

# CERTIFICATE

Issued to:  
Applicant:  
**ELECTRO KAVEH MANUFACTURING INDUSTRIAL  
GROUP CO.**  
**NO.7, 9-5TH, FLOOR-BLDG. NO.250-N. SAADI AVE**  
**11476 Tehran, Iran**

Product : Moulded-case circuit-breaker  
Trade name(s) : KAVEH  
Type(s)/model(s) : SGM3S-800H, SGM3S-800M, SGM3Si-800H and SGM3Si-800M

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 EN 60947-2:2017
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2165673
- the licensee is registered with the number 2926

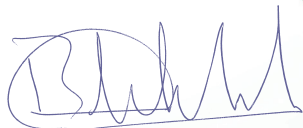
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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

This certificate is issued on 19 December 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-105419

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



H.R.M. Barends  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Moulded-case circuit-breaker
Trade name(s)	: KAVEH
Type(s)/model(s)	: SGM3S-800H, SGM3S-800M, SGM3Si-800H and SGM3Si-800M
Number of poles	: 3P and 4P (unprotected N pole)
Protected pole	: 3
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac
Rated insulation voltage (Ui)	: 800 Vac
Rated impulse withstand voltage (Uimp)	: 8 kV
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 400 A, 500 A, 630 A, 700 A, 800 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Suitable for isolation	: Suitable
Utilization category	: A
Safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 100 mm, Up / Down: 100 mm
Reference temperature	: 40 °C and 55 °C
Ambient temperature	: - 5 °C to 40 °C for reference temperature 40 °C - 5 °C to 40 °C and 55 °C for reference temperature 55 °C
Method of mounting	: Fixed
EMC environment	: A and B
Rated tightening torque for terminals	: 14 Nm
Line/load terminal	: Marked
Connection	: Copper conductor with cable lug
Inverse time delay release	: Thermal type, Ir = 0,8 In, 0,9 In, 1,0 In
Time setting of the inverse time delay release	: Fixed, trip time at 2 In: 3 min ≤ t ≤ 10 min
Instantaneous release	: Magnetic type, fixed, 2 poles in series: li = 10 In single pole: 12 In

**Product data – type SGM3S-800H**

Rated service short-circuit breaking capacity (Ics)	: 60 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 85 kA

**Product data – type SGM3S-800M**

Rated service short-circuit breaking capacity (Ics)	: 50 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 65 kA

**Product data – type SGM3Si-800H**

Rated service short-circuit breaking capacity (Ics)	: 60 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 85 kA

**Product data – type SGM3Si-800M**

Rated service short-circuit breaking capacity (Ics) : 50 kA  
Rated ultimate short-circuit breaking capacity (Icu) : 65 kA

**TESTS****Test requirements**

EN 60947-2:2017

**Test result**

The test results are laid down in DEKRA test file 331431800.

**Additional information**

Nomenclature breakdown:

SGM3S-800H/4300

a b c d

a = Model name: SGM3S or SGM3Si for different cover

b = Frame size: 800

c = short-circuit capacity: 'H' or 'M'

d = pole numbers, '4' means 4P MCCBs, '3' means 3P MCCBs

This certificate is based on certificate no. 33-106310 issued on 2018-11-27.

The product also complies with IEC0947-2:2016.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

The factory location is registered with the number 2926.