

Protection Relay

SGV Controller SGV-1

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Surge, Ground Lift and Voltage protection Relay - 1 Phase

• Features:

- Protection against Overvoltage, Undervoltage, Surge, Ground Lift
- Surge : Max. discharge current 20kA, 8/20uS
- Fast response time (Less than 25ns) for Surge protection
- Fast response time (Less than 100ms) for voltage protection
- User friendly LED indications
- Fixed tripping for Under voltage / Over voltage
- High reliability



SPECIFICATION

Input	Nominal Voltage	240 VAC (withstand 500 VAC L to N)
	Frequency	45 ~ 65 Hz
Output	Relay Contact	1 C/O
	Contact Rating	5A / 250VAC (Resistive)
	Electrical Life	1 X 10 ⁵ Operations at Rated Resistive Load
Voltage & Ground Lift Protection Trip settings	Ground Lift	Yes
	Under Voltage	165VAC +/-2% Voltage setting with respect to neutral
	Over Voltage	275VAC +/-2% Voltage setting with respect to neutral
	Trip Response Time	<100 ms (for UV & OV)
	Reset Mode	Auto
	Hysteresis	5 to 10VAC for UV & OV
Indication	Power on delay	6 to 10 s cs.
	LED Indication	Indications for UV/OV OK, GND OK, SPD OK, RLY ON
Surge Protection	Maximum Continuous Operating Voltage U _c	320VAC (L-PE) 510VAC (L-N)
	Nominal Discharge Current I _n (8/20) uS	10kA
	Maximum Discharge Current I _{max} (8/20) uS	20kA
	Voltage Protection Level Up	<1.5kV
	Residual Voltage U _{res}	L1 - PE <1.2kV (at I _n) N - PE <1.2kV (at I _n)
Environment	Working Temp.	-5D gC to 70D gC.
	Working Humidity	20 to 90%RH Non Condensing.
	Storage Temp Humidity	-10 to 85D gC 10 to 95% RH.
EMI & EMC	Harmonic Current Emission	Design d to m t IEC 61000-3-2
	ESD	Design d to m t IEC 61000-4-2
	Radiated Susceptibility	Design d to m t IEC 61000-4-3
	Electrical Fast Transients	Design d to m t IEC 61000-4-4
	Surges	Design d to m t IEC 61000-4-5
	Conducted Susceptibility	Design d to m t IEC 61000-4-6
	Voltage Dips & Interruptions (AC)	Design d to m t IEC 61000-4-11
	Conducted Emission	Design d to m t CISPR 14-1
Other	Radiated Emission	Design d to m t CISPR 14-1
	Enclosure Protection	IP-20
	Connectivity	Screw Type Terminal
	Dimension (In mm)	107.5*70*75 (L*W*H)
Note	Mounting	DIN RAIL EN50022
	1. Residual Voltage U _{res} : UL1449 Maximum limiting voltage; the highest value of residual voltage maximum during the application of impulses of 8/20uS nominal discharge current (I _n); an average voltage value of 15 impulses. 2. Voltage Protection Level Up: IEC61643-11 Voltage protection level; the highest value of residual voltage maximum during the application of impulses of 8/20uS nominal discharge current (I _n); a rounding voltage value of maximum maximum. 3. Maximum Continuous Operating Voltage U _c : Maximum r.m.s. voltage that could be continuously applied to the SPD. 4. The Under voltage cut-off and Over voltage cut-off setting can be available as per the customer requirement. 5. Specifications are subject to change without prior notice due to constant improvement in design & technology.	

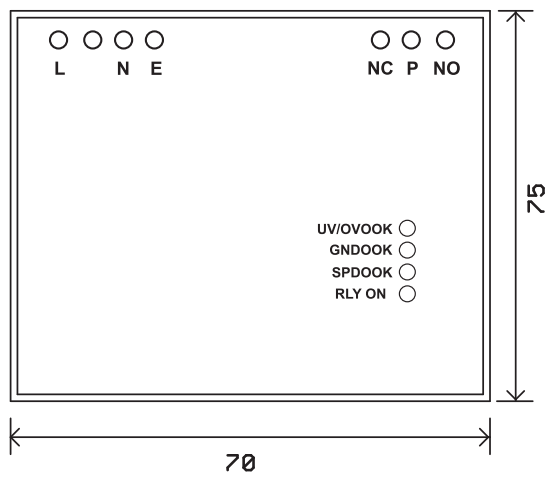
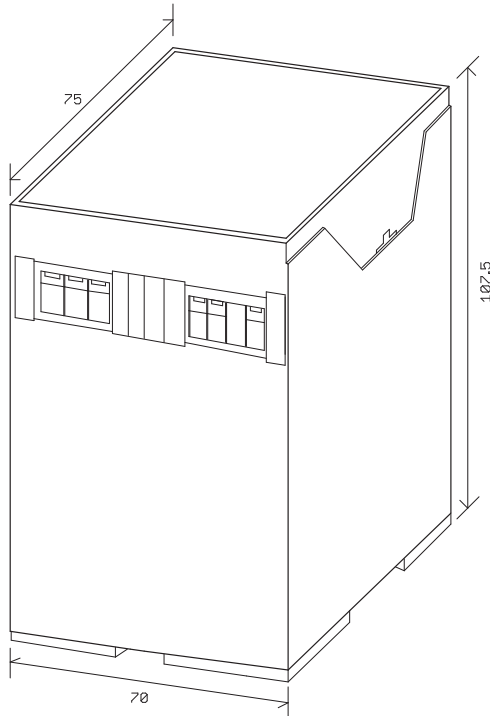
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DIMENSIONAL DETAILS



NOTE: ALL DIMENSIONS ARE IN MM

SMPS | DC DC Converters | Adapters | PoE Injectors & Splitters | Battery chargers | Battery Backup Systems
 LED Drivers | VP | AVR | Relay I/ Modules | Protection Relays | Surge Protectors | Inverters | Fan Controllers