

Protection solutions Series 5000 and 5000compact, 10-Pairs protection magazines Protection solutions Series 5000 and 5000compact, 10-Pairs protection magazines

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Part Number: **S30264-D1008-S280**

Protection magazines offer optimum primary protection against overvoltage and overcurrent disturbances. The surge arresters limit overvoltage quickly and safely to uncritical levels and reliably discharge the resulting dangerous currents.

The 3-Point protection magazines (against overvoltages) are fitted with 3-electrode arresters. In case of overvoltage, an arc is generated in the arrester, which discharges the energy towards the ground potential. This arc is broken when the voltage falls below the nominal response direct voltage of the arrester.

The 5-Point protection magazines (for both overvoltage and overcurrent protection) are fitted with 3-electrode arresters and PTCs, i.e. Positive Temperature Coefficient. When the nominal current of the PTC is exceeded, the component heats up and the resistance increases exponentially. The PTC therefore limits the current, cools down in accordance with the load and then returns to its original state.

This reversible procedure can be repeated a number of times if necessary, for both types of magazines.

Features and Benefits

Installation of the protection magazine from the rear side free access for measuring and testing operations from the front side

Optional Positive Temperature Coefficients (PTC) limits overcurrent by increasing the resistance of the protection magazine, thus transforming electric energy into heat energy and therefore restoring the current.

PCB board installed

that offers higher flexibility for customized solutions

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Specifications

Electrical Characteristics

Capacitance	< 5 pF (1 MHz, 1 V _{signal} , a or b to ground)
Dielectric Strength of PCB (50Hz, a to b)	≥ 2 kVrms
High current capability (230Vrms, 15 min, a & b to ground simult.)	≤ 11.5 Arms (23 Arms total)
Impulse sparkover voltage (100V/μs, a or b to ground, initial)	600 V
Insulation resistance of GDT (100 VDC, a or b to ground)	1 GΩ
Insulation resistance of PCB (100 VDC, a to b)	10 GΩ
Nom. alternating discharge current (50Hz, 1s, a & b to ground simult.)	5 Arms (10 Arms total)
Nom. impulse discharge current (8/20μs, a & b to ground simult., w/ o damage)	5 kA (10 kA total)
Nom. impulse discharge current of GDT (8/20μs, a & b to ground simult.)	5 kA (10 kA total)
Nominal current PTC	145 mA
Nominal DC sparkover voltage (100V/s, a or b to ground, a to b, initial)	230 %
Nominal discharge current	10 kA
Nominal Voltage	230 V
Surge voltage	≥ 4 kV

Environmental Conditions

Temperature Range, Operation	-20 °C - 60 °C (-4 °F - 140 °F)
Temperature Range, Storage	-40 °C - 80 °C (-40 °F - 176 °F)

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Ordering Information

Units per Delivery

10/1



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