

CERTIFICATE

KEMA No.: 2109002.01

Issued to:
Applicant:

OBO Bettermann GmbH & Co.
Hüingser-Ring 52
58694, MENDEN, Germany

Manufacturer/Licensee:

OBO Bettermann GmbH & Co.
Hüingser-Ring 52
58694, MENDEN, Germany

Product(s) : surge protective device
Trade name(s) : OBO
Type(s)/model(s) : V20-C

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

KEMA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61643-11:2002
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 900038

KEMA hereby grants the right to use the KEMA-KEUR certification mark.

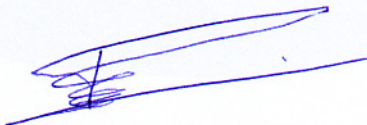
The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 4 December 2007 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.



P. Nabuurs
Managing director



F.S. Strikwerda
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	:	surge protective device
trade name(s)	:	OBO
type(s)	:	V20-C 75 Vac, V20-C 150 V AC, V20-C 280 V AC, V20-C 320 V AC, V20-C 335 V AC, V20-C 385 V AC, V20-C 440 V AC, V20-C 550 V AC
number of ports	:	one
SPD design topology	:	voltage limiting
SPD type (and test class)	:	2 (II)
max. continuous operating voltage (Uc)	:	see product data - type
voltage protection level (Up)	:	see product data - type
rated frequency	:	50/60 Hz
nominal discharge current (In 8/20 μ s)	:	see product data - type
maximum discharge current (Imax 8/20 μ s)	:	40 kA
maximum overcurrent protection	:	125 A gL/gG
short-circuit withstand (Ip)	:	25 kA
connection	:	solid/stranded, 2,5 - 35 mm ² flexible 2,5 - 25 mm ²
degree of protection	:	IP20

Product data - type V20-C 75 Vac

max. continuous operating voltage (Uc)	:	75 Vac
voltage protection level (Up)	:	< 0,5 kV
nominal discharge current (In 8/20 μ s)	:	15 kA

Product data - type V20-C 150 V AC

max. continuous operating voltage (Uc)	:	150 Vac
voltage protection level (Up)	:	< 0,8 kV
nominal discharge current (In 8/20 μ s)	:	20 kA

Product data - type V20-C 280 V AC

max. continuous operating voltage (Uc)	:	280 Vac
voltage protection level (Up)	:	< 1,3 kV
nominal discharge current (In 8/20 μ s)	:	20 kA

Product data - type V20-C 320 V AC

max. continuous operating voltage (Uc)	:	320 Vac
voltage protection level (Up)	:	< 1,4 kV
nominal discharge current (In 8/20 μ s)	:	20 kA

Product data - type V20-C 335 V AC

max. continuous operating voltage (Uc)	:	335 Vac
voltage protection level (Up)	:	< 1,4 kV
nominal discharge current (In 8/20 μ s)	:	20 kA

Product data - type V20-C 385 V AC

max. continuous operating voltage (Uc) : 385 Vac
voltage protection level (Up) : < 1,7 kV
nominal discharge current (In 8/20µs) : 20 kA

Product data - type V20-C 440 V AC

max. continuous operating voltage (Uc) : 440 Vac
voltage protection level (Up) : < 2,0 kV
nominal discharge current (In 8/20µs) : 20 kA

Product data - type V20-C 550 V AC

max. continuous operating voltage (Uc) : 550 Vac
voltage protection level (Up) : < 2,4 kV
nominal discharge current (In 8/20µs) : 15 kA

TESTS**Test requirements**

EN 61643-11:2002
A11:2007
IEC 61643-1:2005

Test results

The test results are laid down in KEMA test file 2109002.01 and are also based on NTR/AT 1681-A and TRF No. CTI-CB 624-1 to 624-5.

Remarks

This certificate replaces certificate 2025182.01 issued on January 30, 2003.

Conclusion

The examination proved that all test requirements were met.

Tested by : ÖVE

Checked by : C.C. Burger

**Factory locations**

OBO Bettermann GmbH & Co.,
Hüingser-Ring 52, 58694, MENDEN, Germany

OBO Bettermann Hungary Kft.,
Alsóráda 2, 2347, BUGYI, Hungary