



**TEST REPORT**  
**EN IEC 60947-4-1**  
**Low voltage switchgear and controlgear**  
**Part 4: Contactors and motor-starters**  
**Section 1 - Electromechanical contactors and motor-starters**

**Report Number..... :** (2021)FQIIDQCE-0251

**Date of issue..... :** 2021-12-31

**Total number of pages ..... :** 424

**Name of Testing Laboratory preparing the Report ..... :** Fujian Inspection and Research Institute for Product Quality (FQII)

**Applicant's name ..... :** Zhejiang Tengen Electrics Co.,Ltd.

**Address..... :** Sulv Industry Zone, Liushi Town, Yueqing City, Zhejiang Province, P.R.China

**Test specification:**

**Standard ..... :** EN IEC 60947-4-1:2019

**Test procedure ..... :**

**Non-standard test method ..... :** N/A

**Test Report Form No. .... :** IEC60947\_4\_1D

**Test Report Form(s) Originator .... :** DEKRA Certification B.V.

**Master TRF ..... :** Dated 2019-05-14

**Copyright © 2019 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.**


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.

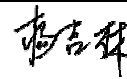
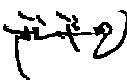
**This report is not valid as a CE Test Report unless signed by an approved CB Testing Laboratory and appended to a CE Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer:**

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

<b>Test item description .....</b>	AC Contactor
<b>Trade Mark .....</b>	
<b>Manufacturer.....</b>	Zhejiang Tengen Electrics Co.,Ltd./ Sulv Industry Zone, Liushi Town, Yueqing City, Zhejiang Province, P.R.China
<b>Model/Type reference.....</b>	TGCA-1811, TGCA-2211, TGCA-1811N, TGCA-2211N
<b>Ratings.....</b>	<p>Uimp:6kV;Ui:690V;lth:32A;  Ue:AC220/230V,AC380/400V,AC660/690V;  TGCA-1811:  AC-1:32A(AC220/230V,AC380/400V);  AC-3:18A/18A/12A(AC220/230V,AC380/400V,AC660/690V);  AC-4:7.7A/7.7A/3.8A(AC220/230V,AC380/400V,AC660/690V);  TGCA-2211:  AC-1:32A(AC220/230V,AC380/400V);  AC-3:22A/22A/14A(AC220/230V,AC380/400V,AC660/690V);  AC-4:8.5A/8.5A/4A(AC220/230V,AC380/400V,AC660/690V);  TGCA-1811N:  AC-1:32A(AC220/230V,AC380/400V);  AC-4:7.7A/7.7A/3.8A(AC220/230V,AC380/400V,AC660/690V);  TGCA-2211N:  AC-1:32A(AC220/230V,AC380/400V);  AC-4:8.5A/8.5A/4A(AC220/230V,AC380/400V,AC660/690V);  Utilization category:  AC-1(TGCA-1811, TGCA-2211, TGCA-1811N, TGCA-2211N),  AC-3(TGCA-1811, TGCA-2211),  AC-4(TGCA-1811, TGCA-2211, TGCA-1811N, TGCA-2211N);  Us:AC24V,AC36V,AC48V,AC110V,AC220V,AC380V,AC400V,  AC415V,50Hz;  AC24V,AC36V,AC48V,AC110V,AC220V,AC380V,AC400V,AC415V,  50/60Hz;  3P;  Auxiliary contact:1NO1NC;Uimp:6kV,Ui:690V,lth:10A;  AC-15:Ue/Ie:AC380V/0.95A,AC220V/1.6A;  DC-13:AC220V/0.15A.</p>

<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	Fujian Inspection and Research Institute for Product Quality(FQII)
<b>Testing location/ address.....:</b>		No. 121, Shan Tou Jiao, West Yang Qiao Road, Fuzhou, Fujian, P.R.China & No.101 Baozhen Road Mawei Economic Development Zone Fuzhou,Fujian,China
<b>Tested by (name, function, signature).....:</b>		Yang Jilin (Engineer) 
<b>Approved by (name, function, signature)....:</b>		Wei Yunming (Chief Engineer) 
<b>Testing procedure: CTF Stage 1:</b>		
<b>Testing location/ address.....:</b>		
<b>Tested by (name, function, signature).....:</b>		
<b>Approved by (name, function, signature)....:</b>		
<b>Testing procedure: CTF Stage 2:</b>		
<b>Testing location/ address.....:</b>		
<b>Tested by (name + signature) .....</b>		
<b>Witnessed by (name, function, signature) .:</b>		
<b>Approved by (name, function, signature)....:</b>		
<b>Testing procedure: CTF Stage 3:</b>		
<b>Testing procedure: CTF Stage 4:</b>		
<b>Testing location/ address.....:</b>		
<b>Tested by (name, function, signature).....:</b>		
<b>Witnessed by (name, function, signature) .:</b>		
<b>Approved by (name, function, signature)....:</b>		
<b>Supervised by (name, function, signature) :</b>		