

VP

Surge Protection Device



Design Features

VOZWEI



- Combined Type 1+Type 2(T1+T2) SPD
- Built-in over-temperature and over-current protection
- Pluggable module design
- Status indication and remote alarm
- High discharge capacity and low let-through voltage
- High reliability and safety

Ambient conditions

Operating ambient temperature

- Operating environment temperature: -40°C~+80°C

Relative humidity

- Relative humidity $\leq 95\%$ (25°C)

Altitude conditions

- Altitude of installation site $\leq 3000\text{m}$

Protection class

- Product protection class: IP20

Environmental requirements

- The product meets RoHS standards

Selection Guide

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Parameter	Model	VPD1500-40/3P(T1+T2)
SPD according to EN 50539-11/IEC 61643-31		Type1+Type 2 (T1+T2)
Protection mode		+/-, +/PE, -/PE
Nominal operating voltage U_n		DC1250V
Max. continuous operating voltage U_{cpv}		DC1500V
Impulse current $I_{imp}(10/350\mu s)$		6.25kA
Nominal discharge current $I_n(8/20\mu s)$		20kA
Max. discharge current $I_{max}(8/20\mu s)$		40kA
Voltage protection level U_p		$\leq 5.0kV$
Rated short-circuit current I_{scpv}		1000A
Response time		$\leq 25ns$
Max. backup fuse		250A gL/gG
Cross-sectional area		6~25mm ²
Leakage current		$\leq 20\mu A$
Tightening torque		3N · m
Failure indicator		The lightning protection module has an indication window, which turns red in the fault state
Remote signaling mode		RSC: Remote signal contact, NC-COM-NO contact
Performances of remote signal contact		AC: 250V/0.5A; DC:250V/0.1A, 125V/0.2A, 75V/0.5A
Remote cross-sectional area		Max. 1.5mm ²
Installation method		35mm DIN rail
Housing material		UL94-V0
Protection class		IP20
Outline dimensions(without terminal)		90mm × 54mm × 80.5mm
Operating temperature		-40°C~+70°C
Relative humidity		$\leq 95\%(25^\circ C)$
Operating altitude		$\leq 2000m$

Selection Guide

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Parameter	Model	VPH888-12.5/3P+1P (T1+T2)
SPD according to EN/IEC 61643-11		Type1+Type 2 (T1+T2)
Network		IT-TN
Application		L-PE
Max. continuous operating voltage U_c		AC880V, 50Hz/60Hz
Impulse current $I_{imp}(10/350\mu s)$		12.5kA
Nominal discharge current $I_n(8/20\mu s)$		20kA
Max. discharge current $I_{max}(8/20\mu s)$		80kA
Voltage protection level U_p		$\leq 3.4kV$
Internal protective devices		Built-in thermal tripping device
Max. backup fuse		250A gL/gG
Short-circuit withstand capability		25kArms
Response time		$\leq 25ns$
Cross-sectional area		6~35mm ²
Stripping length terminals		12.5mm
Tightening torque		3N·m
Failure indicator		The lightning protection module has an indication window, which turns red in the fault state
Remote signaling mode		RSC: Remote signal contact, NC-COM-NO contact
Performances of remote signal contact		AC: 250V/0.5A; DC:250V/0.1A, 125V/0.2A, 75V/0.5A
Remote cross-sectional area		Max. 1.5mm ²
Installation method		35mm DIN rail
Housing material		PBT UL94-V0
Protection class		IP20
Operating temperature		-40°C~+80°C
Relative humidity		$\leq 95\%$ (25°C)
Operating altitude		$\leq 3000m$
Electric clearance required by EN 60664-1:2003		$\geq 6mm$
Outline dimensions(without terminal)		90mm × 72mm × 77mm
Module pluggable		Pluggable module

Selection Guide

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Parameter	Model	VPM1000-50/3N+NPG (T1+T2)
SPD according to EN/IEC 61643-11		Type 1+Type 2(T1+T2)
Protection mode		3+1 mode
Nominal operating voltage U_n		AC800V, 50/60Hz
Max. continuous operating voltage U_c		L-N: AC1000V; N-PE: AC255V
Impulse current I_{imp} (10/350 μ s)		12.5kA
Nominal discharge current I_n (8/20 μ s)		25kA
Max. discharge current I_{max} (8/20 μ s)		50kA
Voltage protection level U_p		L-N $\leq$ 5.0kV; N-PE $\leq$ 2.0kV; L-PE $\leq$ 7.0kV
Leakage current		$\leq$ 20 μ A
Response time		L-N $\leq$ 25ns; N-PE $\leq$ 100ns
Max. backup fuse		80A gL/gG
Cross-sectional area		6~35mm ²
Stripping length terminals		12.5mm
Tightening torque		3N·m
Failure indicator		The lightning protection module has an indication window, which turns red in the fault state
Remote signaling mode		RSC: Remote signal contact, NC-COM-NO contact
Performances of remote signal contact		AC: 250V/0.5A; DC:250V/0.1A, 125V/0.2A, 75V/0.5A
Remote cross-sectional area		Max. 1.5mm ²
Installation method		35mm DIN rail
Housing material		PA66 UL94-V0
Protection class		IP20
Operating temperature		-40°C~+70°C
Relative humidity		$\leq$ 95%(25°C)
Operating altitude		$\leq$ 3000m
Outline dimensions(without terminal)		92mm × 90mm × 85.4mm

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