

Protection Relay

SGV Controller SGV-3

Nuteck Power Solutions P Ltd.
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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 ⁵ 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 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 PH OK, RLY ON, OVR OK, GLP OK, MAINS ON	
Surge Protection	Maximum Continuous Operating Voltage U _c	320VAC (L-PE) 640VAC (L-L)	
	Nominal Discharge Current I _n (8/20) uS	20kA	
	Maximum Discharge Current I _{max} (8/20) uS	40kA	
	Voltage Protection Level Up	<1.5kV	
	Residual Voltage U _{res}	L1 - PE	<1.2kV (at I _n)
		L2 - PE	<1.2kV (at I _n)
L3 - 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 Cond nsing.	
	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	
	Radiated Emission	Design d to m t CISPR 14-1	
Other	Enclosure Protection	IP-20	
	Connectivity	Scr w Typ Terminal	
	Dimension (In mm)	107.5*100*75 (L*W*H)	
	Mounting	DIN RAIL EN50022	
Note	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 limiting voltage value of maximum maximum. 3. Maximum Continuous Operating Voltage U _c : 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.		

DATASHEET

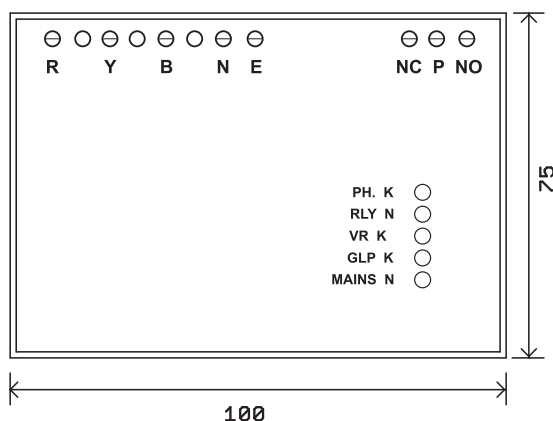
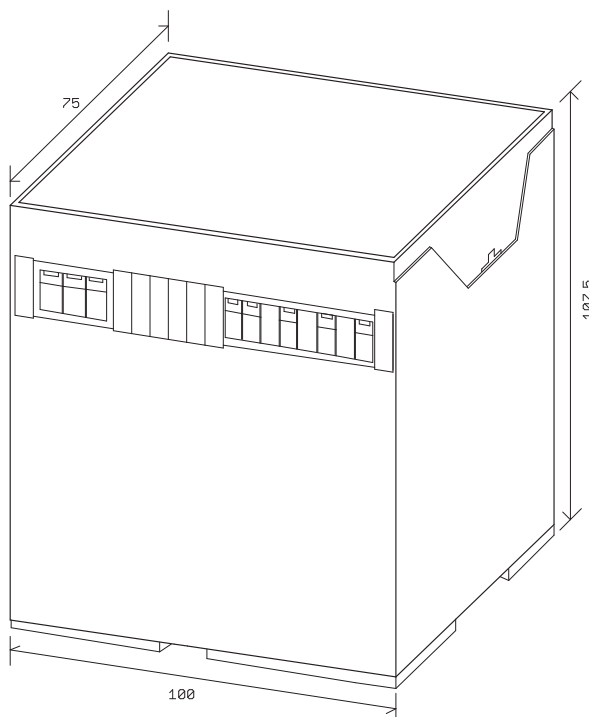
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DIMENSIONAL DETAILS



NOTE: ALL DIMENSIONS ARE IN MM

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