



LEADING THE RECYCLING ECONOMY,
INNOVATIVE ENERGY-SAVING EMISSION REDUCTION!

Oldiang
Oldiang Smart Electrical



Product Selection Guide

Surge Protective Device (SPD)

CHS13/CH15/CHS17 series
Standard: IEC61643-1
Rated Voltage: 220/380VAC
Voltage Protection Level: 1~2.3KV
Nominal Discharge Current: 5~40KA





ISO 9001



ISO 14001



OHSAS 18001

Surge Protective Device (SPD)

CHS13/CH15/CHS17 series
Standard: IEC61643-1



Oldlang Smart Electrical

Innovative Energy-Saving Emission Reduction
Leading The Recycling Economy

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About Oldlang Smart Electrical

The company named Oldlang Smart Electrical, which is a modern technology enterprise, committed to innovating energy conservation and emission reduction and leading the circular economy. The products focus on the original, low carbon, energy saving, collecting data, remote control and other functions are the characteristics of Oldlang's Smart electrical products. To enable users to use energy safely, reliably and efficiently is the value idea of Oldlang Smart Electrical. Therefore, the intelligent energy management is not only the inevitable development of the times, but also the direction of the development of the intelligent electrical of Oldlang's. Oldlang Smart Electrical provide wisdom into the city, the intelligent household practical products, improve people's life, improve the earth's environment, insist on sustainable development has always been the belief of Oldlang Smart Electrical.

In Oldlang smart electrical, we are always advocating:

INNOVATIVE ENERGY-SAVING EMISSION REDUCTION LEADING THE RECYCLING ECONOMY!



Factory



Hospital



Building



Community



School



Household



Low Carbon



Wireless



Energy Saving

CHS13 Surge Protective Device

Standard: IEC61643-1  

Application

CHS13 Surge protective Devices (referred as SPD) provide protection against surge current resulted from direct or indirect lightning strike or similar surge voltage. SPD is applicable to circuit with rated voltage up to 400V~, rated frequency 50/60Hz.

The product, using metal oxide varistor, designed to protect both phase and neutral line, is of high electricity resistance under normal operation. In case of surge current or voltage caused by lightning strike or similar, SPD functions quickly to conduct the surge voltage/current to earth and thus effectively prevent the downstream equipments of its protected line from destruction. SPD resume its high electricity resistance to secure normal operation of the protected power network without presence of the surge voltage.

Construction and Feature

- One-unit type assure the stability of product
- On-off indicating window
- Quick response less than 25ms

Technical Data

- Pole No. : 1
- Frequency: 50/60Hz
- Connection terminal:
 - Pillar terminal with clamp
 - Terminal Connection Height: H=19mm
- On-Off indicating window:
 - Green: normal function
 - Red: functionless, immediate replacement required
- Connection capacity: rigid conductor 25mm²

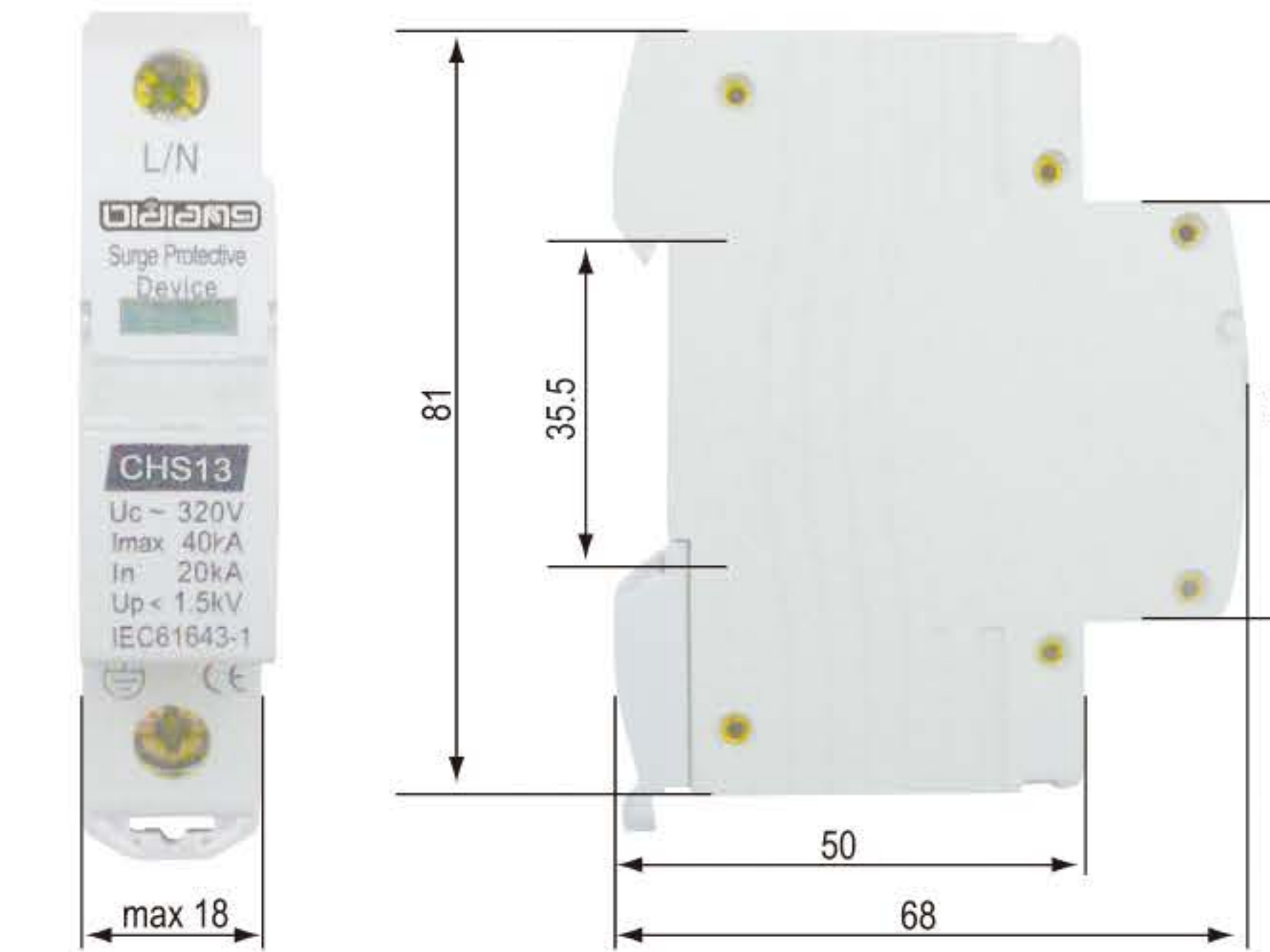
Category	CHS13-A	CHS13-B	CHS13-C	CHS13-D	CHS13-E
Rated Voltage Un	220	220	220	380	380
Max. Continuous Operating Voltage Uc(V)	320	320	320	420	460
Voltage Protection Level Up(Kv)	1	1.2	1.5	2.0	2.3
Nominal Discharge Current (Ka)	5	10	20	30	40
Rated Varistor Voltage(V)	510 ± 10%			680 ± 10%	
Max. Discharge Current Imax (Ka)(8/20us)	10	20	40	60	70
Response Time (Ms)	< 25				
Power Withstand (J) (2ms)	300	390	640	1500	1580
Ambient Temperature	-40~+80				
Function Unit Colour	deep yellow	light yellow	light grey	brown	red
Min. Terminal Connection (Mm ²)	phase, neutral 2.5, earth 4				



CHS13 Surge Protective Device

Standard: IEC61643-1  

Overall & Installation Dimensions



Wiring Diagram

- Single-pole product, used for protecting 220V single-phase system against the surge over voltage;
- Two-pole combined product, used for protecting 220V single-phase system against L and N-to-earth lightning over voltage;
- Three-pole combined product, used for protecting 380V TT and TN-S systems against L-to-L lightning over voltage and for protecting 380V IT and TN-C systems against S-to-S lightning over voltage;
- Four-pole combined product, used for protecting 380V TT and TN-S systems against L and N-to-earth lightning over voltage.

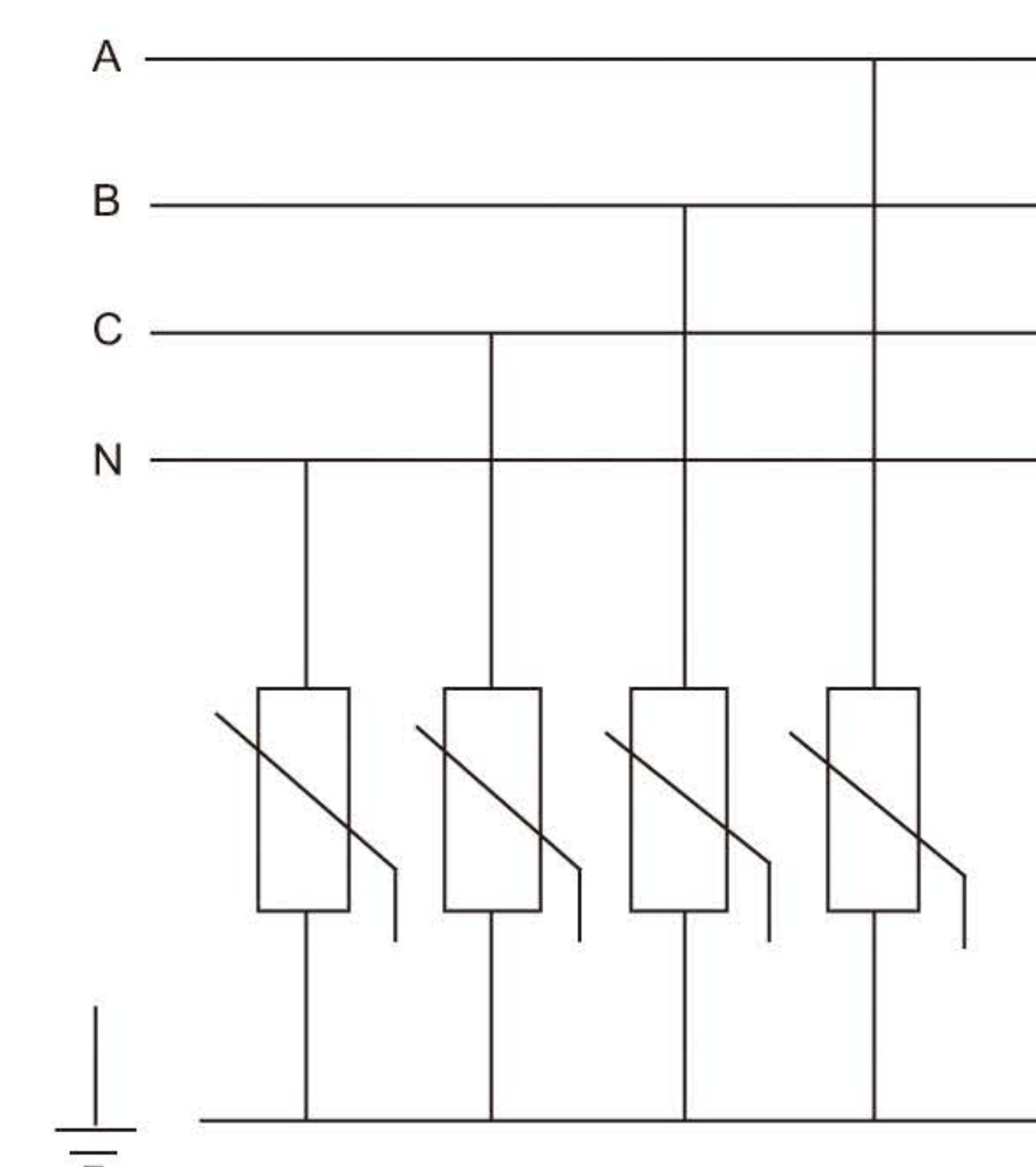


Chart 1: 380V Network diagram

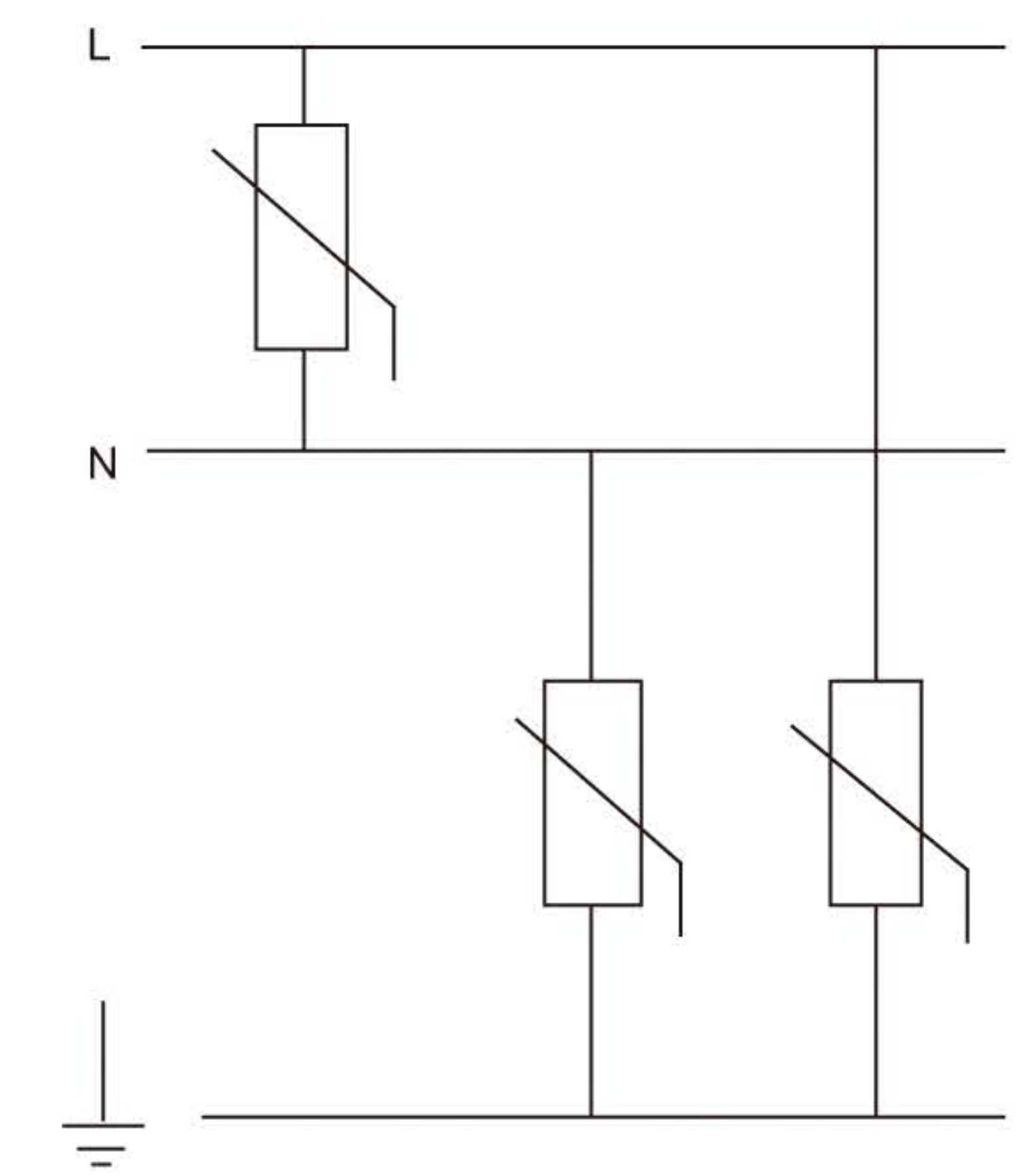


Chart 2: 220V Network diagram

CHS15 Surge Protective Device

Standard: IEC61643-1

Application

CHS15 Surge protective Devices (referred as SPD) provide protection against surge current resulted from direct or indirect lightning strike or similar surge voltage. SPD is applicable to circuit with rated voltage up to 400V~, rated frequency 50/60Hz.

The product, using metal oxide varistor, designed to protect both phase and neutral line, is of high electricity resistance under normal operations. In case of surge current or voltage caused by lightning strike or similar, SPD functions quickly to conduct the surge voltage/current to earth and thus effectively prevent the downstream equipments of its protected line from destruction. SPD resume its high electricity resistance to secure normal operation of the protected power network without presence of the surge voltage.

Construction and Feature

- Plug-in type function unit makes easy replacement
- On-off indicating window
- Quick response less than 25ms

Technical Data

- Pole No. : 1, 2, 3, 4
- Frequency: 50/60Hz
- Connection terminal:
 - Pillar terminal with clamp
- Terminal Connection Height: H=19mm
- On-Off indicating window:
 - Green: normal function
 - Red: functionless, immediate replacement required
- Connection capacity: rigid conductor 25mm²

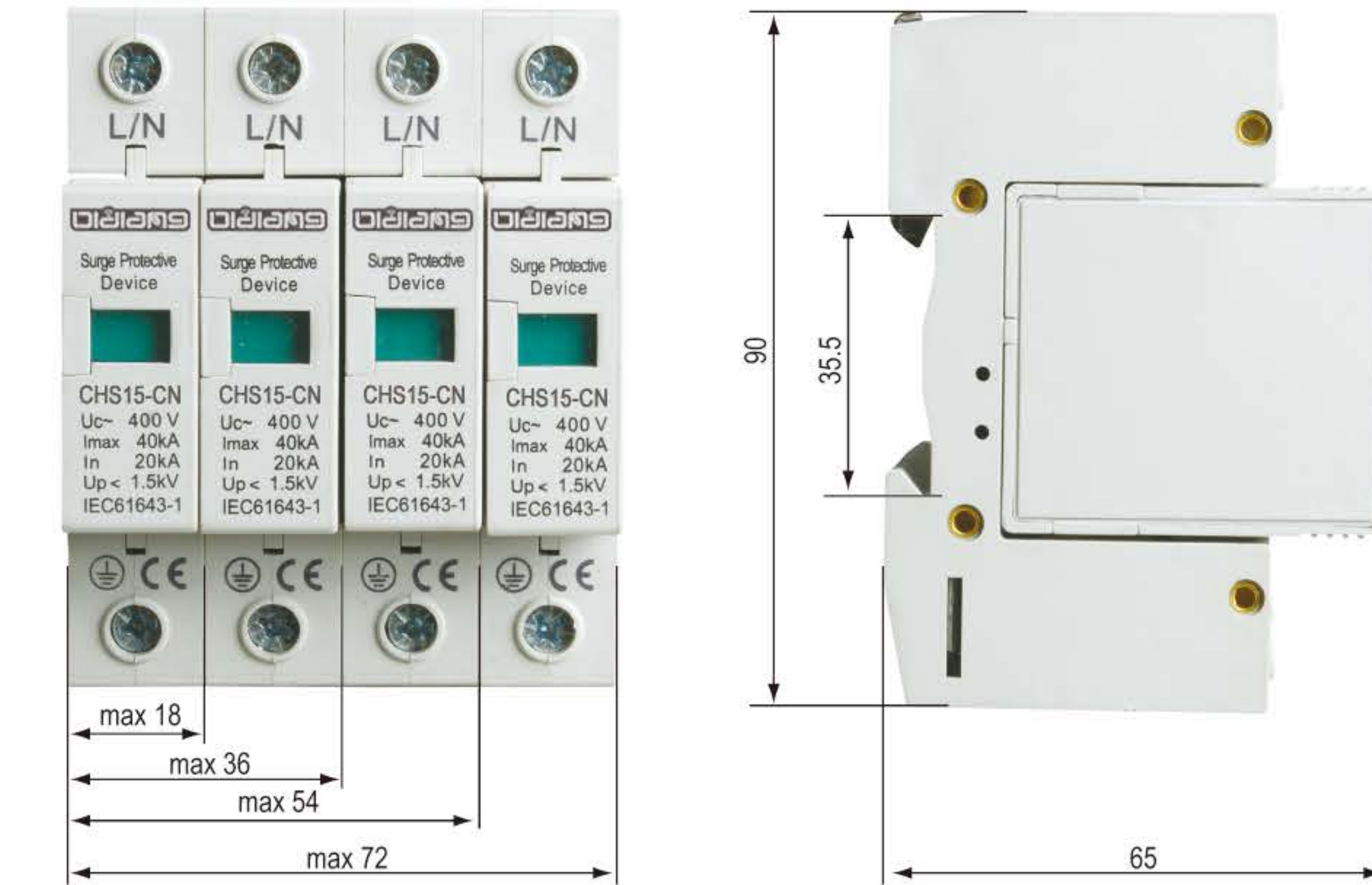
Category	CHS15-A	CHS15-B	CHS15-C	CHS15-D	CHS15-E
Rated Voltage Un	220	220	220	380	380
Max. Continuous Operating Voltage Uc(V)	320	320	320	420	460
Voltage Protection Level Up(Kv)	1	1.2	1.5	2.0	2.3
Norminal Discharge Current In(Ka)	5	10	20	30	40
Rated Varistor Voltage(V)	510 ± 10%			680 ± 10%	
Max. Discharge Current Imax (Ka)(8/20us)	10	20	40	60	70
Response Time (Ms)	< 25				
Power Withstand (J) (2ms)	300	390	640	1500	1580
Ambient Temperature	-40~+80				
Function Unit Colour	deep yellow	light yellow	light grey	brown	red
Min. Terminal Connection (Mm ²)	phase, neutral 2.5, earth 4				



CHS15 Surge Protective Device

Standard: IEC61643-1

Overall & Installation Dimensions



Wiring Diagram

- Single-pole product, used for protecting 220V single-phase system against the surge over voltage;
- Two-pole combined product, used for protecting 220V single-phase system against L and N-to-earth lightning over voltage;
- Three-pole combined product, used for protecting 380V TT and TN-S systems against L-to-L lightning over voltage and for protecting 380V IT and TN-C systems against S-to-S lightning over voltage;
- Four-pole combined product, used for protecting 380V TT and TN-S systems against L and N-to-earth lightning over voltage.

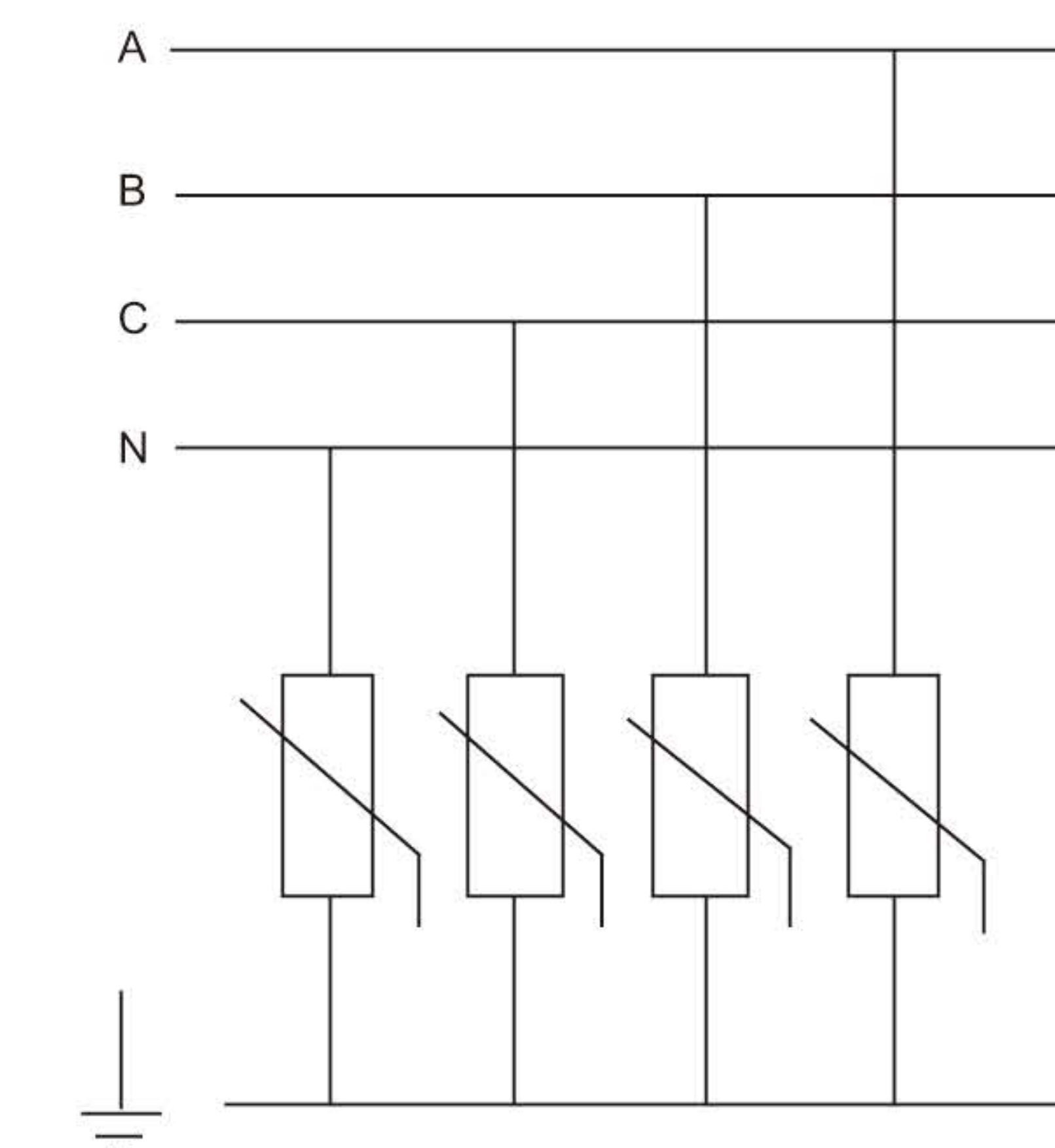


Chart 1: 380V Network diagram

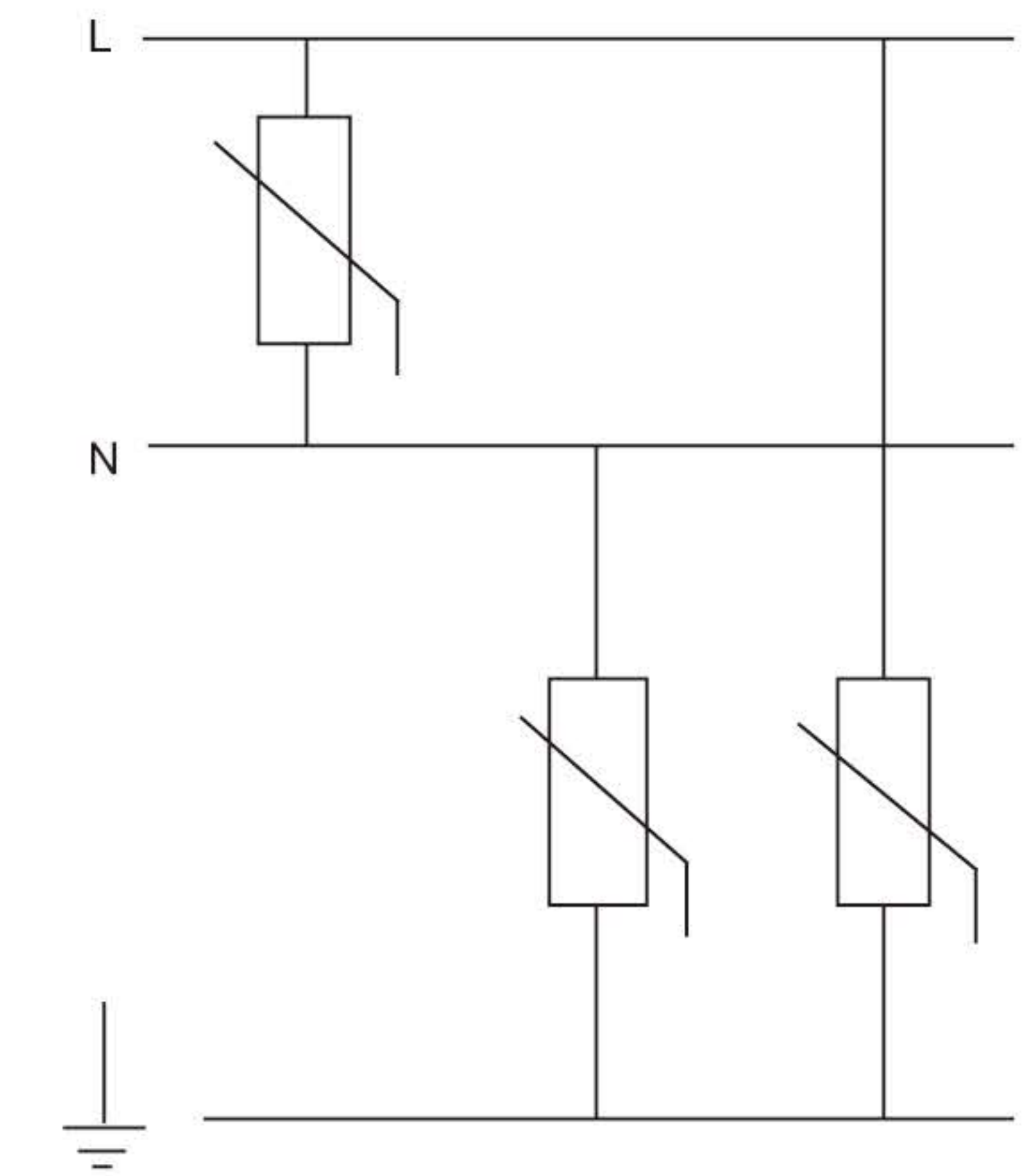


Chart 2: 220V Network diagram

CHS17 Surge Protective Device

Standard: IEC61643-1  

Construction and Feature

- Unique cartridge replacement system - easy to replace cartridge without damaging the SPD base.
- Users don't need to remove the enclosure's cover when replacing the cartridge.
- Signalisation of varistor's abrasion degree (green-red signalisation) indicating the replacement necessity of still functional cartridge before its final failure and disconnection of SPD.
- Remote signalisation without any special preparation. To any of our SPD is possible to simply add remote signalisation accessory at any time. Old version of signalisation has to be added prior to during production, so users need to know in advance which products they will need with signalisation thus they need to keep high stock suffering from low flexibility.

Technical Data

- Pole No.: 1, 1P+N, 2, 3, 3P+N, 4
- Frequency: 50/60Hz
- Connection terminal: Pillar terminal with clamp
- Terminal Connection Height: H=19mm
- On-Off indicating window:
 - Green: normal function
 - Red: functionless, immediate replacement required
 - Green+Red: warning
- Connection capacity: rigid conductor 25 m

Model & Specification	CHS17-A	CHS17-B	CHS17-C	CHS17-D	CHS17-E
Rated Voltage Un	220	220	220	380	380
Max. Continuous Operating Voltage Uc(V)	320	320	320	420	420
Voltage Protection Level Up(Kv)	1	1.2	1.5	2.0	2.3
Nominal Discharge Current (Ka)	5	10	20	30	40
Rated Varistor Voltage(V)	510 ± 10%	510 ± 10%	510 ± 10%	680 ± 10%	750 ± 10%
Max. Discharge Current Imax (Ka)(8/20us)	10	20	40	60	70
Response Time (Ms)	< 25				
Power Withstand (J) (2ms)	300	390	640	1500	1580
Ambient Temperature	-40~+80				
Min. Terminal Connection (Mm ²)	2.5 Phase Line, Null Line; 6 Earth Line				

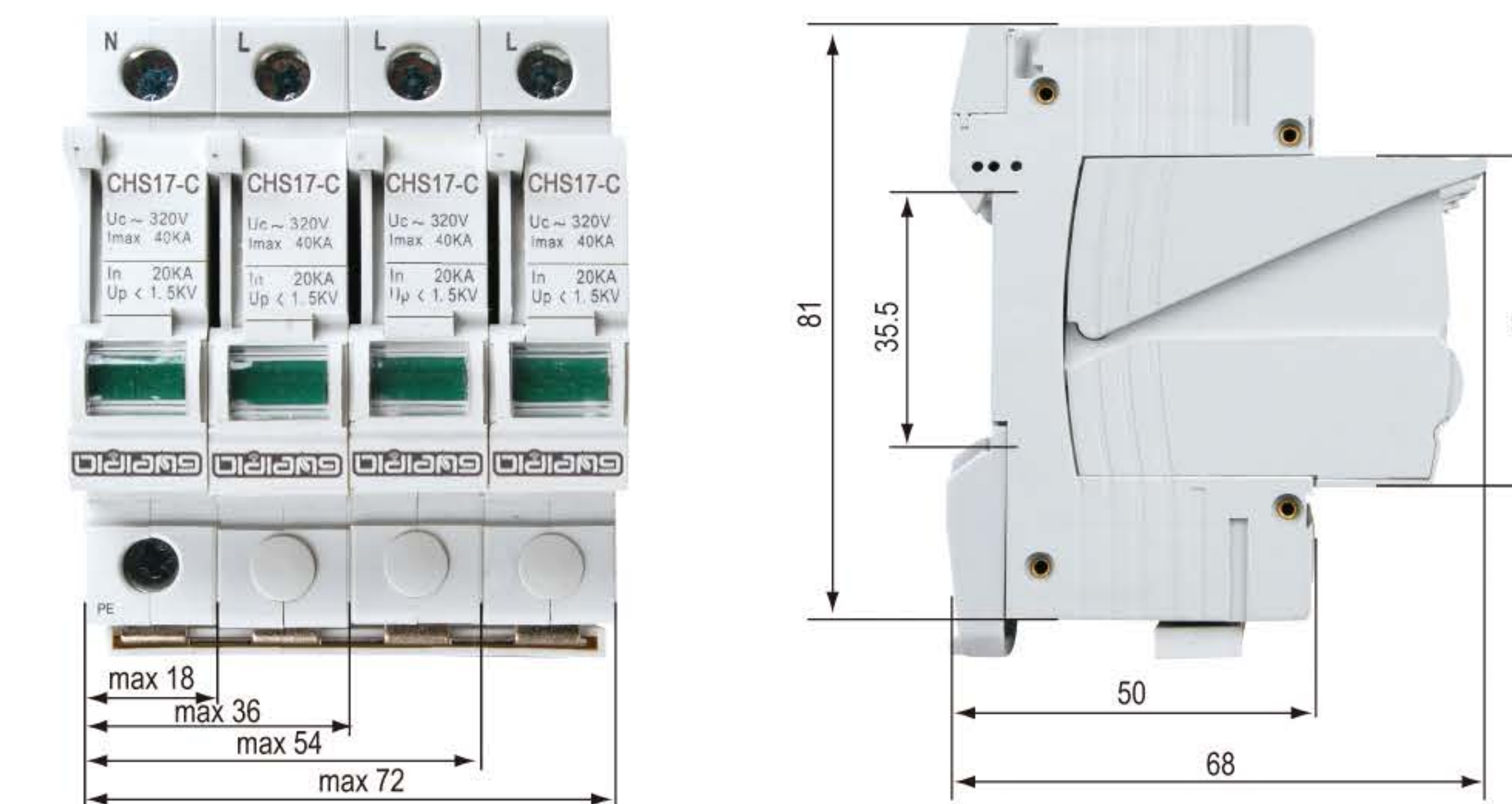
Modular Devices For Protecting, Controlling And Signalling



CHS17 Surge Protective Device

Standard: IEC61643-1  

Overall & Installation Dimensions



Wiring Diagram

- Single-pole product, used for protecting 220V single-phase system against the surge over voltage;
- Two-pole combined product, used for protecting 220V single-phase system against L and N-to-earth lightning over voltage;
- Three-pole combined product, used for protecting 380V TT and TN-S systems against L-to-L lightning over voltage and for protecting 380V IT and TN-C systems against S-to-S lightning over voltage;
- Four-pole combined product, used for protecting 380V TT and TN-S systems against L and N-to-earth lightning over voltage.

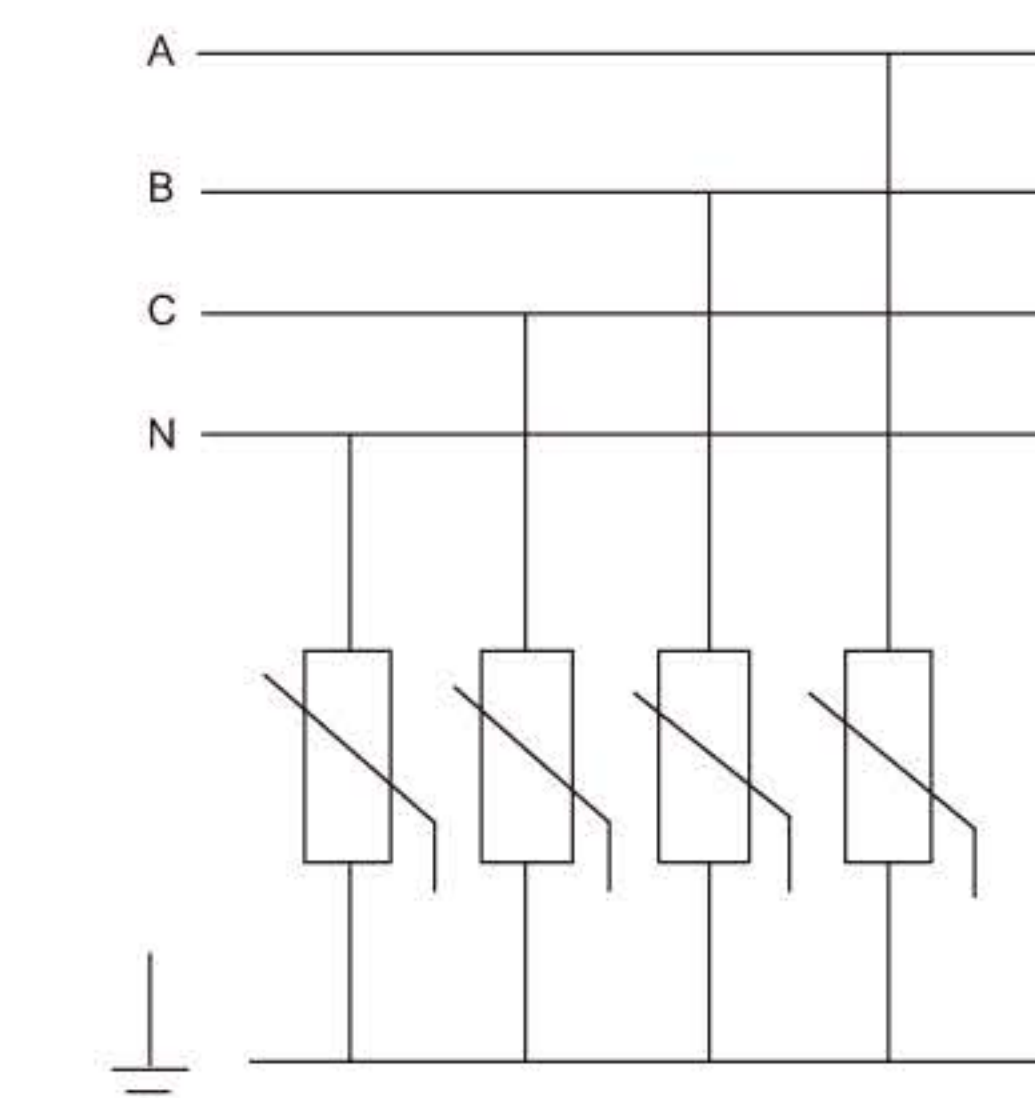


Chart 1: 380V Network diagram

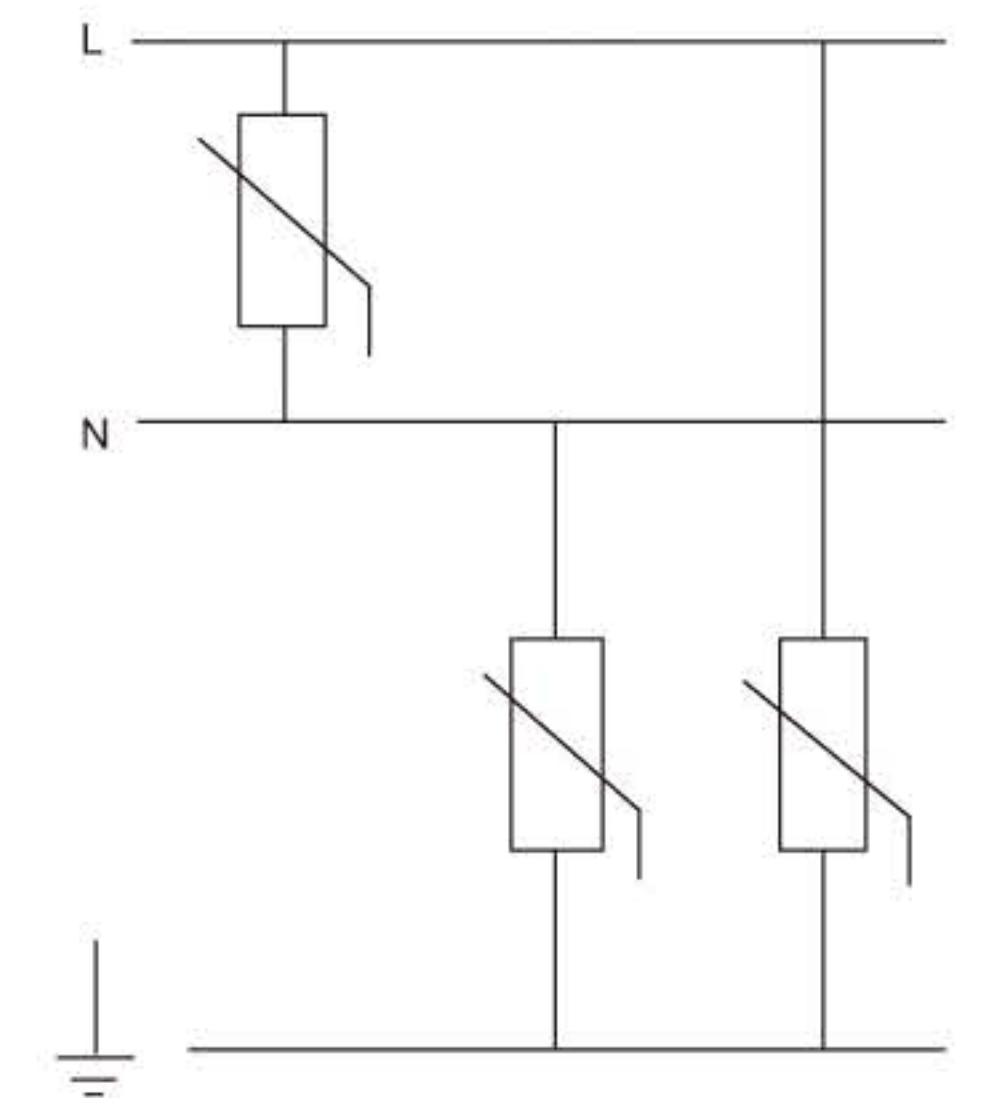


Chart 2: 220V Network diagram

Arrester replacement diagram



Signal output box installation



Modular Devices For Protecting, Controlling And Signalling



SAVE ON ENERGY, STARTS FROM ME !



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TrustPass



Gold Supplier



Trade Assurance



Low Carbon



Wireless



Energy Saving

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