



Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 61009-1</b> <b>Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)</b> <b>Part 1: General rules</b>	
<b>Report Number</b> ..... :	CN23ZQCX 001
<b>Date of issue</b> ..... :	2023-03-27
<b>Total number of pages</b> .....	196
<b>Name of Testing Laboratory preparing the Report</b> .....	Zhejiang Testing & Inspection Institute for Mechanical and Electrical Products Quality Co., Ltd. (ZTME) No 125 Miaohouwang Road Binjiang District Hangzhou, Zhejiang CHINA
<b>Applicant's name</b> .....	Zhejiang Tengen Electric Co., Ltd.
<b>Address</b> ..... :	Sulv Industrial Area, Liushi Town, Yueqing City, 325604 Zhejiang P.R. China
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 61009-1:2010, IEC 61009-1:2010/AMD1:2012, IEC 61009-1:2010/AMD2:2013 used in conjunction with <del>IEC 61009-2-1:1991</del> or IEC 61009-2-2:1991
<b>Test procedure</b> .....	CB Scheme
<b>Non-standard test method</b> .....	N/A
<b>TRF template used</b> ..... :	IECEE OD-2020-F1:2021, Ed.1.4
<b>Test Report Form No.</b> .....	IEC61009_1G
<b>Test Report Form(s) Originator</b> .... :	OVE
<b>Master TRF</b> .....	Dated 2021-10-07
<b>Copyright © 2021 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.</b>	
This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
<b>This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.</b>	
<b>General disclaimer:</b>	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test item description .....	RCBOs	
Trade Mark(s).....	<b>TENGEN</b>	
Manufacturer .....	Zhejiang Tengen Electric Co., Ltd.	
Model/Type reference .....	TGB1NLE-40HL;TGB1NLA-40HL	
Ratings .....	U <sub>e</sub> : AC230/240V(1P+N) 50/60 Hz; U <sub>i</sub> :500V; U <sub>imp</sub> :4kV; I <sub>n</sub> :10/16/20/25/32/40A; B-/C-/D- type; I <sub>Δn</sub> :30mA, 50 mA, 75 mA , 100mA, 300mA; Type A, Type AC for general type ; I <sub>Δm</sub> =I <sub>m</sub> =3000A; I <sub>cs</sub> =7.5kA; I <sub>cn</sub> =10kA; -25 to +50 °C	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	<b>Zhejiang Testing &amp; Inspection Institute for Mechanical and Electrical Products Quality Co., Ltd. (ZTME)</b>
Testing location/ address.....		No 125 Miaohouwang Road Binjiang District Hangzhou, Zhejiang CHINA
Tested by (name, function, signature) .....		Cai Yizhou (Tester) <i>Cai Yizhou</i>
Approved by (name, function, signature) ...:		Ma Lin (Approver) <i>Ma Lin</i>
<input type="checkbox"/>	<del>Testing procedure: CTF Stage 1:</del>	
<del>Testing location/ address.....</del>		
<del>Tested by (name, function, signature) .....</del>		
<del>Approved by (name, function, signature) ...:</del>		
<input type="checkbox"/>	<del>Testing procedure: CTF Stage 2:</del>	
<del>Testing location/ address.....</del>		
<del>Tested by (name + signature) .....</del>		
<del>Witnessed by (name, function, signature) ...:</del>		
<del>Approved by (name, function, signature) ...:</del>		
<input type="checkbox"/>	<del>Testing procedure: CTF Stage 3:</del>	
<input type="checkbox"/>	<del>Testing procedure: CTF Stage 4:</del>	
<del>Testing location/ address.....</del>		
<del>Tested by (name, function, signature) .....</del>		
<del>Witnessed by (name, function, signature) ...:</del>		
<del>Approved by (name, function, signature) ...:</del>		
<del>Supervised by (name, function, signature) ...:</del>		