



CERTIFICATE

KEMA No.: 2116095.01

Issued to:
Applicant:

**Mitsubishi Electric Corporation
Fukuyama Works
1-8 Midori-Machi
720 8647, HIROSHIMA-PREFECTURE, Japan**

Manufacturer/Licensee:
**Mitsubishi Electric Corporation
Fukuyama Works
1-8 Midori-Machi
720 8647, HIROSHIMA-PREFECTURE, Japan**

Product(s) : air circuit breaker
Trade name(s) : MITSUBISHI
Type(s)/model(s) : AE4000-SW, AE5000-SW, AE6300-SW

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 60947-2:2006;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2116095

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: 6 August 2008 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	air circuit breaker
Trade name(s)	:	MITSUBISHI
Type(s)	:	AE4000-SW, AE5000-SW, AE6300-SW
Product data	:	
Number of poles	:	3 or 4 poles
Rated operational voltage (Ue)	:	415 Vac
Rated insulation voltage (Ui)	:	1000 Vac
Rated impulse withstand voltage (Uimp)	:	12 kV
Rated frequency	:	50 Hz
Suitable for isolation	:	Yes
Utilization category	:	B
Safety distance (screen-circuit breaker)	:	Back: 0 mm Front: 0 mm Top: 200 mm Bottom: 0 mm Left: 50 mm Right: 50 mm
Electrical control circuits	:	Yes, Rated control circuit voltage: AC / DC: 100-125 V, 200-240 V. Rated control supply voltage: AC / DC: 100-125 V, 200-240 V.
Shunt release	:	Yes, AC /DC 100-125 V, 200-240 V
Undervoltage release	:	Yes, AC /DC 100-125 V, 200-240 V
Degree of protection	:	N/A
Method of mounting	:	Withdrawable or fixed
Rated operational current (Ie)	:	4000 A, 5000 A, 6300 A
Conventional thermal current (Ith)	:	4000 A, 5000 A, 6300 A
Instantaneous release	:	Current settings: 2Ir - 10Ir (AE6300 - SW) 2Ir - 12Ir (AE5000 - SW) 2Ir - 16Ir (AE4000 - SW) Ir: 0,5 - 1,0 In (0,05 step)
Definite time delay	:	Current settings Isd (WS) : 1,5Ir - 10Ir Time settings Tsd (WS) : 0,06 s - 0,5 s +/- 20% at 1,5 Isd It operate between 0,04 - 0,08 s when set at 0,06 s
Inverse time delay release	:	Current settings Ir (WS) : 0,5In - 1,0 In Time setting TI (WS): 12 s - 150 s +/- 20% at 2 lu lu (Uninterrupted current): 0,8 - 1,0Ir (0,02 step)
Ground fault release	:	Current settings Ig: 0,1In - 1,0In Time delay Tg:<0,1 s - 3,0 s +/- 20% at 1,5 Ig
Rated ultimate short-circuit breaking capacity (Icu)	:	With INST: 130 kA / 415 Vac; With MCR: 100 kA / 415 Vac
Rated service short-circuit breaking capacity (Ics)	:	With ISNT: 130 kA / 415 Vac; With MCR: 100 kA / 415 Vac
Rated short-time withstand current (Icw)	:	100 kA, 1 s
Connecting capacity	:	AE4000-SW: 3 x 100 mm x 10 mm, copper bar AE5000-SW: 3 x 200 mm x 10 mm, copper bar AE6300-SW: 4 x 200 mm x 10 mm, copper bar

TESTS**Test requirements**

EN 60947-2:2006

IEC 60947-2:2006

Test result

The test results are laid down in KEMA test file 2116095.01 and are also based on CB certificate (No. CN9165) and TRF C009-CB2006CQC-08376 issued by CQC.

Conclusion

The examination proved that all test requirements were met.

Tested by

: Lambert Liu

Handwritten signature of Lambert Liu in black ink.

Checked by

: Eric Wang

Handwritten signature of Eric Wang in black ink.**Factory locations**

Mitsubishi Electric Corporation, Fukuyama Works

1-8 Midori-Machi, 720 8647, HIROSHIMA-PREFECTURE, Japan