ASTA

CERTIFICATE OF COMPLETE COMPLIANCE

Laboratory Ref. No. **8399** **Certificate No: 21414**
Part 1 of 2

APPARATUS: **Residual current operated circuit-breakers with integral overcurrent protection (RCBO's)**

DESIGNATION: **QOvs**

MANUFACTURER: **Schneider Electric Thailand Limited, 540 Soi 9 Bangpoo Industrial Estate, Sukhumvit Road, Muang District, Samutprakarn 10280, Thailand**

TESTED BY: **Intertek Testing Services Shanghai Ltd., Building No 86, 1198 Qinzhou Road (North), Shanghai, 200233, China**

DATE(S) OF TEST(S): **February to April 2013, February to April 2015 and March to April 2017**

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61009-1: 2010 + A1:2012 + A2:2013
IEC 61009-2-2: 1991
BS EN 61009-1: 2012 + A1: 2014 + A2: 2014 + A11: 2015 + A12: 2016
AS/NZS 61009.1: 2015

The results are shown in the report attached hereto. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated below

Ratings as detailed on page A.
****

The report applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the manufacturer.

This certificate comprises this front sheet 1 ratings page and 306 other pages as detailed on page B.

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any page(s) on which are stated the assigned rated characteristics of the apparatus tested, are permitted without written permission from Intertek Testing and Certification Services, Centre Court, Meridian Business Park, Leicester LE19 1WD, England. Contact asta@intertek.com. Tel +44 (0)116 263 0330.

ASTA Inspector
C P Stephens

Engineering Manager

26th October 2017 **Date**

ASTA Certificates, ASTA Licences and ASTA Test Reports
ASTA Certificates, ASTA Licences and ASTA Test Reports are issued by Intertek for the exclusive use of the party applying for the Certificate, Licence or Test Report and any related testing. Intertek assumes no liability to any parties other than those with which it has an agreement and then only in accordance with the agreed Terms and Conditions.
The Applicant is authorised to copy or distribute ASTA Certificates, ASTA Licences and ASTA Test Reports provided the entire contents are included, or Certificate Front Sheets accompanied by any associated pages on which are stated the assigned rated characteristics and no part is obscured or illegible, or Licence front sheets. Permission must be obtained from Intertek before any other kind of reproduction is made.
The holder of an ASTA Certificate may claim in Trade Journals, Catalogues, Technical Articles etc., and without the prior approval of Intertek that the product identified in an ASTA Certificate is ASTA Certified.
The holder of an ASTA Licence may claim in Trade Journals, Catalogues, Technical Articles etc., and without the prior approval of Intertek that the product identified in an ASTA Licence is ASTA Approved.
To minimise the possibility of any misunderstanding such claims must clearly identify the product(s) certified or approved, the ratings verified by ASTA and the Standard against which certification/approval has been made.
Any other use of the Intertek or ASTA names must first be approved in writing by Intertek. Test results and ratings proven by testing included in ASTA Certificates and ASTA Test Reports relate specifically to the sample(s) tested.

Types of ASTA Certificates
Certificates are issued when samples of a particular product design have been tested satisfactorily against the requirements of a National, European, International or ASTA Standard. Several forms of Certificate are available, including:

Certificate of Complete Compliance
Verifies compliance with all the requirements of a Standard

Certificate of Type/Verification Tests
Verifies complete series of type/verification tests prescribed in a Standard has been made successfully.

Certificate of Selected Type/Verification Tests
Verifies specified type/verification tests have been made successfully

Supplementary Certificate
Extends the scope of an existing Certificate to cover changes in rating or in design

ASTA Test Report
An ASTA Test Report is issued when tests otherwise satisfactory cannot be included in a Certificate for one or more reasons, e.g. verification of non-standard ratings

ASTA Licences and ASTA Diamond Mark
The use of the ASTA Diamond Mark on products is authorised by an ASTA Licence. Products covered by an ASTA Licence can be referred to as ASTA Approved. Requirements for ASTA Licences include testing for full compliance with relevant standards and satisfactory, on-going assessment of production. Validity and use of ASTA Licences are subject to compliance with Intertek Certification Regulations. For more information see http://intertek.com/europeaninspection

Short-Circuit Testing Liaison (STL)
Intertek (ASTA) is a member of the Short-Circuit Testing Liaison. For further details please refer to http://stl-liaison.org

Authenticity
Authenticity of any ASTA document can be confirmed by contacting the Intertek office detailed on the front of this document.

RECORD OF PROVING TESTS

Laboratory Reference No. 8399

ASTA

Date(s) of Test(s): February to April 2013,
February to April 2015 &
March to April 2017

RATINGS PAGE

Model	U_e (V)	I_{cn} (A)	$I_{\Delta n}$ (mA)	Type	Poles	FE Lead	Rated
QOvs	240	10000	30, 100	AC	1P	Yes	C6, C10, C16, C20, C25, C32, C40, C50
QOvs	240	10000	30	AC	1P	Yes	B6, B10, B16, B20, B25, B32, B40, B50
QOvs	240	10000	10, 30	AC	1P	No	C6, C10, C16, C20, C25, C32, C40, C50
QOvs	240	6000	10, 30	AC	1P	No	C6, C10, C16, C20, C25, C32, C40, C50

Characteristics

Time delay		: without
Method of operating		: dependent on line voltage
Number of poles		: single pole (one pole and uninterrupted neutral)
Protection against external influences		: unenclosed
Method of mounting		: flush distribution board
Method of connection		: bolt-on type
Instantaneous tripping current		: B/C
Rated current	(I_n)	: 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A
Rated residual operating current	($I_{\Delta n}$)	: 0.01A, 0.03A or 0.1A
Rated voltage	(U_n)	: 240V
Rated impulse withstand voltage	(U_{imp})	: 4kV
Rated frequency		: 50/60Hz
Rated short-circuit capacity	(I_{cn})	: 10000A or 6000A
Rated residual making & breaking capaciry	($I_{\Delta m}$)	: 7500A
Nature of supply		: a.c.
Type of terminal		: Plug-in type for L_{in} (plug in the base special for the RCBO) Terminals with stirrup for L_{out} & N_{out} Cable lead for N_{in}

ASTA Inspector
C P Stephens