

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **24 828 - 05 HH**

Company **Mitsubishi Electric Corporation
Fukuyama Works
1-8 Midori-Machi
Fukuyama-City, Hiroshima 720-8647, JAPAN**

Product Description **Air Circuit Breaker**

Type **AE630-SW, AE1000-SW, AE1250-SW, AE1600-SW, AE2000SWA**

Environmental Category **C**

Technical Data / Range of Application

Rated current I_n :	125 up to 2000 A
Rated operational voltage U_e :	690 V AC
Rated insulation voltage U_i :	1000 V
Rated frequency f_n :	50/60 Hz
Rated impulse withstand voltage U_{imp} :	12 kV
Utilization category :	B

Rated short-circuit capacity at 500 V AC	600 V AC	690 V AC	
I_{cm} :	143 kA	143 kA	143 kA
I_{cu} :	65 kA	65 kA	65 kA
I_{cs} :	65 kA	65 kA	65 kA
I_{cw} (1s):	65 kA	65 kA	65 kA

Release systems : **Electronic Trip Relay WS (LTD+ STD+ INST. / MCR)
Electronic Trip Relay WM (LTD+ STD+ INST. / MCR)
Electronic Trip Relay WB (INST. / MCR)**

Test Standard **Guidelines for the Performance of Type Tests Part 1, Edition 2003, EMC1
IEC60947-2 Edition 3.0 (2003)**

Documents **Test report : Mitsubishi Electric Corp. and TMT&D Corp., Seibu High Power Testing
Laboratory, dated 2004-11-04
EMC Test Report LEN046085 dated 2004-11-05
Environmental Test Report LEN040107 dated 2004-12-21**

Remarks **None**

Valid until **2015-02-24**

Page 1 of 1

Type Approval Symbol



File No. I.K.01

Hamburg, 2010-02-11

Germanischer Lloyd

W. Voß
Wolfgang Voß

T. Reimer
Thomas Reimer

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **24 829 - 05 HH**

Company **Mitsubishi Electric Corporation
Fukuyama Works
1-8 Midori-Machi
Fukuyama-City, Hiroshima 720-8647, JAPAN**

Product Description **Air Circuit Breaker**

Type **AE2000-SW, AE2500-SW, AE3200-SW, AE4000-SWA**

Environmental Category **C**

Technical Data / Range of Application
Rated current I_n : **625 up to 4000 A**
Rated operational voltage U_e : **690 V AC**
Rated insulation voltage U_i : **1000 V**
Rated frequency f_n : **50/60 Hz**
Rated impulse withstand voltage U_{imp} : **12 kV**
Utilization category : **B**

Rated short-circuit capacity at 500 V AC	600 V AC	690 V AC	
I_{cm} :	187 kA	165 kA	165 kA
I_{cu} :	85 kA	75 kA	75 kA
I_{cs} :	85 kA	75 kA	75 kA
I_{cw} (1s):	75 kA	75 kA	75 kA

Electronic Trip Relay Type **WS1, WS2, WS3 (LTD+STD+INST/ MCR, GFR)
WM1, WM2, WM3 (LTD+STD+INST/ MCR, GFR)
WB1, WB2, WB3 (INST/ MCR)**

Test Standard **Guidelines for the Performance of Type Tests Part 1, Edition 2003, EMC1
IEC60947-2 Edition 3.0 (2003)**

Documents **Test report : Mitsubishi Electric Corp. and TMT&D Corp., Seibu High Power Testing
Laboratory, dated 2004-11-12
EMC Test Report LEN046085 dated 2004-11-05
Environmental Test Report LEN040107 dated 2004-12-21**

Remarks **None**

Valid until **2015-02-24**

Page 1 of 1

Type Approval Symbol



File No. I.K.01

Hamburg, 2010-02-11

Germanischer Lloyd

W. Voß
Wolfgang Voß

T. Reimer
Thomas Reimer