

Type Test Certificate No.: TY01006V

Test laboratory: Siemens AG, Testing Laboratories Berlin, Low-voltage switchgear

Manufacturer: Siemens AG Group A&D CD PD, 13629 Berlin

Product: Low-Voltage Power Circuit-Breaker (3 pole type)

Frame designation: WL4000H, WL5000H, WL6300H

Interrupting capacity: Class H

Trip unit designation: ETU25B (Rating Plugs from 1.250 A to 6.300 A)

Type designation: 3WL1340, 3WL1350, 3WL1363, & Z= A05 (1000 V styles)

Date(s) of Test(s): 2001-07-18 - 2001-09-14

Test specification: IEC 60947-2 (1995) and Corrigendum (1997) and Amendment 1 (1997)
EN 60947-2 (1996)

Test sequence(s):

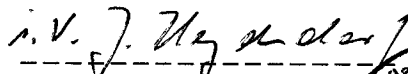
Test sequence I	sc. 8.3.3	General performance characteristics
Test sequence II	sc. 8.3.4	Rated service short-circuit breaking capacity ($I_{cs} = I_{cu}$)
Test sequence IV	sc. 8.3.6	Rated short-time withstand current
Individual pole	Annex H	Circuit-breakers for IT-Systems

Test results: The tested breakers have successfully passed the tests.

The Record of Proving Test consists of:

89 pages Type Test Certificate including:
50 oscillograms; 2 diagrams; 1 photographs

Signatures:


Jürgen Heydendorf




Thomas Keye

Date of issue: 2001-09-28

Note:

The test result relates only to the items tested.
The Type Test Certificate shall not be reproduced except
in full and without the written approval of the Test Laboratory.

ALPHA registered
Testing Laboratory D 12
Siemens AG
Testing Laboratories Berlin
- Low-voltage switchgear -
Nonnendammallee 104
D-13629 Berlin

Description and characterisation of the test object

Characteristics:

Type of circuit-breaker:

Number of poles	3
Kind of current	AC
Number of phases	3
Rated frequency	50 / 60 Hz
Utilisation category	B
Reference temperature	30 °C
Suitability for isolation	Yes

Rated and limiting values: (according to test volume)

Main circuit:

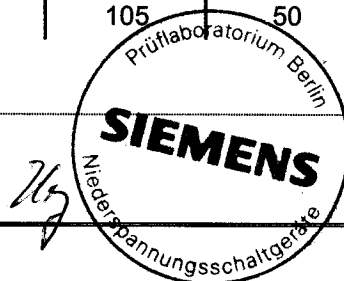
Rated impulse withstand voltage U_{imp}	12 kV
Rated insulation voltage U_i	1.000 V
Conventional thermal current I_{th} / I_{the}	1.250 A, 6.300 A
Rated current I_n	1.250 A, 6.300 A
Rated current in the neutral pole	n.a.

Short-circuit characteristics:

U_e / V	I_n / A	I_{cm} / kA	I_{cu} / kA	I_{cs} / kA	I_{cw} / kA	I_{IT} / kA
440	4000 / 5000	220	100	100	80 (1.0s) / 85 (0.5s)	50
440	6300	220	100	100	100 (1.0s)	50
690	4000 / 5000	187	85	85	80 (1.0s) / 85 (0.5s)	-
690	6300	187	85	85	85 (1.0s)	-
1.000	6.300	105	50	50	50 (1.0s)	-

Test laboratory:

Authorized representative



Date: 2001-09-28

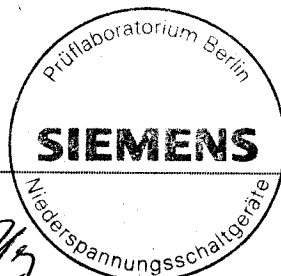
Control circuits:

Electrical control circuits:

Kind of current	AC
Rated frequency	50 / 60 Hz
Rated control circuit voltage U_c	230 V
Rated control supply voltage U_s	230 V
Rated impulse withstand voltage U_{imp}	2.5 kV
Rated insulation voltage U_i	250 V

Auxiliary circuits:

Rated operational voltage U_e	500 V
Rated impulse withstand voltage U_{imp}	4.0 kV
Rated insulation voltage U_i	500 V
Rated frequency	50 / 60 Hz
Rated operational current I_e	10 A (AC12)
Number of circuits	4
Number and kind of contact elements	2NO + 2NC



Test laboratory:

Authorized representative

Date: 2001-09-28

Releases:

Shunt release:

Rated control circuit voltage U_c	230 V
Kind of current	AC
Rated frequency if a.c.	50 / 60 Hz

Undervoltage or no-voltage release:

Rated control circuit voltage U_c	208 - 240 V
Kind of current	AC
Rated frequency if a.c.	50 / 60 Hz

Over-current release:

Short-circuit release

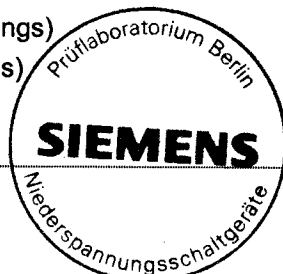
- instantaneous release > 20 x I_n , max. 50 kA
- definite time-delay release settable

Rated current I_n (min., max.)	1.250 A, 6.300 A
Kind of current	AC
Rated frequency if a.c.	50 / 60 Hz
Current setting (or range of settings)	(0.4 - 1.0) x I_n
Short time pickup current	(1.25 - 12) x I_R
Time setting (or range of settings)	(0 - 400) ms

Overload release (IEC 60947-1;2.4.30):

- instantaneous release No
- definite time-delay release No
- inverse time-delay release Yes
 - dependent on ambient air temperature No
 - independent of ambient air temperature Yes

Reference temperature	30°C
Rated current I_n	1.250 A, 6.300 A
Kind of current	AC
Rated frequency if a.c.	50 / 60 Hz
Current setting (or range of settings)	(0.4 - 1.0) x I_n
Time setting (or range of settings)	const. ($T_c = 10s @ 6 x I_R$)



Test laboratory:

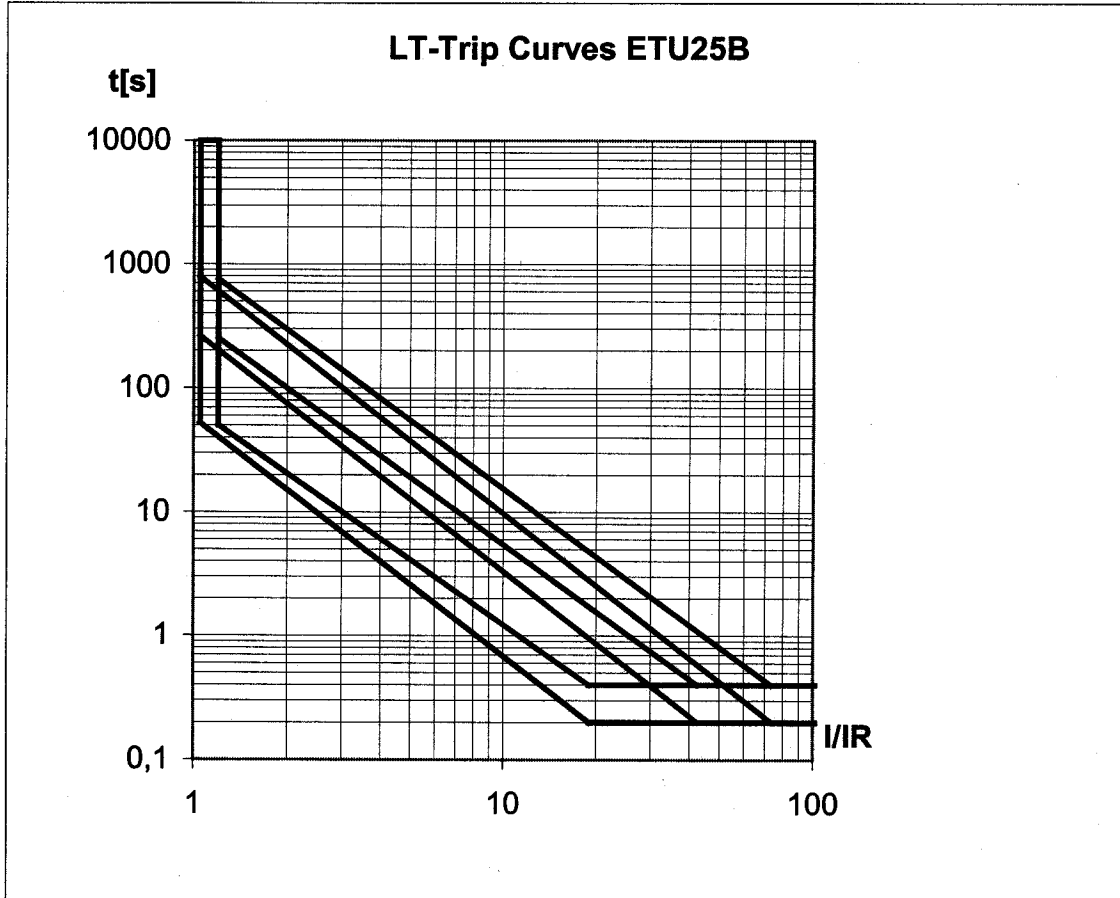
Authorized representative

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Date: 2001-09-28

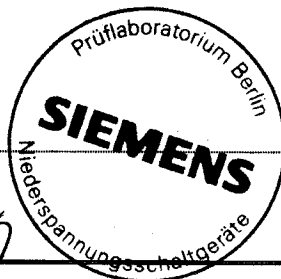
Time / current characteristics

Utilisation Category B



Test laboratory:

Authorized representative



Date: 2001-09-28

Safety perimeter defined:

0 mm behind the highest, widest,
deepest point of the breaker contour
of a withdrawable breaker

Kind of screen

perforated steel-grid
R6 T8.5; 1.5 mm

Size of holes ($\leq 30 \text{ mm}^2$)

1.8 mm²

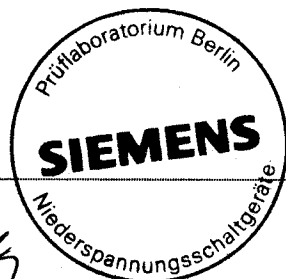
Distance during test

45 mm above the arc chamber @ I, II, IV, H

Openings around the manual operating means:

Openings in the area of the manual operating means
through which the arc chamber can be reached by a
music wire of 0.26 mm diameter.

not possible



Test laboratory:

Authorized representative

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