---------	----------

### Product properties

Product type	Replacement plug
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
Type	Male
Number of positions	1
Surge protection fault message	optical

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

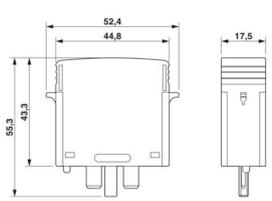
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
-------------------------	---------------

### Connection data

Connection method	VALVETRAB plug-in system
-------------------	--------------------------

### Dimensions

Dimensional drawing	
Width	17.5 mm
Height	52.4 mm
Depth	55.3 mm
Horizontal pitch	1 Div.

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PA 6.6

# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

PBT

## Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage $U_N$	277/480 V AC (TN-S) 277/480 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	305 V AC
Protective conductor current $I_{PE}$	$\leq 5 \mu\text{A}$
Standby power consumption $P_C$	$\leq 1.5 \text{ mVA}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	40 kA
Follow current interrupt rating $I_{fi}$	100 A
Voltage protection level $U_p$	$\leq 1.5 \text{ kV}$
Residual voltage $U_{res}$	$\leq 0.4 \text{ kV}$ (at $I_n$ ) $\leq 0.25 \text{ kV}$ (at 10 kA) $\leq 0.15 \text{ kV}$ (at 5 kA) $\leq 0.1 \text{ kV}$ (at 3 kA)
Impulse sparkover voltage at 6 kV (1.2/50) $\mu\text{s}$	$\leq 1.5 \text{ kV}$
TOV behavior at $U_T$	1200 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100 \text{ ns}$

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x $\pm X$ , $\pm Y$ , $\pm Z$ )
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV	305 V AC
Voltage protection rating VPR	1200 V
UL type	type 1
Nominal discharge current $I_n$	20 kA
Maximum Surge Current per Phase	40 kA
Mode of protection	N-G
Nominal voltage	277 V AC
Power distribution system	Single phase

# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

Nominal frequency	50/60 Hz
SPD Type	1CA

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	on base element
---------------	-----------------

# GDT-US-NG/40-P - Type 1 surge protection plug

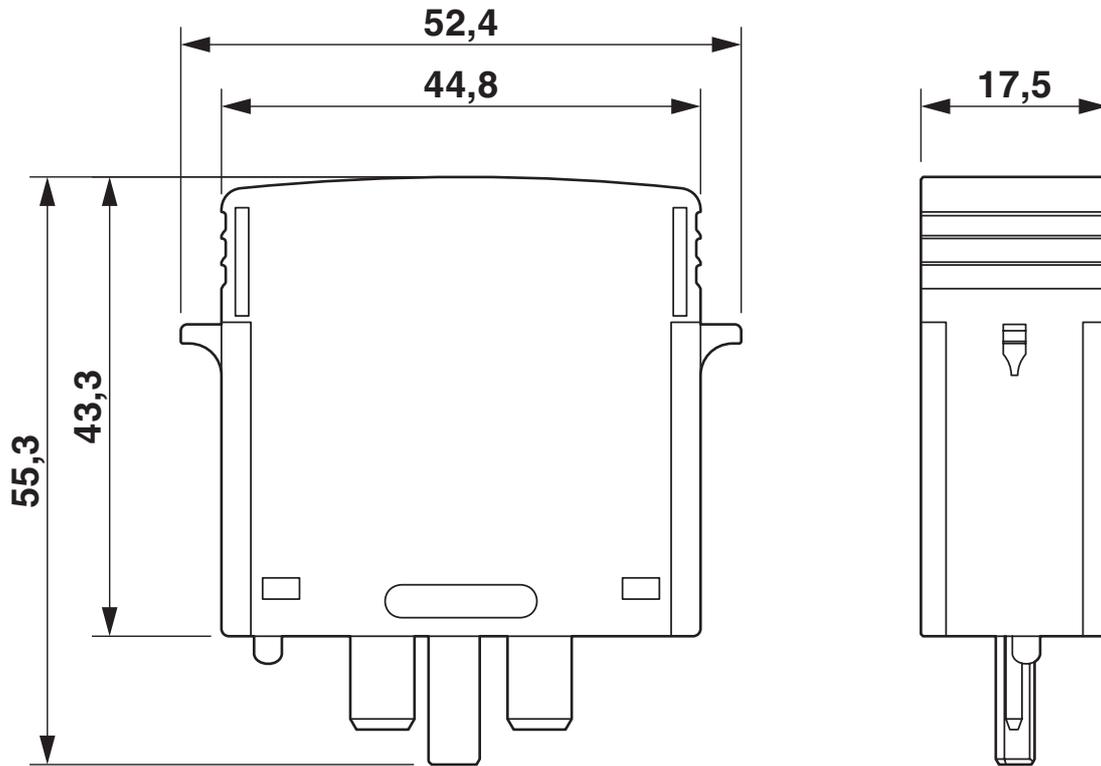
2910342

<https://www.phoenixcontact.com/us/products/2910342>



## Drawings

Dimensional drawing



Circuit diagram



# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2910342>



**KEMA-KEUR**

Approval ID: 71-148002



**cUL Recognized**

Approval ID: FILE E 330181



**UL Recognized**

Approval ID: FILE E 330181

# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

## Classifications

### ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

### ETIM

ETIM 9.0	EC002496
----------	----------

### UNSPSC

UNSPSC 21.0	39121600
-------------	----------

# GDT-US-NG/40-P - Type 1 surge protection plug



2910342

<https://www.phoenixcontact.com/us/products/2910342>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)