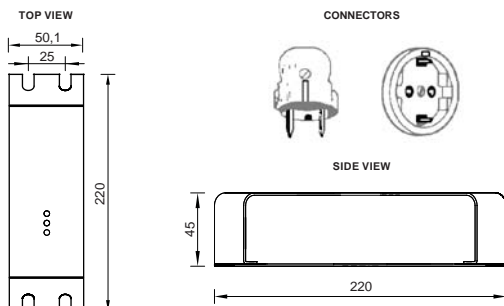


## ACDC SURGE PROTECTOR

### EIGHT (8) STAGES SERIES PROTECTOR 1/1

#### PLUG IN INSTALLATION - SCHUKO PLUG



### Innovation Approach to Surge Protection

ACDC Multi-Stage Surge Protectors have built-in five (5) patents and use four (4) complementary different protection technologies, (Varistor, Gas Tube, Nanocrystalline Cores and TVS technology) in one unit. That result with reducing the surge current up to 99.9% at single point.

This characteristic can not offer competitive surge products and present a fundamental improvement in Surge Protection technology. Implementation of ACDC Surge Protectors are simple and applicable for professions such as planners, construction engineers, designers, electricians and others.

**ACDC Surge Protector Type - PS 11-M Orange Series** is compact stand alone multi-stage surge protector consists of 8 (eight) & 25A protection stages that provides effective and reliable protection against surges and transients. The protection device have high grade cascade bi-directional EMI/RFI filtering of phase (L) and neutral (N) wire and special diagnostic for condition of ground.

**Application:** The scope of applications of ACDC Surge Protectors is quite wide and refers to the protection of electrical devices against impulse surge and high-frequency (electromagnetic) disturbance, oscillation, speaks in network power supply and atmospheric discharge. ACDC protectors have high-grade cascade bidirectional filtering. They are tracking AC waveform eliminating so-called pollution in power AC supply.

These protectors have special design to protect and improve functioning of sophisticated equipment in Telecommunications, Computers, Medical equipment, Military, Home electrical appliances and other.

**Technical Specifications:** The surge Protector of type ACDC Surge Protector - Orange Series is 8 (eight) stages Single Phase Protector in metal enclosures with applications for load currents of up to 25A.

**Investment:** Installation of ACDC Surge Protector type - PS is excellent choice for investment in the quality of your power network supply, extended equipment life and reduce their down time and errors.

**Reliability:** If the stages 2,4 and 6 are out of function, the stages 1,3 and 7 are still provide a high grade cascade bi-directional filtering along with ultimate (5-th) protection stage.

## Technology

Multi-Stage Surge Protection  
Eight (8) Stages Series Protector

## Specification

Cascade bi-directional EMI-RFI filtering  
of phase (L) and neutral (N) wire

## Load

Up to 25A single phase; up to 3kW load for  
120VAC; up to 5kW load for 230VAC

## Basic Options

Indication for bed grounding

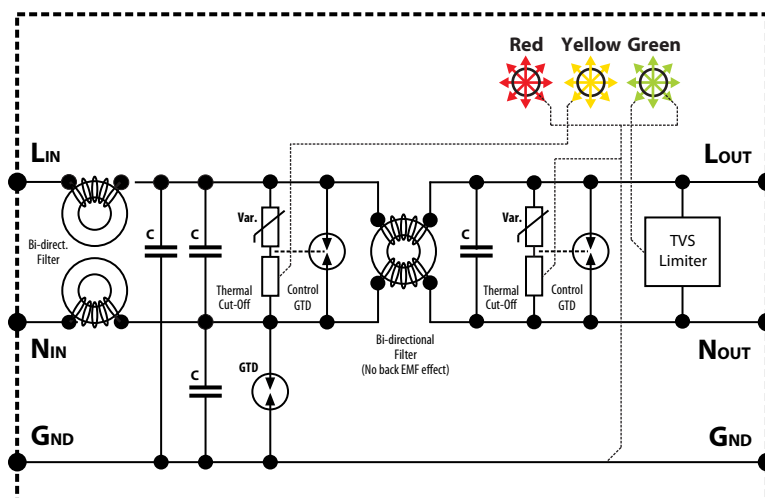
## Installation

Plug-in installation, schuko plug, terminal  
block or according customer requirements

## Product Standard

IEC61643-1 Class I+II+III; IEC60939-2

## Basic Circuit Diagram - Orange Series:



Protection Stage	Technical Specification ACDC Surge Protector Type-PS 11-M Orange Series	Function	Technology
1. First stage	L=0.7mH; I <sub>max</sub> =up to 25A	Bi-directional filtering (L-N); Front signal edge reduction;	Nano Crystalline Core (L-C configuration)
2. Second stage	Surge Cur. 80kA (8/20μs) or 12,5kA (10/350μs)	Suppression signal shape (L-N), 8/20μs or 10/350μs	Varistor with thermal cut-off; Control Gas Tube Discharge
3. Third stage	L=4.2mH; I <sub>max</sub> =up to 25A	Bi-directional EMI/RFI filter; Front signal edge reduction;	Nano Crystalline Core (L-C configuration)
4. Fourth stage	Surge Cur. 25kA (8/20μs)	Suppression signal shape (L-N), 8/20μs	Varistor with thermal cut-off
5. Fifth stage	Ultimate protection stage. He switch-off the circuits breaker install upstream, if the pick voltage >300DC for 120VAC or 520VDC for 230VAC appears on the output. Circuits breaker < 200A gI/gG.	Long term signal suppression from 1μs to 2sec.	Control Gas Tube Discharge
6. Sixth stage	TVS Limiter 500A (8/20μs); Typical response < 1nsec (nanosecond)	High speed efficiency signal suppression	Transient Voltage Suppressor
7. Seventh stage	L=0.7mH; I <sub>max</sub> =up to 25A	Bi-directional filtering (N-L); Front signal edge reduction;	Nano Crystalline Core (L-C configuration)
8. Eight stage	Surge Cur. 80kA (8/20μs) or 12,5kA (10/350μs)	Suppression signal shape (N-Gnd), 8/20μs or 10/350μs	Control Gas Tube Discharge

## Single Phase

## ACDC Surge Protectors Type - PS 11-M Orange Series



Type	Type - PS 11-M
Order Code	500.215
Total Surge Cur.	105kA (8/20μs) or 15kA (10/350μs)
Dimension (WxDxHmm)	220x50x45
Weight (kg)	1,6

Certificate of Quality ISO 9001:2008  
Varistors Standard IEC 61643-1; UL 1449  
Elect. Magn. Interfer. IEC 60939-2  
Protec. Standard acc. IEC 61643-1 Class I+II+III

## Applications:

Computers  
Servers  
Telecommunication  
Medical equipment  
Sensitive electronic  
Solars  
Industrial grade

## Features:

Integrate Multi - Stage Protection System  
Eight Protection Stages  
Bi-directional Wave Filtering  
Expel Ground Contamination  
Thermal Circuit Protection  
High Reliability  
Excellent Response Time < 1ns