

Zhejiang Tengen Electrics Co., Ltd.  
Tengen Industry Zone, Liushi,  
Yueqing, Zhejiang 325604  
P.R. China

Date : 19 June, 2014  
Our ref. : Z.H.B.

**Ref : Testing Report**

Type of Equipment : Miniature Circuit-breaker  
Model Designation : TGBZ-63  
Report No. : 14711538 001

Dear Ms. Li Li,

Please find enclosed your authorized copy of the Test Report for the above mentioned technical equipment.

For reference during factory inspection, please have it on hand at the factory on the day of the inspection.

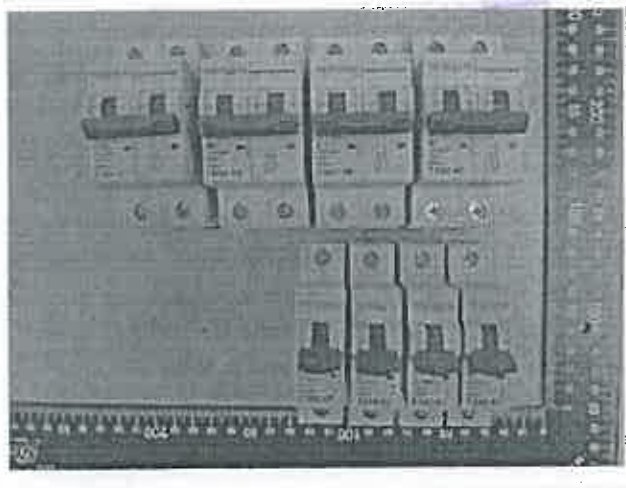
We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services. Pleased feel free to contact us whatever your requirements may be.

With kind regards,

Jane Hu  
Section Manager  
Components  
Commercial Products  
Greater China



Enclosure

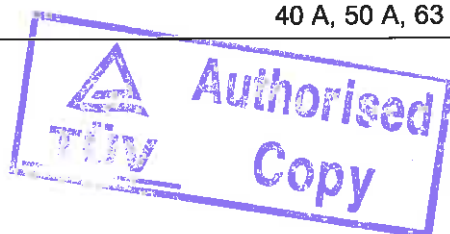
<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	14711538 001	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	1160006889	Seite 1 von 229 <i>Page 1 of 229</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	18.12.2013	
<b>Auftraggeber:</b> <i>Client:</i>	Zhejiang Tengen Electrics Co., Ltd Tengen Industry Zone, Liushi, Yueqing, Zhejiang 325604 P.R. China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Miniature Circuit-breaker			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	TGBZ-63			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	TÜV mark approval and CE-LVD			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	EN 60898-1: 2003+A1+A11+A12+A13 EN 60898-2: 2006			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	18.12.2013			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	See test report			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	18.12.2013 - 21.02.2014			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	See page 5			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	See test report			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von / tested by:</b>	21.02.2014 Hongbo Zhu / Trainee 21.02.2014 Chengjun Wang / PM	<b>kontrolliert von / reviewed by:</b>	2014.2.21 Jane Hu / TC	
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>
<b>Sonstiges / Other:</b>	<p>This report is based on CB test report (03601-A-13CB0094-S-A &amp; 03601-A-13CB0094-S-B) issued by China Quality Certification Centre according to IEC 60898-1: 2002 + A1: 2002 + A2: 2003 and IEC 60898-2: 2000 + A1: 2003. The EU deviation were checked, no additional tests were deemed necessary.</p> <p>This report includes two parts:</p> <p>1) 14711538 001 Part I: tests under AC power supply according to EN 60898-1: 2003+A1+A11+A12+A13</p> <p>2) 14711538 001 Part II: tests under DC power supply according to EN 60898-2: 2006</p>			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
<b>* Legende:</b>	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
<b>Legend:</b>	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

Geprüft und genehmigt  
(Reviewed and approved)  
2014.06.20  
TÜV Rheinland Group



**TEST REPORT  
IEC/EN 60898-1  
Circuit-breakers for over current protection for  
household and similar installations**

<b>Report Reference No.</b> .....	14711538 001 Part I
<b>Date of issue</b> .....	See cover page
<b>Total number of pages</b> .....	See cover page
<b>Testing Laboratory</b> .....	<b>TÜV Rheinland / CCIC (Ningbo) Co., Ltd.</b>
<b>Address</b> .....	3F, Building C13, R&D Park, No.32, Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China
<b>Applicant's name</b> .....	<b>Zhejiang Tengen Electrics Co., Ltd.</b>
<b>Address</b> .....	Tengen Industry Zone, Liushi, Yueqing, Zhejiang 325604 P.R. China
<b>Test specification:</b>	
<b>Standard</b> .....	EN 60 898-1: 2003 + A1:2004 + A11:2006 + A12:2008 + A13:2012
<b>Test procedure</b> .....	TÜV mark approval +CE-LVD
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IECEN60898_1C
<b>Test Report Form(s) Originator</b> .....	OVE
<b>Master TRF</b> .....	Dated 2007-12
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<b>This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.</b>	
If this Test Report Form is used by non-CCA members, the CIG logo and the reference to the CCA Procedure shall be removed.	
<b>This report is not valid as a CCA Test Report unless signed by an approved CCA Testing Laboratory and appended to a CCA Test Certificate issued by an NCB in accordance with CCA</b>	
<b>Test item description</b> .....	Miniature Circuit-breaker
<b>Trade Mark</b> .....	<b>TENGEN</b>
<b>Manufacturer</b> .....	Zhejiang Tengen Electrics Co., Ltd.
<b>Model/Type reference</b> .....	TGBZ-63
<b>Ratings</b> .....	Ue: AC230 V / 400 V (1P), AC400 V (2P); DC125 V (1P), DC250 V (2P); Ie: 1 A, 2 A, 3 A, 4 A, 5 A, 6 A, 10 A, 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A; Instantaneous tripping type: B, C; Ics=Icu: 6,0 kA



<b>Testing procedure and testing location:</b>	
<input checked="" type="checkbox"/> <b>Testing Laboratory:</b> Testing location/ address.....:	<b>Suzhou Electrical Apparatus Science Research Institute                  Stock Co., Ltd. (EETI)</b> No.7 Yonghe Street, Binhe Road, New District, Suzhou, China
<input type="checkbox"/> <b>Associated CB Laboratory:</b> Testing location/ address.....:	
Tested by (name + signature)..... : Approved by (+ signature) ..... :	
<input type="checkbox"/> Testing procedure: TMP Tested by (name + signature)..... : Approved by (+ signature) ..... : Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: WMT Tested by (name + signature)..... : Witnessed by (+ signature) ..... : Approved by (+ signature) ..... : Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: SMT Tested by (name + signature)..... : Approved by (+ signature) ..... : Supervised by (+ signature)..... : Testing location/ address.....:	
<input type="checkbox"/> Testing procedure: RMT Tested by (name + signature)..... : Approved by (+ signature) ..... : Supervised by (+ signature)..... : Testing location/ address.....:	

