

CERTIFICATE

Issued to:
Applicant:
Hager-Electro SAS
132 Boulevard d' Europe
67210 Obernai, France

Licensee:
Hager-Electro SAS
132 Boulevard d' Europe
67210 Obernai, France

Product : switch-disconnectors and change-over switches
Trade name(s) : HAGER
Type(s)/model(s) : SBM2xx x, SBx xxx x and SFx xxx x

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

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

- a type test according to the standard(s) EN IEC 60947-3:2021
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 900186

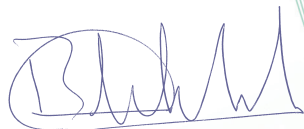
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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

This certificate is issued on 13 October 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-125608

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



MT Tonsi
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: switch-disconnectors and change-over switches
Trade name(s)	: HAGER
Type(s)/model(s)	: SBM2xx x, SBx xxx x and SFx xxx x
Utilisation category	: AC-22A
Rated frequency	: 50/60 Hz
Degree of protection	: IP2X without enclosure IP4X with enclosure
Method of mounting	: flush type, top hat rail
Terminals	: screw terminals
Applied types with signal lamps	: pattern 1 and 2; maximum rating 32 A

Product data – type SBM2xx x

Rated operational voltage (Ue)	: 230 Vac
Rated insulation voltage (Ui)	: 440 V
Rated operational current (Ie)	: 16 A, 25 A, 32 A
Conventional free air thermal current (Ith)	: 16 A, 25 A, 32 A
Rated impulse withstand voltage (Uimp)	: 6 kV
Rated short-time withstand current and duration (Icw)	: 240 A - 1 s (16 A) 375 A - 1 s (25 A) 480 A - 1 s (32 A)
Rated short-circuit making capacity (Icm)	: 338 A (16 A) 529 A (25 A) 677 A (32 A)
Number of poles	: 2-poles
Pattern number	: 2
Technical details	: see nomenclature breakdown

Product data – type SBx xxx x

Rated operational voltage (Ue)	: 230 Vac 400 Vac
Rated insulation voltage (Ui)	: 440 V
Rated operational current (Ie)	: 16 A, 25 A, 32 A, 40 A, 63 A, 80 A, 100 A, 125 A
Conventional free air thermal current (Ith)	: 16 A, 25 A, 32 A, 40 A, 63 A, 80 A, 100 A, 125 A
Rated impulse withstand voltage (Uimp)	: 6 kV
Rated short-time withstand current and duration (Icw)	: 240 A - 1 s (16 A) 375 A - 1 s (25 A) 480 A - 1 s (32 A) 600 A - 1 s (40 A) 945 A - 1 s (63 A) 960 A - 1 s (80 A) 1200 A - 1 s (100 A) 1500 A - 1 s (125 A)

Rated short-circuit making capacity (I _{cm})	: 338 A (16 A) 529 A (25 A) 677 A (32 A) 846 A (40 A) 1332 A (63 A) 1354 A (80 A) 1692 A (100 A) 2115 A (125 A)
Number of poles	: 1-pole, 2-poles, 3-poles, 4-poles
Pattern number	: 1, 2, 3, 03
Technical details	: see nomenclature breakdown

Product data – type SFx xxx x

Rated operational voltage (U _e)	: 230 Vac
Rated insulation voltage (U _i)	: 230 V
Rated operational current (I _e)	: 16 A, 25 A, 32 A, 40 A
Conventional free air thermal current (I _{th})	: 16 A, 25 A, 32 A, 40 A
Rated impulse withstand voltage (U _{imp})	: 4 kV
Rated short-time withstand current and duration (I _{cw})	: 240 A - 1 s (16 A) 375 A - 1 s (25 A) 480 A - 1 s (32 A, 40 A)
Rated short-circuit making capacity (I _{cm})	: 338 A (16 A) 529 A (25 A) 677 A (32 A, 40 A)
Number of poles	: 1-pole, 2-poles, 3-poles, 4-poles
Pattern number	: 6, 1+1, 6/2, 4, 4+4, 4+4+4, 4+4+4+4
Technical details	: see nomenclature breakdown

TESTS**Test requirements**

EN IEC 60947-3:2021

Test result

The test results are laid down in DEKRA test file 226594000.

Additional information

This certificate replaces certificate No. 71-106251 which we hereby declare invalid.

Conclusion

The examination proved that all requirements were met.

Factory locationHager Production Poland Sp. z o.o.
Ul. Fabryczna 10
43-100 Tychy, Poland

Nomenclature breakdown:**For example: SBN263N****SB.....: Modular load break disconnecter switch****N: Toggle color / light indicator**

N: grey toggle

R: red toggle

T: light indicator, connection on top

B: light indicator, connection on bottom

M : light indicator, connection top-bottom

2: Number of poles

1: 1 pole

2: 2 poles

3: 3 poles

4: 4 poles

63: Rated current

16: 16 A

25: 25 A

32: 32 A

33: 32 A in frame size up (based on 40-63 A frame size)

40: 40 A

41: 40 A in frame size up (based on 80-125 A frame size)

63: 63 A

64: 63 A in frame size up (based on 80-125 A frame size)

80: 80 A

90: 100 A

99: 125 A

N: Special Market

blanc: All countries

N: India range

P: China

For example: SBM216**SB.....: Switch****M: Modular switch, light indicator, connection top-bottom****2: Number of poles**

2: 2-poles

16: Rated current

16 : 16 A

25: 25 A

32: 32 A

For example: SFT440**SF.....: Changeover switch****T: Pattern number**

T: NO-NC	Top common point with centre off position; I-0-II
H: NO-NC	Top common point without centre off position; I-II
B: NO-NC	Bottom common point with centre off position; I-0-II
L: NO-NC	Bottom common point without centre off position; I-II
M: NO+NC	No common point without centre off position; I-II

4: Number of poles

- 1: 1 pole
- 2: 2 poles
- 3: 3 poles
- 4: 4 poles

40: Rated current

- 16: 16 A
- 25: 25 A
- 32: 32 A
- 40: 40 A

N: Special Market

- blanc: All countries
- N: India range
- P: China