

## Protection Relay

### SGV Controller SGV-3

Nuteck Power Solutions P Ltd.  
 1st Floor, 115/5, Ramtekdi Industrial Area,  
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## Surge, Ground Lift and Voltage protection Relay- 3 Phase

### • Features:

- Protection against Phase loss, Under/ Over voltage, Neutral Loss, Surge, Ground Lift.
- Surge: Max. discharge current 40kA, 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 trip setting for Under voltage / Over voltage
- High reliability



### SPECIFICATION

Input	Nominal Voltage	240 / 415 VAC ( TN /TT )	
	Frequency	45 ~ 65 Hz	
Output	Relay Contact	1 C/O	
	Contact Rating	5A / 250VAC ( Resistive )	
	Electrical Life	1 X 10 <sup>5</sup> Operations at Rated Resistive Load	
Voltage & Ground Lift Protection Trip settings	Phase Loss	Yes	
	Neutral Loss	Yes	
	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 msec ( for UV & OV)	
	Reset Mode	Auto	
	Hysteresis	5 to 10VAC for UV & OV	
Indication	Power on delay	6 to 10 secs.	
	LED Indication	Indications for PH OK, RLY ON, OVR OK, GLP OK, MAINS ON	
Surge Protection	Maximum Continuous Operating Voltage Uc	320VAC ( L-PE ) 640VAC ( L-L )	
	Nominal Discharge Current In ( 8/20 ) uS	20kA	
	Maximum Discharge Current I <sub>max</sub> (8/20 ) uS	40kA	
	Voltage Protection Level Up	<1.5kV	
	Residual Voltage U <sub>res</sub>	L1 - PE	<1.2kV (at In )
		L2 - PE	<1.2kV (at In )
L3 - PE		<1.2kV (at In )	
N - PE		<1.2kV (at In )	
Environment	Working Temp.	-5DegC to 70DegC.	
	Working Humidity	20 to 90%RH Non Condensing.	
	Storage Temp Humidity	-10 to 85DegC 10 to 95% RH.	
EMI & EMC	Harmonic Current Emission	Designed to meet IEC 61000-3-2	
	ESD	Designed to meet IEC 61000-4-2	
	Radiated Susceptibility	Designed to meet IEC 61000-4-3	
	Electrical Fast Transients	Designed to meet IEC 61000-4-4	
	Surges	Designed to meet IEC 61000-4-5	
	Conducted Susceptibility	Designed to meet IEC 61000-4-6	
	Voltage Dips & Interruptions (AC)	Designed to meet IEC 61000-4-11	
	Conducted Emission	Designed to meet CISPR 14-1	
	Radiated Emission	Designed to meet CISPR 14-1	
Other	Enclosure Protection	IP-20	
	Connectivity	Screw Type Terminal	
	Dimension (In mm)	107.5*100*75 (L*W*H)	
	Mounting	DIN RAIL EN50022	
Note	1. Residual Voltage V <sub>res</sub> : UL1449 Measured limiting voltage; the highest value of residual voltage measurement during the application of impulses of 8/20uS nominal discharge current (In); an average voltage value of 15 impulses. 2. Voltage Protection Level Up: IEC61643-11 Voltage protection level; the highest value of residual voltage measurement during the application of impulses of 8/20uS nominal discharge current (In); a rounding voltage value of maximum measurement. 3. Maximum Continuous Operating Voltage Uc: Maximum r.m.s. voltage that could be continuously applied to the SGV. 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.		

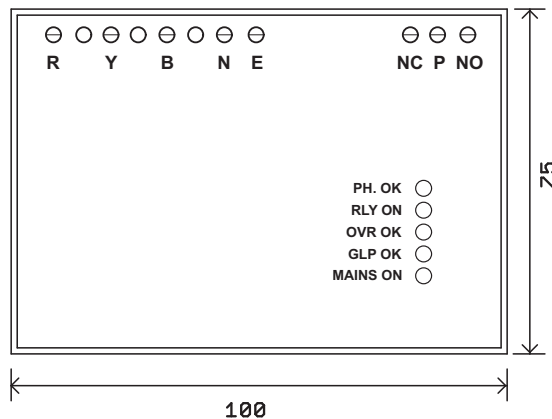
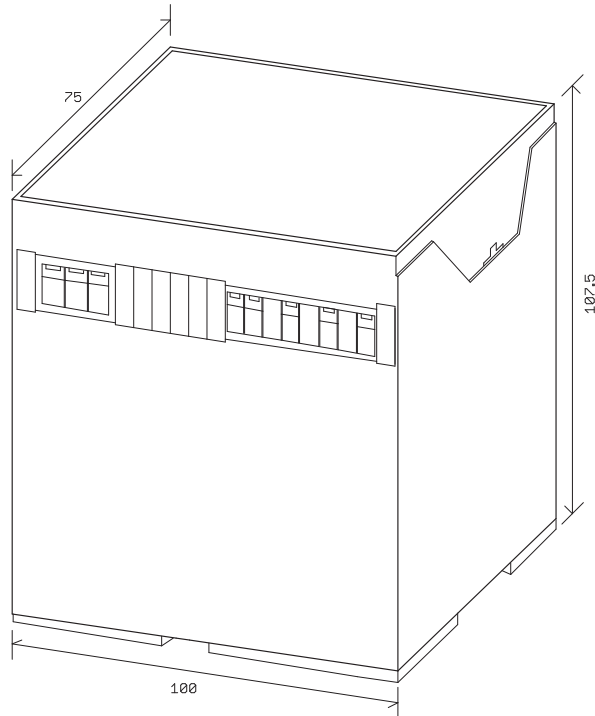
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### DIMENSIONAL DETAILS



NOTE : ALL DIMENSIONS ARE IN MM

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