HYBRID SURGE DIVERTER, SINGLE PHASE

Product Description

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Novaris hybrid surge diverters are designed to protect electrical equipment against direct and induced transient overvoltages caused by lightning and temporary overvoltage on AC power supply circuits.

Novaris surge diverters suit TN-C, TN-S, TN-C-S (MEN), TT and IT distribution systems. They provide all mode protection against transient overvoltages between phase and neutral, phase and earth and neutral and earth.

Novaris surge diverters comply with all major lightning protection standards and are configured in accordance with IEC recommendations.



Operation

These surge diverters feature all mode transient protection. Spark gap series with metal oxide varistor is connected between line and neutral. This component continuously monitored for integrity for both overcurrent and over temperature with status display via a built in LED indicator. The 8/20µs rating for this component is 250kA. There is no follow on current.

In accordance with IEC61643-11 recommendations (and IEC62305-4) all mode protection is achieved by the addition of fast acting gas discharge tube connected from neutral to earth. This GDT is rated at 100kA for an $8/20\mu$ s impulse (option).

All Novaris power line surge arresters are housed in rugged and safe metal cases and are easily replaced should this be required. Plastic enclosures are not recommended. In addition to the LED alarm indicator on each module an external alarm is generated which allows for remote monitoring. This is provided by a clean contact either normally closed or normally open.

An optional surge counter is available. This provides a count of surges diverted and has a sensitivity of 150A for an $8/20\mu$ s impulse.

The HSGx-25-275 is designed for AC shunt diverter connection inside switchboards. Just like any other load it should be protected with an upstream over current protection device. A 63A HRC fuse or 32A circuit breaker is recommended.



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Technical Information Sheet HSG1-25-275

Specifications

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Description: Protection Mode: Configuration: Model: Nominal Voltage: U_o Max.discharge current: Max.continuous voltage: Response time: t_A Lightning impulse voltage sparkover : Up Let through voltage: Specific energy: Charge: Indicator: External alarm: Alarm isolation: Backup fuse: Operating Temperature: Terminal capacity-power: Screw torque – power: Terminal capacity – alarm: Screw torque - alarm: Dimensions: Weight: Environmental Rating: Enclosure/Colour: Mounting: Standards Compliance:

Power Line hybrid spark gap surge diverter Line-Neutral Voltage switching (Spark gap)series voltage limiting (MOV) HSG1-25-275 220-240VAC / 50Hz 250kA, 8/20µs I_{max} 480VAC/ 50Hz Uc <100ns <1.1kV at 1.2/50µs as IEC61643-1 <1.0kV at 3kA,8/20µs & 6kV,1.2/50µs as IEEE C62.41 W/R 625kJ/Ω 12.5As Q Internal LED Clean SPDT contact 4kV 63A HRC fuse -40 to +85 degC, 0 - 95% RH 16 mm^2 1.0 Nm 2.5 mm^2 0.5 Nm 200H x 60W x 70D 1.2kg IP20 Metal / Black Panal mount /TS35 DIN rail IEC61643-1 Class I ,IEC61643-11 IEC62305 IEC1000-4-5 AS/NZS1768-2007 IEEE C62.41 category C UL1449 fourth edition



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