



# ÖVE-CERTIFICATE

including the entitlement to use the Austrian Safety Mark



Certificate No.: **21593-001-00**

Valid from: 2019 09 02  
until: 2021 09 02

The Austrian Electrotechnical Association (OVE) hereby grants the right to the company mentioned below to label the listed products with the Austrian Safety Mark.

Company: **OBO BETTERMANN Hungary Kft**  
Alsorada 2  
2347 Bugyi  
Hungary

Product: **Surge protective device**

The products submitted by the applicant were type tested in accordance with the requirements of the technical standards and specifications listed in this certificate. OVE certifies the conformity of the listed products and those products manufactured strictly identical to the submitted ones (EN ISO/IEC 17067, Conformity Assessment Scheme Type 5).

The manufacturing process and the products are subject to ongoing surveillance based on harmonized European procedures. This certificate has been issued under the presumption and conditional on the fact that the applicant holds all necessary legal rights with regard to the product, presented for the testing and certification.

Results of testing are shown in file No(s): **3480-1795/20**

**Österreichischer Verband für Elektrotechnik**  
Head of Testing and Certification

Digitally signed by W. Martin  
Email=w.martin@ove.at

Dipl.-Ing. W. Martin

Wien, 2020 07 29



## OVE Testing and Certification

Accredited by the Federal Ministry for Digital and Economic Affairs as Certification Body for products within the scope as given in the official decree and published under [www.bmdw.gv.at/akkreditierung](http://www.bmdw.gv.at/akkreditierung).



**Manufacturer:**

OBO BETTERMANN Hungary Kft  
Alsorada 2  
2347 Bugyi  
Hungary

**Factory location(s):**

OBO BETTERMANN Hungary Kft  
Alsorada 2  
2347 Bugyi  
Hungary

**Tested and certified according to:**

OVE EN 61643-11:2019-04-01

This certificate is the basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent and shows the conformity with the listed standards as defined by the **EU Low-Voltage Directive 2014/35/EU**.

**Product: Surge protective device**

**Type designation:**  
*Rating:*

**Trademark:**

**Series V20**

backup fuse: 160 A gL/gG  
I<sub>sc</sub>cr = 50 kA  
(not for N-PE mode with GDT replacement plug C20-0-255)  
see type list

OBO Bettermann

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SPD identification	Ordering code	Earthing system	Construction		Poles
<b>V20-1-385</b>	5095191	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 350V$ )	Plug-in unit (MOV) + 1 Pole socket		1
<b>V20-2-385</b>	5095192	TN-C ( $U_0 \leq 350V$ )	2x Plug-in units (MOV) + 2 Pole socket - L1/L2-PEN		3
<b>V20-2+FS-385</b>	5095302	TN-C ( $U_0 \leq 350V$ )	2x Plug-in units (MOV) + 2 Pole socket + RC - L1/L2-PEN		3
<b>V20-3-385</b>	5095193	TN-C ( $U_0 \leq 350V$ )	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN		3
<b>V20-3+FS-385</b>	5095303	TN-C ( $U_0 \leq 350V$ )	3x Plug-in units (MOV) + 3 Pole socket + RC - L1/L2/L3-PEN		3
<b>V20-4-385</b>	5095194	TN-S ( $U_0 \leq 350V$ )	4x Plug-in units (MOV) + 4 Pole socket - L1/L2/L3/N-PE		4
<b>V20-4+FS-385</b>	5095304	TN-S ( $U_0 \leq 350V$ )	4x Plug-in units (MOV) + 4 Pole socket + RC - L1/L2/L3/N-PE		4
<b>V20-1+NPE-385</b>	5095271	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
<b>V20-3+NPE-385</b>	5095273	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-3+NPE+FS-385</b>	5095353	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-1-320</b>	5095171	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	Plug-in unit (MOV) + 1 Pole socket		1
<b>V20-1+FS-320</b>	5095291	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	Plug-in unit (MOV) + 1 Pole socket + RC		1
<b>V20-3-320</b>	5095173	TN-C ( $U_0 \leq 230/400V$ )	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN		3
<b>V20-3+FS-320</b>	5095293	TN-C ( $U_0 \leq 230/400V$ )	3x Plug-in units (MOV) + 3 Pole socket + RC - L1/L2/L3-PEN		3
<b>V20-1+NPE-320</b>	5095261	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2poliger Sockel)	L-N: MOV N-PE: GDT	2
<b>V20-1+NPE+FS-320</b>	5095341	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2 Pole socket + RC)	L-N: MOV N-PE: GDT	2
<b>V20-3+NPE-320</b>	5095263	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-3+NPE+FS-320</b>	5095343	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4

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<b>V20-1-280</b>	5095161	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	Plug in-unit (MOV) + 1 Pole socket		1
<b>V20-1+FS-280</b>	5095281	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	Plug-in unit (MOV) + 1 Pole socket + RC		1
<b>V20-2-280</b>	5095162	TN-C ( $U_0 \leq 230/400V$ )	2x Plug-in units (MOV) + 2 Pole socket - L1/L2-PEN		3
<b>V20-2+FS-280</b>	5095282	TN-C ( $U_0 \leq 230/400V$ )	2x Plug-in units (MOV) + 2 Pole socket +RC - L1/L2-PEN		3
<b>V20-3-280</b>	5095163	TN-C ( $U_0 \leq 230/400V$ )	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN		3
<b>V20-3+FS-280</b>	5095283	TN-C ( $U_0 \leq 230/400V$ )	3x Plug-in units (MOV) + 3 Pole socket + RC - L1/L2/L3-PEN		3
<b>V20-4-280</b>	5095164	TN-S ( $U_0 \leq 230/400V$ )	4x Plug-in units (MOV) + 4 Pole socket - L1/L2/L3/N-PE		4
<b>V20-4+FS-280</b>	5095284	TN-S ( $U_0 \leq 230/400V$ )	4x Plug-in units (MOV) + 4 Pole socket + RC - L1/L2/L3/N-PE		4
<b>V20-1+NPE-280</b>	5095251	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
<b>V20-1+NPE+FS-280</b>	5095331	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2 Pole socket + RC)	L-N: MOV N-PE: GDT	2
<b>V20-2+NPE-280</b>	5095252	TN-S/TT ( $U_0 \leq 230/400V$ )	2+1 Circuit (3 Pole socket)	L1/L2-N: MOV N-PE: GDT	3
<b>V20-2+NPE+FS-280</b>	5095332	TN-S/TT ( $U_0 \leq 230/400V$ )	2+1 Circuit (3 Pole socket + RC)	L1/L2-N: MOV N-PE: GDT	3
<b>V20-3+NPE-280</b>	5095253	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-3+NPE+FS-280</b>	5095333	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4

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<b>V20-1-150</b>	5095151	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 230/400V$ )	Plug-in unit (MOV) + 1 Pole socket	1	
<b>V20-2-150</b>	5095152	TN-C ( $U_0 \leq 230/400V$ )	2x Plug-in units (MOV) + 2 Pole socket - L1/L2-PEN	3	
<b>V20-3-150</b>	5095153	TN-C ( $U_0 \leq 230/400V$ )	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN	3	
<b>V20-1+NPE-150</b>	5095231	TN-S/TT ( $U_0 \leq 230/400V$ )	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
<b>V20-2+NPE-150</b>	5095232	TN-S/TT ( $U_0 \leq 230/400V$ )	2+1 Circuit (3 Pole socket)	L1/L2-N: MOV N-PE: GDT	3
<b>V20-2+NPE+FS-150</b>	5095322	TN-S/TT ( $U_0 \leq 230/400V$ )	2+1 Circuit (3 Pole socket + RC)	L1/L2-N: MOV N-PE: GDT	3
<b>V20-3+NPE-150</b>	5095233	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-3+NPE+FS-150</b>	5095321	TN-S/TT ( $U_0 \leq 230/400V$ )	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
<b>V20-1-75</b>	5095141	TT → L-N TN → L-(PE)N, N-PE ( $U_0 \leq 60/104V$ )	Plug-in unit (MOV) + 1 Pole socket	1	
<b>V20-2-75</b>	5095142	TN-C ( $U_0 \leq 60/104V$ )	2x Plug-in units (MOV) + 2 Pole socket - L1/L2-PEN	3	
<b>V20-1+NPE-75</b>	5095221	TN-S/TT ( $U_0 \leq 60/104V$ )	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2

MOV .... Metal oxide varistor

GDT .... Gas discharge tube

RC.....Remote contact

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SPD – replacement plug	Ordering code	Information	U <sub>c</sub> [VAC]	Class II		U <sub>P</sub> [kV]
				I <sub>n</sub> [kA]	I <sub>max</sub> [kA]	
<b>V20-0-385</b>	5095368	MOV – replacement plug → for V20-...-385	385	20	40	≤ 1,7
<b>V20-0-320</b>	5095366	MOV – replacement plug → for V20-...-320	320	20	40	≤ 1,4
<b>V20-0-280</b>	5095364	MOV – replacement plug → for V20-...-280	280	20	40	≤ 1,3
<b>V20-0-150</b>	5095362	MOV – replacement plug → for V20-...-150	150	20	40	≤ 0,8
<b>V20-0-75</b>	5095360	MOV – replacement plug → for V20-...-75	75	20	40	≤ 0,5
<b>C20-0-255</b>	5095600	GDT – replacement plug → for all 1+1 und 3+1 units, N-PE mode only up to U <sub>0</sub> ≤ 230/400V systems	255	40	60	≤ 1,3

I<sub>total</sub> - values for the different SPD combinations:

SPD identification	Poles	I <sub>total</sub> [kA]
V20-2-...	2	80
V20-3-...	3	120
V20-4-...	4	160
V20-1+NPE-...	2	60
V20-2+NPE-...	3	60
V20-3+NPE-...	4	60

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