Independent, accredited testing station ?Member laboratory of STL and LOVAG

TYPE TEST REPORT

NO. 2470.0518.7.361

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/2500-25	TYPE
072760	SERIAL NO.

RATED CHARACTERISTICS GIVEN BY THE CLIENT

Rated voltage	24	kV
Rated short-duration power-frequency withstand voltage	50	kV
Rated lightning impulse withstand voltage	125	kV
Rated normal current	2500	A
Rated frequency	50	Hz

IEC 62271-100: 2006-10	NORMATIVE DOCUMENT

RANGE OF TESTS PERFORMED

- Dielectric tests
- Measurement of the resistance of the main circuit
- Temperature-rise test
- Mechanical operation test at ambient temperature

13, 27, 30 July and 07 to 17 December 2007	DATE OF TEST
The ratings of the test object related to the scope of test have been proved. The tests have been PASSED.	TEST RESULT

RONALD BORCHERT
Head of low-voltage test laboratory

JENS HARING
Test engineer in charge

Berlin, 29 February 2008

IPH BERLIN INSTITUT PRÜFFELD FÜR ELEKTRISCHE HOCHLEISTUNGSTECHNIK GMBH

Independent test laboratory, accredited by Deutsche Akkreditierungsstelle Technik (DATech) e.V. in the fields of h.v. apparatus and switchgear, power cables and power cable accessories, l.v. apparatus and switchgear, installation equipment and switching and control equipment

Deutscher Akkreditierungs Rat DAR
DAT - P - 019/92

TYPE TEST REPORT

NO. 2470.0518.7.362

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/2500-25	TYPE
072759	SERIAL NO.

RATED CHARACTERISTICS GIVEN BY THE CLIENT

Rated voltage	U_r	24	kV
Rated normal current	I_r	2500	A
Rated frequency	f_r	50	Hz
Rated peak withstand current	I_p	63	kA
Rated short-time withstand current	I_k	25	kA
Rated duration of short-circuit	t_k	3	s
Rated operating sequence		O-0.3 s-CO-3 min-CO	
Rated short-circuit breaking current	I_{sc}	25	kA

IEC 62271-100: 2006-10	NORMATIVE DOCUMENT
• Short-time withstand current and peak withstand current tests • Short-circuit making and breaking tests	RANGE OF TESTS PERFORMED
19 July 2007	DATE OF TEST
The ratings of the test object related to the scope of test have been proved. The tests have been PASSED.	TEST RESULT

H. GLABSCH
Head of high-power test laboratory

M. THOM
Test engineer in charge

Berlin, 22 February 2008

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Deutscher Akkreditierungs Rat DAR
DAT - P - 019/92

TYPE TEST REPORT

NO. 2470.0518.7.363

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/2500-25	TYPE
072759	SERIAL NO.

RATED CHARACTERISTICS GIVEN BY THE CLIENT

Rated voltage	U_r	24	kV
Rated normal current	I_r	2500	A
Rated frequency	f_r	50	Hz
Rated peak withstand current	I_p	63	kA
Rated short-time withstand current	I_k	25	kA
Rated duration of short-circuit	t_k	3	s
Rated operating sequence		O-0.3 s-CO-3 min-CO	
Rated short-circuit breaking current	I_{sc}	25	kA
Class of electrical endurance test		E2	

IEC 62271-100: 2006-10	NORMATIVE DOCUMENT
Electrical endurance test	RANGE OF TESTS PERFORMED
14 August 2007	DATE OF TEST
The ratings of the test object related to the scope of test have been proved. The tests have been PASSED.	TEST RESULT

H. GLABSCH
Head of high-power test laboratory

M. THOM
Test engineer in charge

Berlin, 22 February 2008

INSTITUT PRÜFFELD FÜR ELEKTRISCHE HOCHLEISTUNGSTECHNIK GMBH IPH BERLIN

TYPE TEST REPORT

NO. 2470.0011.7.366

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/1250-25	TYPE
072754, 072757 and 072758	SERIAL NO.
Rated voltage 24 kV Rated short-duration power-frequency withstand voltage 50 kV Rated lightning impulse withstand voltage 125 kV Rated normal current 1250 A Rated frequency 50 Hz	RATED CHARACTERISTICS GIVEN BY THE CLIENT
IEC 62271-100: 2006-10	NORMATIVE DOCUMENT
• Dielectric tests • Measurement of the resistance of the main circuit • Temperature-rise test • Mechanical operation test at ambient temperature	RANGE OF TESTS PERFORMED
12 and 13 July 2007 and 30 November to 07 December 2007	DATE OF TEST
The ratings of the test object related to the scope of test have been proved. The tests have been PASSED.	TEST RESULT

RONALD BORCHERT
Head of low-voltage test laboratory

JENS HARING
Test engineer in charge

Berlin, 28 February 2008

INSTITUT „PRÜFFELD FÜR ELEKTRISCHE HOCHLEISTUNGSTECHNIK" GMBH IPH BERLIN

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Deutscher Akkreditierungs Rat DAR
DAT - P - 019/92

TYPE TEST REPORT

NO. 2470.0011.7.367

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/1250-25	TYPE
072754 and 072755	SERIAL NO.

RATED CHARACTERISTICS GIVEN BY THE CLIENT

Rated voltage	U_r	24	kV
Rated normal current	I_r	1250	A
Rated frequency	f_r	50	Hz
Rated peak withstand current	I_p	63	kA
Rated short-time withstand current	I_k	25	kA
Rated duration of short-circuit	t_k	3	s
Rated operating sequence		O-0.3 s-CO-3 min-CO	
Rated short-circuit breaking current	I_{sc}	25	kA
Rated cable-charging breaking current	I_c	31.5	A
Rated single-capacitor bank breaking current	I_{sb}	400	A

IEC 62271-100: 2006-10 — NORMATIVE DOCUMENT

RANGE OF TESTS PERFORMED

- Short-time withstand current and peak withstand current tests
- Short-circuit making and breaking tests
- Cable-charging current breaking test
- Single-capacitor bank switching test

13 July, 30 July, 31 July and 6 August 2007 — DATE OF TEST

The ratings of the test object related to the scope of test have been proved. The tests have been PASSED. — TEST RESULT

H. GLABSCH
Head of high-power test laboratory

M. THOM
Test engineer in charge

Berlin, 21 February 2008

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Deutscher Akkreditierungs Rat DAR
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TYPE TEST REPORT

NO. 2470.0011.7.368

GE Consumer & Industrial 1800 Cai Lun Road ZhangJiang Hi-Tech Park Shanghai, China	CLIENT
Xiamen Huadian Switchgear Co., Ltd. 453 Malong Road, Xiamen, Fujian P.R. China	MANUFACTURER
Medium-voltage AC circuit-breaker	TEST OBJECT
SecoVac 24/1250-25	TYPE
072754	SERIAL NO.

RATED CHARACTERISTICS GIVEN BY THE CLIENT

Rated voltage	U_r	24	kV
Rated normal current	I_r	1250	A
Rated frequency	f_r	50	Hz
Rated peak withstand current	I_p	63	kA
Rated short-time withstand current	I_k	25	kA
Rated duration of short-circuit	t_k	3	s
Rated operating sequence		O-0.3 s-CO-3 min-CO	
Rated short-circuit breaking current	I_{sc}	25	kA
Class of electrical endurance test		E2	

IEC 62271-100: 2006-10	NORMATIVE DOCUMENT
Electrical endurance test	RANGE OF TESTS PERFORMED
20 July and 30 July 2007	DATE OF TEST
The ratings of the test object related to the scope of test have been proved. The test has been PASSED.	TEST RESULT

H. GLABSCH
Head of high-power test laboratory

M. THOM
Test engineer in charge

Berlin, 21 February 2008

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