

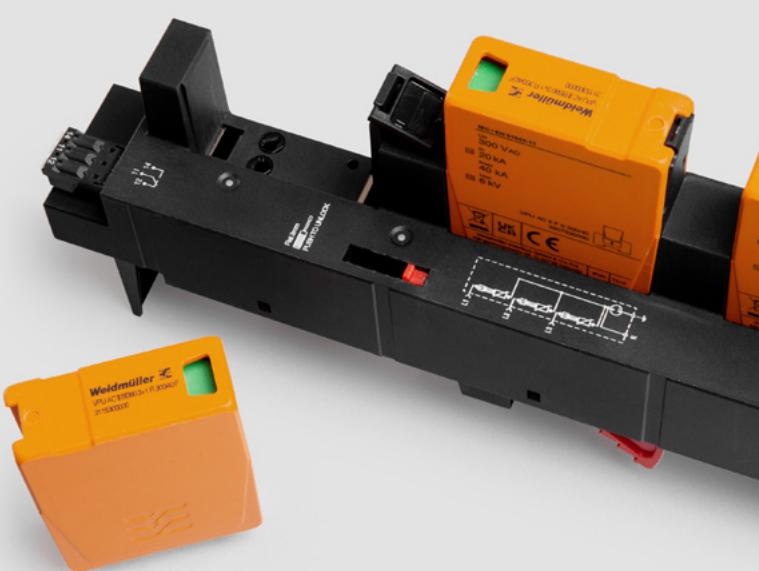
VARITECTOR - Lightning and surge protection

VPU AC BS60 - Surge protection for 60 mm busbar systems

Quick and easy installation of surge protection

Efficient lightning and surge protection is essential to ensure system availability in buildings, industrial operations and power generation plants. The components protect increasingly sensitive infrastructures from costly failures.

The VARITECTOR PU AC BS60 reliably protects electronic components and devices in larger distribution cabinets. It is snapped onto 60 mm busbar systems without tools and offers pluggable lightning and surge protection in accordance with IEC/EN 61643-11. The plug-in devices of types I+II+III and II+III are suitable for TN-C, TN-S and TT network types. The components are available as a leakage current-free version or as a version with an integrated fuse.



Your special advantages:

- Space-saving thanks to 36 mm width
- Quick and tool-free installation on 60 mm busbars
- Shorter wiring time and minimised complexity
- Removable adapter for 5 mm and 10 mm thick busbars
- Locking mechanism for the use of busbars of different widths
- Type and voltage coding
- Available as a leakage current-free version or with integrated fuse

Configuration for TN-C, TN-S and TT grids

Both type I and type II arresters are available for the common TN-C, TN-S and TT network types.



Time saving by simply snapping

The surge protection device is snapped onto the 60 mm busbar without tools, improves the voltage level and offers optimum electrical protection for the system.



Suitable for various busbars

A locking mechanism and a removable adapter make it possible to use different busbar widths and thicknesses.

High ease of maintenance

The pluggable arresters enable quick, easy and safe replacement in the event of maintenance. The devices also have a clearly visible status window and a pluggable remote signaling contact for reporting errors to the higher-level controller.

Technical data

Product name	Type	Mains voltage	Version	Order No.
VPU AC I BS60 3+1 R 300/12.5	I+II+III	230 V / 400 V		3115200000
VPU AC I BS60 3+1 R 300/12.5 LCF	I+II+III	230 V / 400 V	Leakage current-free	3115220000
VPU AC I BS60 3 R 300/12.5	I+II+III	230 V / 400 V		3115240000
VPU AC I BS60 3 R 300/12.5 LCF	I+II+III	230 V / 400 V	Leakage current-free	3115260000
VPU AC II BS60 3+1 R 300/50	II+III	230 V / 400 V		3115280000
VPU AC II BS60 3+1 R 300/40 F	II+III	230 V / 400 V	With integrated fuse	3115300000
VPU AC II BS60 3 R 300/50	II+III	230 V / 400 V		3115320000
VPU AC II BS60 3 R 300/40 F	II+III	230 V / 400 V	With integrated fuse	3115340000



Visit our website for more information
www.weidmueller.com/vpu-ac-bs-60



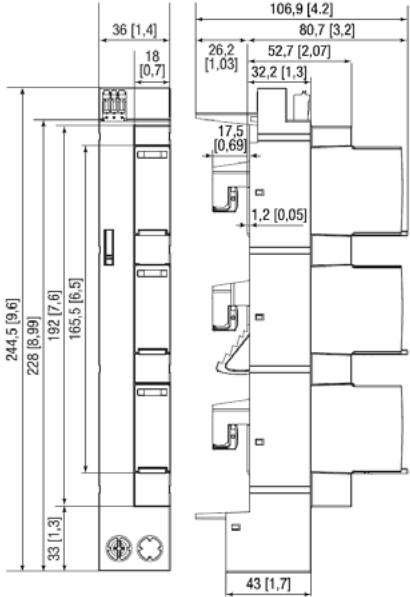
Visit our online catalogue
for more information

VPU AC II BS60 3+0

IEC Electrical		
Nominal AC Voltage (50/60Hz)	U_o/U_n	240 V
Maximum Continuous Operating Voltage (AC)	U_c	300 V
Nominal Discharge Current (8/20 μ s)	I_n	20 kA
Maximum Discharge Current (8/20 μ s)	I_{max}	40 kA
Voltage Protection Level	U_p	1500 V
Open Circuit Voltage of Combination Wave Generator (1.2/50 μ s)	U_{oc}	6 kV
Short Circuit Current of Combination Wave Generator (8/20 μ s)	I_{cw}	3 kV
Response Time	t_A	< 25 ns
Overcurrent Protection (max)		Not Required
Short-Circuit Current Rating (AC)	I_{SCCR}	100 kA
TOV Withstand 5s	U_T	337 V
TOV Safe Fail 120min	U_T	442 V
Number of Ports		1
Mechanical & Environmental		
Operating Temperature Range	T_s	-40° C to +85° C [-40° F to +185° F]
Permissible Operating Humidity	RH	5 % ... 95 %
Degree of soiling		2
Altitude (max)		4000 m [13123 ft]
Terminal Screw Torque	M_{max}	PH2 / 4.5 Nm [40 lbf-in]
Conductor Cross Section (max)		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible) 2 AWG (Solid, Stranded) / 4 AWG (Flexible)
Mounting		60 mm Busbar Systems Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm (with removed spacers)
Degree of Protection		IP 20*
Housing Material		Thermoplastic: Extinquishing Degree UL 94 V-0
Operating State / Fault Indication		Green Flag / Not Green Flag
Remote Contacts (RC)		Pluggable
RC Switching Capacity		AC: 250V/1 A, 125V/1 A; DC: 48V/0,5 A, 24V/0,5 A, 12V/0,5 A
RC Conductor Cross Section (max)		16 AW ⁶ (Solid) / 1.5 mm ² (Solid)

*IP 40 (in combination with cover)

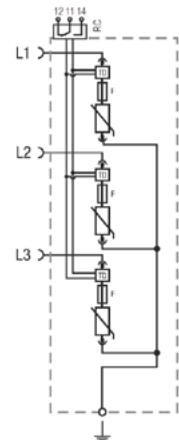
Dimensions & Packaging



Complete Unit

With remote contact

Weight	grams [pounds]	471 [1,038]
Packaging Dimensions (H x W x L)		42 x 134 x 259 mm [1.7 x 5.3 x 10.2"]
Standard Order Quantity		1 Unit

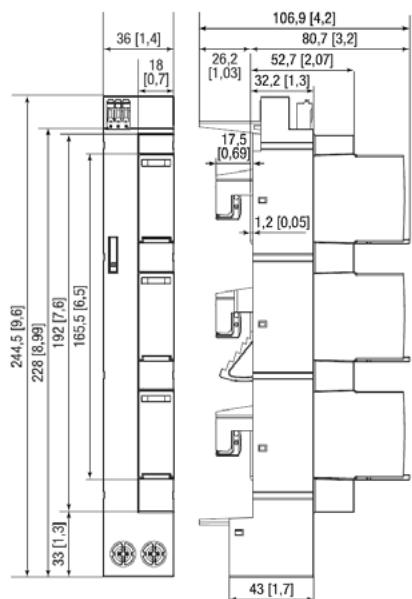


VPU AC II BS60 3+1

IEC Electrical		
Nominal AC Voltage (50/60Hz)	U_o/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300V
Nominal Discharge Current (8/20 μ s)	(N-PE) I_n	305V
Maximum Discharge Current (8/20 μ s)	(L-N)/(N-PE) I_{max}	20kA / 40kA
Voltage Protection Level	(L-N)/(N-PE) U_p	40kA / 65 kA
Open Circuit Voltage of Comb. Wave Generator (1.2/50 μ s)	(L-N)/(N-PE) U_{oc}	1500V / 1500V
Short Circuit Current of Comb. Wave Generator (8/20 μ s)	(L-N)/(N-PE) I_{cw}	6kV / 6kA
Follow Current Interrupt Rating	(N-PE) I_b	3kA / 3kA
Response Time	(L-N)/(N-PE) t_A	100 A
Overcurrent Protection (max)		< 25ns / < 100 ns
Short-Circuit Current Rating (AC)	I_{SCCR}	Not Required
TOV Withstand 5s	(L-N) U_T	100kA
TOV Safe Fail 120min	(L-N) U_T	337V
TOV Withstand 200ms	(N-PE) U_T	442V
Number of Ports		1200V
Number of Ports		
Mechanical & Environmental		
Operating Temperature Range	T_a	-40° C to +85° C [40° F to +185° F]
Permissible Operating Humidity	RH	5 % ... 95 %
Degree of soiling		2
Altitude (max)		4000 m [13123 ft]
Terminal Screw Torque	M_{max}	60 mm Busbar Systems
Conductor Cross Section (max)		PH2 / 4.5 Nm [40 lbf-in]
Mounting		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)
Degree of Protection		2 AWG (Solid, Stranded) / 4 AWG (Flexible)
Housing Material		60 mm Busbar Systems
Operating State / Fault Indication		Width: 12, 15, 20, 25, 30 mm
Remote Contacts (RC)		Thickness: 5 mm, 10 mm (with removed spacers)
RC Switching Capacity		IP 20*
RC Conductor Cross Section (max)		Thermoplastic: Extinguishing Degree UL 94 V-0
Degree of Protection		
Remote Contacts (RC)		Green Flag / Not Green Flag
RC Switching Capacity		Pluggable
RC Conductor Cross Section (max)		AC: 250V/1 A, 125V/1 A; DC: 48V/0,5 A, 24V/0,5 A, 12V/0,5 A
RC Conductor Cross Section (max)		16 AW ⁰ (Solid) / 1.5 mm ² (Solid)

*IP 40 (in combination with cover)

Dimensions & Packaging



Complete Unit

With remote contact

Weight	grams [pounds]	507 [1,118]
Packaging Dimensions (H x W x L)		42 x 134 x 259 mm [1.7 x 5.3 x 10.2"]
Standard Order Quantity		1 Unit

