

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



2910342

<https://www.phoenixcontact.com/nl/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	CL1321
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/nl/products/2910342>

Technical data

Notes

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

Product properties

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

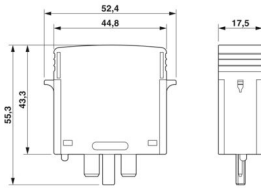
Electrical properties

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
	PBT

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



2910342

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

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}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 1.5 \text{ mVA}$
Nominal discharge current I_n (8/20) μs	20 kA
Maximum discharge current I_{max} (8/20) μs	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)
Front-of-wave sparkover voltage at 6 kV (1.2/50) μs	$\leq 1.5 \text{ kV}$
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
Nominal frequency	50/60 Hz

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



2910342

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

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
---------------	-----------------

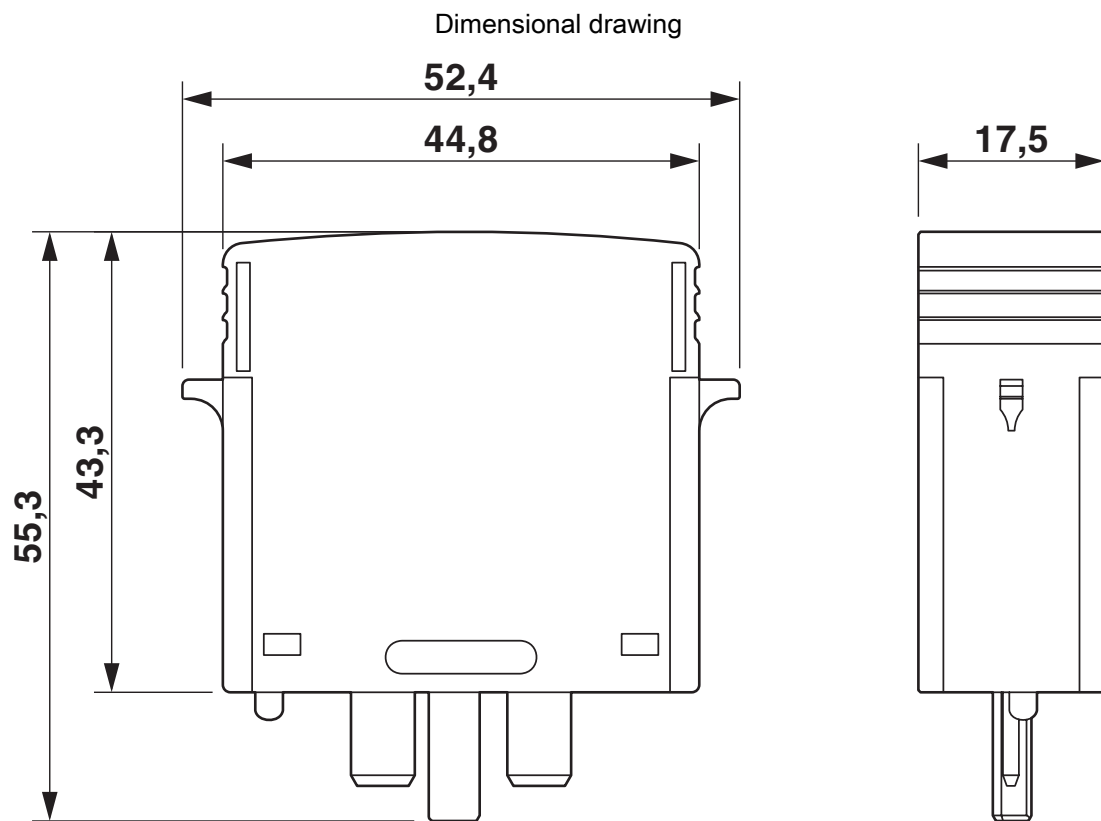
GDT-US-NG/40-P - Type 1 surge protection plug

2910342

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



Drawings



Circuit diagram



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



2910342

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

Approvals

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

Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496
-----------	----------

UNSPSC

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

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



2910342

<https://www.phoenixcontact.com/nl/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 2026 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.
Hengelder 56 6902 PA Zevenaar
Postbus 246 6900 AE Zevenaar
(0316) 59 17 20
sales@phoenixcontact.nl