



ÖVE-CERTIFICATE

including the entitlement to use the Austrian Safety Mark



Certificate No.: **21593-002-01**

Valid from: 2022 02 18
until: 2024 02 18

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.**
Alsóráda 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): **3480-1796/20**

Österreichischer Verband für Elektrotechnik
Head of OVE Certification

T. Neumayer

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Dipl.-Ing. T. Neumayer

Wien, 2022 01 27



OVE 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 <https://akkreditierung-austria.gv.at>.



Manufacturer:

OBO Bettermann Hungary Kft.
Alsóráda 2
2347 Bugyi
Hungary

Factory location(s):

OBO Bettermann Hungary Kft.
Alsóráda 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 of the certified product(s) with the listed standards as defined by the **EU Low-Voltage Directive 2014/35/EU**. For the presumption of conformity according to Art. 12 with the safety objectives according to Art. 3 of the Directive, transitional periods given in the Official Journal of the European Union have to be observed.

Product: Surge protective device

Type designation:
Rating:

Trademark:

Series V50
backup fuse: 160 A gL/gG
I_{sc} = 50 kA
(not for N-PE mode with GDT replacement plug C50-0-255)
see type list

OBO Bettermann

Series V80
backup fuse: 160 A gL/gG
I_{sc} = 50 kA
(not for N-PE mode with GDT replacement plug C50-0-255)
see type list

OBO Bettermann

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SPD Identification	Ordering Code	Earthing system	Construction	Poles	
V50-1-385	5093572	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 350V$)	Plug-in unit (MOV) + 1 Pole socket	1	
V50-1+FS-385	5093578	TN-C ($U_0 \leq 350V$)	2x Plug-in units (MOV) + 2 Pole socket - L1/L2-PEN	1	
V50-3-385	5093574	TN-C ($U_0 \leq 350V$)	2x Plug-in units (MOV) + 2 Pole socket + RC - L1/L2-PEN	3	
V50-3+FS-385	5093580	TN-C ($U_0 \leq 350V$)	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN	3	
V50-1+NPE-385	5093584	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
V50-1+NPE+FS-385	5093590	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
V50-3+NPE-385	5093586	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-3+NPE+FS-385	5093592	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-1-320	5093540	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket	1	
V50-1+FS-320	5093546	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket + RC	1	
V50-3-320	5093542	TN-C ($U_0 \leq 230/400V$)	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN	3	
V50-3+FS-320	5093548	TN-C ($U_0 \leq 230/400V$)	3x Plug-in units (MOV) + 3 Pole socket + RC - L1/L2/L3-PEN	3	
V50-1+NPE-320	5093552	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
V50-1+NPE+FS-320	5093560	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket + RC)	L-N: MOV N-PE: GDT	2
V50-3+NPE-320	5093554	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-3+NPE+FS-320	5093562	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-1-280	5093500	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket	1	
V50-1+FS-280	5093502	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket + RC	1	

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V50-3-280	5093511	TN-C ($U_0 \leq 230/400V$)	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN		3
V50-3+FS-280	5093516	TN-C ($U_0 \leq 230/400V$)	3x Plug-in units (MOV) + 3 Pole socket +RC - L1/L2/L3-PEN		3
V50-4-280	5093513	TN-S ($U_0 \leq 230/400V$)	4x Plug-in units (MOV) + 4 Pole socket - L1/L2/L3/N-PE		4
V50-4+FS-280	5093518	TN-S ($U_0 \leq 230/400V$)	4x Plug-in units (MOV) + 4 Pole socket +RC - L1/L2/L3/N-PE		4
V50-1+NPE-280	5093522	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
V50-1+NPE+FS-280	5093531	TN-S/TT ($U_0 \leq 230/400V$)	1+1 Circuit (2 Pole socket + RC)	L-N: MOV N-PE: GDT	2
V50-2+NPE-280	5093524	TN-S/TT ($U_0 \leq 230/400V$)	2+1 Circuit (3 Pole socket)	L1/L2-N: MOV N-PE: GDT	3
V50-3+NPE-280	5093526	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-3+NPE+FS-280	5093533	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-1-150	5093440	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 120/208V$)	Plug-in unit (MOV) + 1 Pole socket		1
V50-1+FS-150	5093446	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 120/208V$)	Plug-in unit (MOV) + 1 Pole socket + RC		1
V50-3-150	5093442	TN-C ($U_0 \leq 120/208V$)	3x Plug-in units (MOV) + 3 Pole socket - L1/L2/L3-PEN		3
V50-3+FS-150	5093448	TN-C ($U_0 \leq 120/208V$)	3x Plug-in units (MOV) + 3 Pole socket +RC - L1/L2/L3-PEN		3
V50-1+NPE-150	5093452	TN-S/TT ($U_0 \leq 120/208V$)	1+1 Circuit (2 Pole socket)	L-N: MOV N-PE: GDT	2
V50-1+NPE+FS-150	5093460	TN-S/TT ($U_0 \leq 120/208V$)	1+1 Circuit (2 Pole socket + RC)	L-N: MOV N-PE: GDT	2
V50-3+NPE-150	5093454	TN-S/TT ($U_0 \leq 120/208V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V50-3+NPE+FS-150	5093462	TN-S/TT ($U_0 \leq 120/208V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4

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SPD Identification	Ordering Code	Earthing system	Construction		Poles
V80-1-385	5093820	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 350V$)	Plug-in unit (MOV) + 1 Pole socket		1
V80-1+FS-385	5093822	TN-C ($U_0 \leq 350V$)	Plug-in unit (MOV) + 1 Pole socket +RC		1
V80-3+NPE-385	5093830	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V80-3+NPE+FS-385	5093832	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4
V80-1-280	5093800	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket		1
V80-1+FS-280	5093802	TT → L-N TN → L-(PE)N, N-PE ($U_0 \leq 230/400V$)	Plug-in unit (MOV) + 1 Pole socket + RC		1
V80-3+FS-280	5093808	TN-C ($U_0 \leq 230/400V$)	3x Plug-in units (MOV) + 3 Pole socket +RC - L1/L2/L3-PEN		3
V80-3+NPE-280	5093810	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket)	L1/L2/L3-N: MOV N-PE: GDT	4
V80-3+NPE+FS-280	5093812	TN-S/TT ($U_0 \leq 230/400V$)	3+1 Circuit (4 Pole socket + RC)	L1/L2/L3-N: MOV N-PE: GDT	4

MOV Metal oxide varistor

GDT Gas discharge tube

RC Remote contact

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SPD – replacement plug	Ordering code	Information	U _c [VAC]	Class I		Class II		U _P [kV]
				I _{imp} [VAC]	I _n [kA]	I _{max} [kA]		
V50-0-385	5093510	MOV – replacement plug → for V50- ... 385	385	12,5	30	50	≤ 1,7	
V50-0-320	5093509	MOV – replacement plug → for V50- ... 320	320	12,5	30	50	≤ 1,4	
V50-0-280	5093508	MOV – replacement plug → for V50- ... 280	280	12,5	30	50	≤ 1,3	
V50-0-150	5093505	MOV – replacement plug → for V50- ... 150	150	12,5	30	50	≤ 0,8	
C50-0-255	5095609	GDT – replacement plug → for all 1+1, 2+1 and 3+1 units, N-PE mode only up to U ₀ ≤ 230/400V	255	50	50	80	≤ 1,5	
V80-0-385	5093875	MOV – replacement plug → for V80- ... 385	385	12,5	40	80	≤ 1,8	
V80-0-280	5093870	MOV – replacement plug → for V80- ... 280	280	12,5	40	80	≤ 1,4	

I_{total} - values for the different SPD combinations:

SPD identification	Poles	I _{total} [kA]	
		Class I	Class II
V50-2-...	2	25	80
V50-3-...	3	37,5	120
V50-4-...	4	50	160
V50-1+NPE-...	2	25	80
V50-2+NPE-...	3	37,5	80
V50-3+NPE-...	4	50	80
V80-3+NPE-...	4	50	80

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