

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.

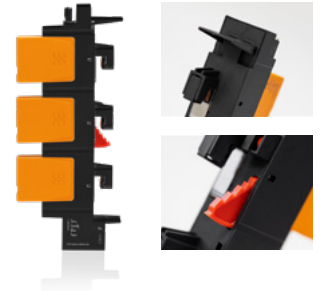


High ease of maintenance

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.

Suitable for various busbars

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



Application example in subdistribution

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.

Technical data

Product name	Type	Mains voltage	Grid system	Version	Back-up fuse	Order No.
VPU AC I BS60 3+1 R 300/12.5	I+II+III	230 V / 400 V	TN-C, TN-S, TT		> 315 A	3115200000
VPU AC I BS60 3+1 R 300/12.5 LCF	I+II+III	230 V / 400 V	TN-C, TN-S, TT	Leakage current-free	> 315 A	3115220000
VPU AC I BS60 3 R 300/12.5	I+II+III	230 V / 400 V	TN-C		> 315 A	3115240000
VPU AC I BS60 3 R 300/12.5 LCF	I+II+III	230 V / 400 V	TN-C	Leakage current-free	> 315 A	3115260000
VPU AC II BS60 3+1 R 300/50	II+III	230 V / 400 V	TN-C, TN-S, TT		> 315 A	3115280000
VPU AC II BS60 3+1 R 300/40 F	II+III	230 V / 400 V	TN-C, TN-S, TT	With integrated fuse	Integrated	3115300000
VPU AC II BS60 3 R 300/50	II+III	230 V / 400 V	TN-C		> 315 A	3115320000
VPU AC II BS60 3 R 300/40 F	II+III	230 V / 400 V	TN-C	With integrated fuse	Integrated	3115340000



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



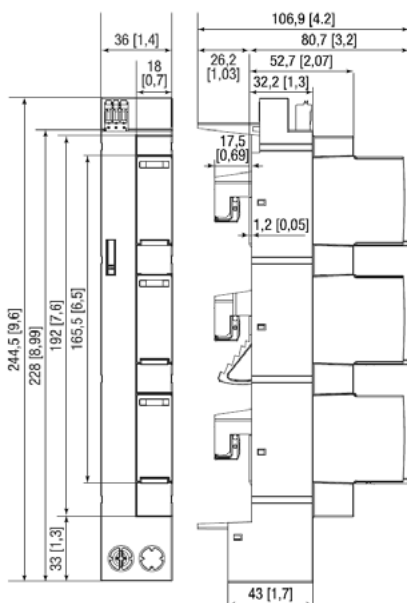
Visit our online catalogue
 for more information

VPU AC II BS60 3+0

IEC Electrical		
Nominal AC Voltage (50/60Hz)	U_n/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_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}	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) 60 mm Busbar Systems
Mounting		Width: 12, 15, 20, 25, 30 mm Thickness: 5 mm, 10 mm (with removed spacers)
Degree of Protection		IP 20*
Housing Material		Thermoplastic: Extinguishing 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 AWG (Solid) / 1.5 mm ² (Solid)

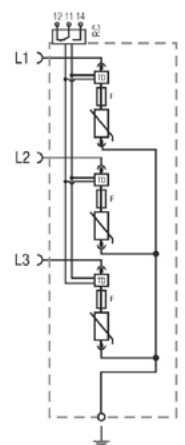
* IP 40 (in combination with cover)

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

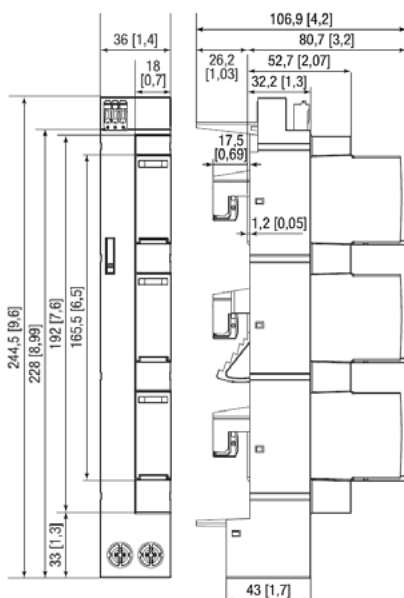


VPU AC II BS60 3+1

IEC Electrical		
Nominal AC Voltage (50/60Hz)	U_N/U_n	240V
Maximum Continuous Operating Voltage (AC)	(L-N) U_c	300V
	(N-PE) U_c	305V
Nominal Discharge Current (8/20 μ s)	(L-N)/(N-PE) I_n	20kA / 40kA
Maximum Discharge Current (8/20 μ s)	(L-N)/(N-PE) I_{max}	40kA / 65 kA
Voltage Protection Level	(L-N)/(N-PE) U_p	1500V / 1500V
Open Circuit Voltage of Comb. Wave Generator (1.2/50 μ s)	(L-N)/(N-PE) U_{oc}	6kV / 6kA
Short Circuit Current of Comb. Wave Generator (8/20 μ s)	(L-N)/(N-PE) I_{cw}	3kA / 3kA
Follow Current Interrupt Rating	(N-PE) I_f	100 A
Response Time	(L-N)/(N-PE) t_A	< 25ns / < 100 ns
Overcurrent Protection (max)		Not Required
Short-Circuit Current Rating (AC)	I_{SCCR}	100kA
TOV Withstand 5s	(L-N) U_T	337V
TOV Safe Fail 120min	(L-N) U_T	442V
TOV Withstand 200ms	(N-PE) U_T	1200V
Number of Ports		1
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}	PH2 / 4,5 Nm [40 lbf-in]
		35 mm ² (Solid, Stranded) / 25 mm ² (Flexible) 2 AWG (Solid, Stranded) / 4 AWG (Flexible)
Conductor Cross Section (max)		60 mm Busbar Systems
Mounting		Width: 12, 15, 20, 25, 30 mm
		Thickness: 5 mm, 10 mm (with removed spacers)
Degree of Protection		IP 20*
Housing Material		Thermoplastic: Extinguishing 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 AWG ⁶ (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

