

TEST REPORT



IEC 60947-3

Low voltage switchgear and controlgear -

Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

Test Report

Reference No. : **12CA42165-SA00**

Tested by (+ signature) : John Fisher
ENGINEER

Approved by (+ signature) : R. A. Hills
SECTION MANAGER

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Contents : 36 pages

Laboratory details

Name : **UL International New Zealand Ltd**

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Test specification

Standard : IEC 60947-3 : 2012 Ed. 3.1
IEC 60947-1 : 2011 Ed. 5.1

Client details

Applicant : CLIPSAL MFG (M) SDN BHD.

Address : No 1 JALAN KAWAT 15/18, SEKSYEN 15,
SHAH ALAM, SELANGOR 40000,
MALAYSIA.

Product details (see additional details on page 3)

Type of test object : Weather Protected Surface Isolator Switch

Model/type reference : WHT35

Rating : 440 Vac, 35 A, M180, IP66

Accreditation details



All tests reported
herein have been
performed in accordance
with the laboratory's
scope of accreditation

TRF revision 121024

The issuance of this report in no way implies Listing, Classification or Recognition by UL and does not authorize the use of UL Listing, Classification or Recognition Marks or any other reference to UL on or in connection with the product or system. You cannot use this test data or UL's name or marks in connection with any product, packaging, advertising, promotion or marketing without UL's prior written permission. Please be informed that Underwriters Laboratories neither selected the sample nor determined whether the sample was representative of production samples. The test results apply only to the actual samples tested.



Possible results

Test case does not apply to the test object: N(.A.)

Test sample does meet the requirement.....: P(ass)

Test sample does not meet the requirement.....: F(ail)

General remarks

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

"(see appended results)" refers to results appended to the report.

The test results presented in this report relate only to the samples tested.

The test samples were provided by the client and were tested as submitted.

This report does not contain corrections or erasures.

All measurements within this test report are made using instruments with an accuracy in accordance with IECCE CTL Decision Sheet DSH 251B. Details of specific measurement uncertainty is available upon request.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

Specific remarks

These products are covered by this report.... WHT20, WHT35, WHD20, WHD35, WHS20 & WHS35.

All the testing was conducted on the WHT35

The construction of the additional models is the same with the differences being the WHT has three poles, the WHD has two poles and the WHS has a single pole.

The requirements for AC21A are fully covered by the testing to AC22A as these are harsher tests. AC23A testing was conducted at a different current rating and therefore tested separately.

Statement of results

The test samples were assessed to selected clauses of the test specification.

The test samples COMPLY with selected clauses of the test specification.



Product details

Method of operation	: Lever
Suitability for isolation	: Yes
Degree of protection	: IP66
Number of poles	: 1, 2 & 3
Kind of current	: AC
Number of positions (main contacts)	: 2
Rated operational voltage U_e	: 250 / 440 V
Rated insulation voltage (U_i)	: 250 / 500 V
Rated impulse withstand voltage (U_{imp})	: 4 kV
Conventional free air thermal current (I_{th})	: 20 & 35 A for AC21A and AC22A, 16 A for AC23
Conventional enclosed thermal current (I_{the})	: 20 & 35 A for AC21A and AC22A, 16 A for AC23
Rated operational current (I_e)	: 20 & 35 A for AC21A and AC22A, 16 A for AC23
Rated uninterrupted current (I_u)	: 20 & 35 A for AC21A and AC22A, 16 A for AC23
Rated frequency	: 50 Hz
Utilization category	: AC21A, AC22A, AC23A
Rated short-time withstand current (I_{cw})	: 1000 A _{RMS}
Rated short-time making capacity (I_{cm})	: 1700 A _{PEAK}
Product mass	: 470 grams
Product dimensions	: 80 mm (W) x 163 mm (L) x 86 mm (D)



Marking details

