



# SHOGUN

## SG-KM50C

### Power Line Surge Suppression (L-N)



#### DESCRIPTION

**Shogun's** series of power line surge suppression products (SG-KM50C models) have been specially developed to match the protection requirement of surge protection on AC line low voltage application according to the recommendation of various standards such as IEC, UL etc. SG-KM50C models are available for both shunt protection and series protection with high capability in suppressing both short duration (impulse voltage limiting) and long duration surge that could occur in power lines.

SG-KM50C models use the high energy handling Transient Voltage Surge Suppression (TVSS) device which offers greater protection capability, higher surge rating, faster response time, and longer operational life. Models available for single phase and three phase systems and level of protection by means of surge rating can reach up to 50 kA per phase at 8/20 us standard lightning waveform.

#### FEATURES

- > High Surge Current Rating
- > Shunt Configuration Design
- > Fast Response time
- > Normal mode protection
- > Low let through voltage
- > Terminal Interface
- > Easy to Installation
- > Remote Alarm Interface
- > DIN rail Mounting

#### SPECIFICATIONS

**Design & Structural :** Saingle Stage High Energy Handling Design incorporated with removable/replaceable TVSS module and Remote Alarm circuit.

#### Electrical System :

- Nom. Line Voltage (Un) :** 220-230 Vrms, 50/60 Hz
- Max. Line Voltage (Uc) :** 25 Vrms
- Rate Current :** unlimited

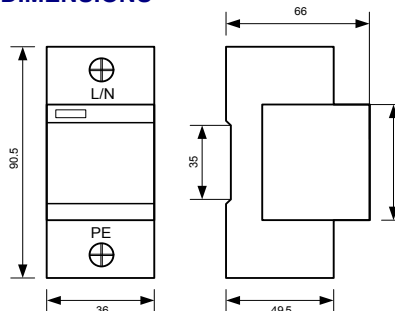
- Reference Standard :**
- IEC 61643-11:2011
  - IEC 61643-11:2012
  - EN 61643-11:2009
  - DIN VDE 0675
  - UL-1449 (2nd edition 1996)
  - ANSI/IEEE C62.41-2002

**Category IEC/EN/VDE :** Class I+II / Type1+2 /B +C

#### Protection Config :

- Installation :** Shunt (Line-Neutral. PE)
- Protective Device :** MOV (Metal Oxide Varister)
- Responstime :** <25 nanosec.
- Temporary over voltage TOV (Ut) :** 415V (5 sec withstand mode) & 445V (60 min in safe failure mode)

#### DIMENSIONS



#### Surge Rating :

- Nominal discharge surge current  $I_n(8/20)\mu s$  :** 30kA
- Max. discharge surge current  $I_{max}(8/20)\mu s$  :** 50kA

#### Control & Monitoring :

- Display :** Status Display
- Module :** Easy for new module replacement

#### Surge Performance:

- Voltage Protection level L-N (Up) :** <1.2kV

#### Physical:

- Operating Temperature :** -40 to 85 °C
- Insulation housing :** PBT/PA
- Protection type :** IP20
- Mounting on :** DIN rail 35mm
- Weight :** 90g