

Weidmüller surge protection: VARIRECTOR VPU AC I S-Line – type I 25 kA pioneering surge protection for power feed-in and power distribution. – Fuseless operation up to 315 A – cuts space requirements by 50%. – Reduced maintenance effort thanks to pluggable arresters. – Certified components according to IEC 61643-11.

Surge protection is facing new challenges: thanks to miniaturised and economical IT components, technical devices are becoming network-compatible and increasingly intelligent. However, as a result, they are becoming increasingly sensitive in their reaction to surge voltages. Demands are growing, especially in areas of power supply such as the generation of renewable energies, the process industry and building infrastructure. In response to this, Weidmüller is offering the VARIRECTOR PU AC I S-Line, which is based on Homogeneous Arc Distribution technology (HAD). This technology allows for a particularly space-saving pluggable design with a width of just 18 mm per pole and a discharge capacity of 25 kA. What makes this possible is the use of multi-cell gas discharge tubes in this product line instead of conventional sparkover gaps. In a sparkover gap, the arc is deflected and extended, after which it finally extinguishes. This process takes time, during which the follow current may rise sharply. With the multi-cell gas discharge tube, the homogeneous arc distribution (HAD) achieves a reduced follow current and therefore significantly fewer retroactive effects in the network. A 16 A class gG fuse does not trip. The service life of downstream terminal devices such as WLAN routers is extended considerably, as there is no unnecessary load exerted on sensitive devices and systems. The use of multi-cell gas discharge tubes also increases system availability, as it precludes disruptions due to downtimes while reducing costs for repairing damage and purchasing new equipment. This saves both time and money. Type 1 lightning current arresters, such as the new VARIRECTOR S-Line, are also used in pre-meters, as they are leakage current-free. For this purpose, type 1+2 combi-arresters can also be used in mains-side terminal compartments. The VARIRECTOR S-Line fulfils the requirements for the mandatory installation of surge protection components in accordance with DIN VDE 0100-443/534. In case of an overvoltage event, the Weidmüller devices score well with a protection level of up to < 1.5 kV. This makes the VPU AC S-Line energetically coordinated as a type I, II and III arrester. Additional protection is thus only required from a cable length of 10 m to the next electrical consumer. Of course, the arresters are tested according to the product standard IEC61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE 0675-6-12 or IEC 62305-4 / VDE 0185-4. However, they offer much more than standard devices, including fuseless operation up to 315 A, and eliminate the need for additional space, installation work and costs for a separate back-up fuse.

Even when servicing is required, the VARITECTOR PU AC I S-Line proves to be a real time saver: pluggable arresters reduce the required maintenance work. The intelligent locking mechanism guarantees reliable operation, even in harsh environmental conditions. A coding system prevents the arresters from being interchanged. N/PE surge protection arresters in the product variants 3+1 and 1+1 indicate the status of the protective element optically and transmit it via the remote signalling output. Variants with pre-warning display enable uninterrupted protection.

With these key figures and features, the VARITECTOR PU AC I S-Line is ideal for the increasingly sensitive infrastructure associated with growing digitalisation. It also meets the demands of plant manufacturers for increasingly compact and efficient components in order to respond to mounting cost pressure.

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Hashtags: Weidmüller, VARITECTOR, surge protection, power feed-in, SPD, VPU AC, homogeneous arc distribution

SEO terms: Weidmüller, VARITECTOR, surge protection, power feed-in, SPD, surge protection device, arrester, surge voltage arrester



Image caption: 2021_CMS_GR_VPU_S_Line_Old_New_HA_1.png

The VARITECTOR PU AC I S-Line offers powerful and efficient protection requiring 50% less space.



Image caption:

The VARITECTOR PU AC I S-Line is leakage current-free and is used in pre-meters.

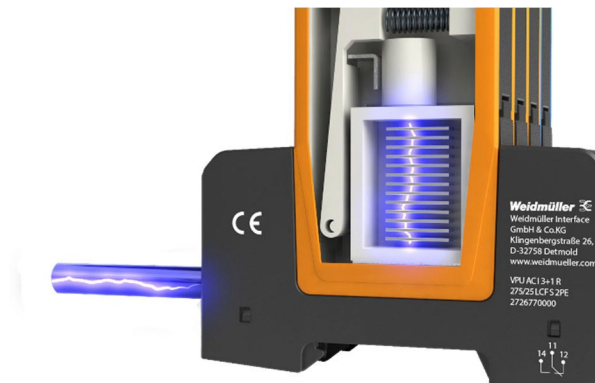


Image caption: VPU ACS_01

The innovative homogeneous arc distribution technology significantly reduces the follow current with significantly fewer retroactive effects in the network.

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Weidmüller – your partner in industrial connectivity.

The Weidmüller Group has production facilities, marketing companies and representative offices in more than 80 countries. Together with our customers, we shape the digital transformation – with products, solutions and services for Smart Industrial Connectivity and the Industrial Internet of Things. In the fiscal year of 2021, Weidmüller reached sales of 960 million euros with around 5,300 employees.

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