

2920120

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Surge protection plug with integrated diagnostic and status indicator on the module and remote indication contact for two signal wires with common reference potential. Nominal voltage: 24 V DC

Your advantages

- · Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- · Maximum ease of maintenance, thanks to the 2-piece design
- · Easy selection for all possible demands in MCR applications with a complete product portfolio
- · The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs
- Permanent protective device monitoring with optical signaling via LED

Commercial data

Item number	2920120
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2112
Product key	CL2112
Catalog page	Page 91 (TT-2011)
GTIN	4046356154079
Weight per piece (including packing)	29.89 g
Weight per piece (excluding packing)	27.903 g
Customs tariff number	85363010
Country of origin	DE



2920120

https://www.phoenixcontact.com/au/products/2920120

Technical data

Product properties

Product type	Surge protection for MCR technology
Product family	PLUGTRAB PT
IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Туре	Male
Surge protection fault message	Optical, remote indicator contact

Electrical properties

Nominal voltage U _N	24 V DC	
Indicator/remote signaling		
Switching function	N/C contact	
Maximum operating voltage U _{max.} AC	250 V AC	
Max. operating current I _{max}	0.2 A (250 V AC)	
	0.2 A (220 V DC)	
	1 A (60 V AC)	
	1 A (60 V DC)	

Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Dimensions





2920120

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Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No
Open side panel	NO

Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U _C	28 V DC
· · · ·	20 V AC
Rated current	300 mA (45 °C)
Operating effective current I _C at U _C	≤ 5 µA
Standby power consumption P _C	≤ 1.73 VA
Protective conductor current I _{PE}	≤ 1 µA (with PT 2X1+F-BE)
	≤ 10 µA (Directly grounded)
Nominal discharge current I _n (8/20) µs (line-ground)	10 kA
Pulse discharge current I _{imp} (10/350) µs	2.5 kA (per path)
Total discharge current I _{Total} (8/20) µs	20 kA
Max. discharge current I _{max} (8/20) µs maximum (line-earth)	10 kA
Nominal pulse current lan (10/1000) µs (line-earth)	33 A (25 °C)
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 50 V
	≤ 600 V (with PT 2X1+F-BE)
Output voltage limitation at 1 kV/µs (line-signal ground) spike	≤ 50 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 40 V
Output voltage limitation at 1 kV/µs (line-signal ground) static	≤ 40 V
Residual voltage at I _n (conductor-ground)	≤ 40 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 50 V
Voltage protection level U _p (line-earth)	≤ 40 V (C1 - 500 V / 250 A)
	≤ 40 V (C3 - 25 A)
oltage protection level U _p (line-signal ground)	≤ 40 V (C1 - 500 V / 250 A)
	≤ 40 V (C3 - 25 A)
Response time t _A (line-earth)	≤ 1 ns
out attenuation aE, asym.	typ. 0.5 dB (\leq 1 MHz / 50 Ω)
	typ. 0.2 dB (≤ 400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (siganl ground) in 50 Ω system	typ. 6 MHz



2920120

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Cut-off frequency fg (3 dB), asym. (signal ground) in 150 Ω system	typ. 2.5 MHz
Resistance per path	4.7 Ω (7-8/11-12)
Surge protection fault message	Optical, remote indicator contact
Max. required back-up fuse	315 mA (T)
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA
	C3 - 25 A
Alternating current carrying capacity (line-earth)	5 A - 1 s
Environmental and real-life conditions Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C
Standards and regulations	
VDF requirement class	C1

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Standards/specifications

VDE requirement class	C1	
	C2	
	C3	
	D1	
Air clearances and creepage distances		
Standards/regulations	VDE 0110-1 / IEC 60664-1	
Standards Information technology specification		
Standards/regulations	IEC 61643-21	
	DIN EN 61643-21	
	IEC 61643-21	

DIN EN 61643-21 IEC 61643-21

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Mounting

Note

	Mounting type	on base element

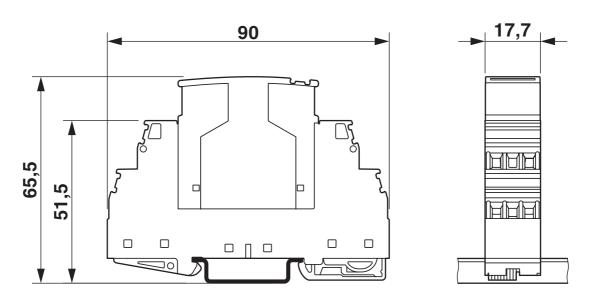


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Drawings

Dimensional drawing



The figure shows the complete module consisting of a base element and connector

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Circuit diagram DC 1 The property of the pro



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2920120



EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: RU C-DE.*09.B.00169



UL Listed

Approval ID: FILE E 138168



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Classifications

UNSPSC 21.0

	ECLASS-13.0	27171501
ETIM		
	ETIM 9.0	EC000943
UNSPSC		

39121600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	3dc0865d-3ab8-44b9-8783-b7eb453b51ec

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