chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

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
- Pluggable
- Mechanical coding of all slots
- Consists of base element and plug

Commercial data

Item number	2910332
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1151
Product key	CL1151
Catalog page	Page 93 (C-4-2019)
GTIN	4055626445328
Weight per piece (including packing)	78.2 g
Weight per piece (excluding packing)	36 g
Customs tariff number	85363030
Country of origin	DE

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

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

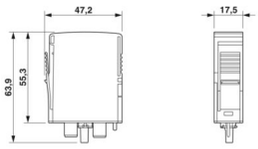
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	VALVETRAB plug-in system

Dimensions

Dimensional drawing	
Width	17.7 mm
Height	47 mm
Depth	67.3 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

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U_N	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Residual current I_{PE}	≤ 5 µA
Standby power consumption P_C	≤ 1.30 mVA
Nominal discharge current I_n (8/20) µs	50 kA
Maximum discharge current I_{max} (8/20) µs	50 kA
Follow current interrupt rating I_{fi}	100 A (260 V)
Voltage protection level U_p	≤ 1.7 kV
Residual voltage U_{res}	≤ 0.6 kV (at I_n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.4 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.7 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 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	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV	264 V AC
Voltage protection rating VPR	1200 V
UL type	type 1
Nominal discharge current I_n	20 kA
Maximum Surge Current per Phase	80 kA
Mode of protection	N-G
Nominal voltage	240 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

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

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

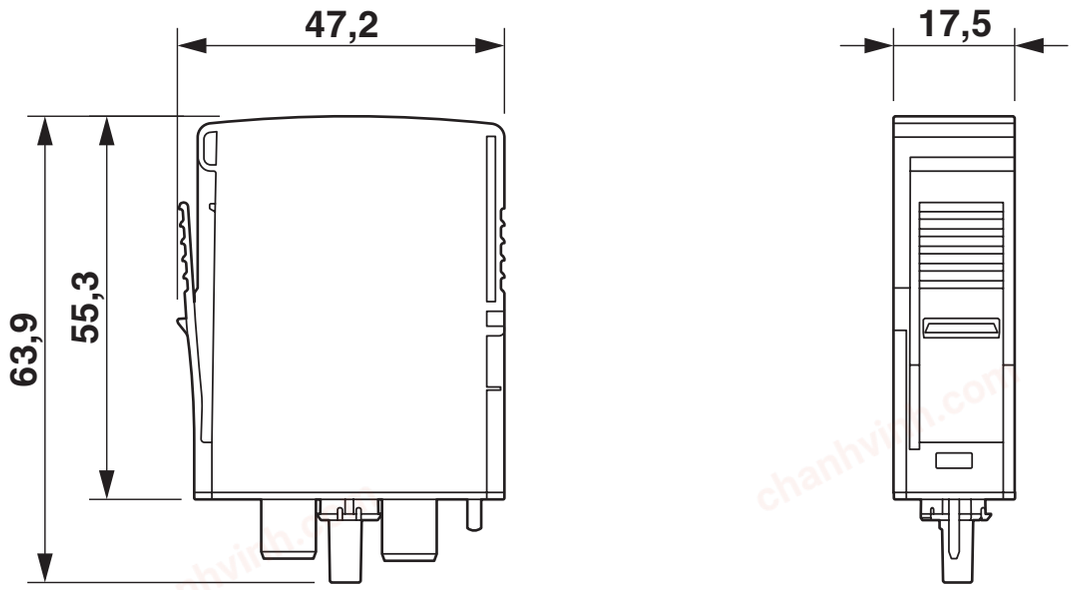
https://www.phoenixcontact.com/gb/products/2910332

Drawings

Circuit diagram



Dimensional drawing



chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2910332

cUL Recognized
Approval ID: FILE E 330181

UL Recognized
Approval ID: FILE E 330181

cULus Recognized

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

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%

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

Accessories

VAL-US-120/65/1+1-FM - Type 1 surge protection device

2910356

https://www.phoenixcontact.com/gb/products/2910356



Surge protective device, two channel with remote indicator contact for 120 V AC, 2-wire plus ground.

VAL-US-120/65/2+1-FM - Type 1 surge protection device

2910358

https://www.phoenixcontact.com/gb/products/2910358



Surge protective device, three channel with remote indicator contact for 120/240 V split phase AC, 3-wire plus ground.

chanhvinh.com

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

https://www.phoenixcontact.com/gb/products/2910332

VAL-US-120/65/3+1-FM - Type 1 surge protection device

2910360

https://www.phoenixcontact.com/gb/products/2910360



Surge protective device, four channel with remote indicator contact for 120/208 V Wye three phase AC, 4-wire plus ground.

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk