

SURGE SUPPRESSION

Surge Suppression (over-under protection for power line)



Overview

- High surge current rating
- Series configuration design
- Short/Long voltage duration protection
- Over/Under voltage protection
- Normal mode protection
- Low let through voltage
- Terminal and Universal plug interface
- Easy to Installation
- I/O port
- Wall type mounting

Overview

The power line surge suppression products 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 ANSI/IEEE, IEC, etc. This models are available for series protection with high capability in suppressing both short duration (impulse voltage limiting), long duration surge and over/under voltage duration that could occur in power lines.

It use the high energy handling Transient Voltage Surge Suppression (TVSS) device and with Short/Long voltage duration protection circuits which offers greater protection capability, higher surge rating, faster response time, and controlling the voltage in the under / over voltage condition without cutting the electricity (output). Models available for single phase systems and level of protection by means of surge rating can reach up to 40kA per phase at 8/20us standard lightning waveform.

Specification

Electrical System

Nominal Line Voltage (U_n) :	220-230Vrms, 50-60Hz
Max. Line Voltage (U_c) :	300Vrms, 50-60Hz
Rate Current :	3.5A

Protection :

Breaker/Fuse	10A
Overload	Yes
Short circuit	Auto shutdown

Regulation Short/Long voltage duration :

Output Line Voltage :	220Vrms +/- 5%
Safety cycle	6 sec. selectable

Reference Standard :

ANSI/IEEE C62.41-2-2002 , IEC 61643-11 :2011, EN 61643-11:2012, DIN VDE 0675

Category IEC/EN/VDE/ANSI/IEEE :

Class I+II / Type1+2 / B+C / Cat.B3, C1

Protection Config :

Installation :	Series
Protective Device (Line-Neutral):	Single MOV
Response time MOV (t_A) :	<25 nanosec

Surge Rating :

Nominal discharge surge current (8/20 μ s) (I_n) :	20kA
Max. discharge surge current (8/20 μ s) (I_{max}) :	40kA Lightning Impulse
Current (10/350us) (I_{imp}) :	5.25kA

SURGE SUPPRESSION

Surge Suppression (over-under protection for power line)

Specification

Control & Monitoring :

Display : LED display and I&O digital LED meter
I/O port NO/NC contact

Surge Performance:

Protection level (U_p) : $\leq 1.2kV$ (L-N)
Temporary over voltage, TOV (U_T) : 300V (5s / withstand mode)
350V (60min / safe failure mode)

Physical:

Operating Temperature : - 40 to 80 °C
Connector installation :
input : Terminal interface
output : Universal plug
Housing material : Metal
Mounting on : Wall type
Cross-sectional area : 2.5mm²
Dimensions (W x L x H) mm : 170x 215 x 100
Weight : 3.3kg