



**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-0250

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

**Total number of pages** ..... : 430



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

**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

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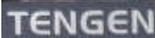
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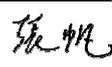
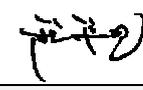
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|                                    |   |
|------------------------------------|---|
| <b>Test item description</b> ..... | AC Contactor  |
| <b>Trade Mark</b> .....            |    |
| <b>Manufacturer</b> .....          | Zhejiang Tengen Electrics Co.,Ltd./ Sulv Industry Zone, Liushi Town, Yueqing City, Zhejiang Province, P.R.China   |
| <b>Model/Type reference</b> .....  | TGCA-0911, TGCA-0911N, TGCA-1211, TGCA-1211N, TGCA-1611, TGCA-1611N   |
| <b>Ratings</b> .....               | Uimp:6kV;Ui:690V;Ue:AC220/230V,AC380/400V,AC660/690V;<br>TGCA-0911: lth:20A;<br>AC-1:20A(AC220/230V,AC380/400V);<br>AC-3:9A/9A/6.6A(AC220/230V,AC380/400V,AC660/690V);<br>AC-4:3.5A/3.5A/1.5A(AC220/230V,AC380/400V,AC660/690V);<br>TGCA-1211: lth:25A;<br>AC-1:25A(AC220/230V,AC380/400V);<br>AC-3:12A/12A/8.9A(AC220/230V,AC380/400V,AC660/690V);<br>AC-4:5A/5A/2A(AC220/230V,AC380/400V,AC660/690V);<br>TGCA-1611: lth:25A;<br>AC-1:25A(AC220/230V,AC380/400V);<br>AC-3:16A/16A/8.9A(AC220/230V,AC380/400V,AC660/690V);<br>AC-4:7.7A/7.7A/3.5A(AC220/230V,AC380/400V,AC660/690V);<br>TGCA-0911N: lth:20A;<br>AC-1:20A(AC220/230V,AC380/400V);<br>AC-4:3.5A/3.5A/1.5A(AC220/230V,AC380/400V,AC660/690V);<br>TGCA-1211N: lth:25A;<br>AC-1:25A(AC220/230V,AC380/400V);<br>AC-4:5A/5A/2A(AC220/230V,AC380/400V,AC660/690V);<br>TGCA-1611N: lth:25A;<br>AC-1:25A(AC220/230V,AC380/400V);<br>AC-4:7.7A/7.7A/3.5A(AC220/230V,AC380/400V,AC660/690V);<br>Utilization category:<br>AC-1(TGCA-0911, TGCA-0911N, TGCA-1211, TGCA-1211N, TGCA-1611, TGCA-1611N),<br>AC-3(TGCA-0911, TGCA-1211, TGCA-1611),<br>AC-4(TGCA-0911, TGCA-0911N, TGCA-1211, TGCA-1211N, TGCA-1611, TGCA-1611N);<br>Us:AC24V,AC36V,AC48V,AC110V,AC220V,AC380V,AC400V, AC415V,50Hz;<br>AC24V,AC36V,AC48V,AC110V,AC220V,AC380V,AC400V,AC415V, 50/60Hz;<br>3P;<br>Auxiliary contact: 1NO1NC;Uimp:6kV,Ui:690V,lth:10A;<br>AC-15:Ue/Ie:AC380V/0.95A,AC220V/1.6A;<br>DC-13:AC220V/0.15A. |

|   |  |   |
|---|--|---|
| <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 G. Road, Fuzhou, Fujian, P.R.China & No.101 Baozhen Road Mawei Economic Development Zone, Fuzhou,Fujian,China |
| <b>Tested by (name, function, signature).....:</b>  |  | Zhang Fan (Engineer)   |
| <b>Approved by (name, function, signature)....:</b>   |  | Wei Yunming (Chief Engineer)                                 |
| <hr/>   |  |   |
| <input type="checkbox"/>  | <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>   |  |   |
| <hr/>   |  |   |
| <input type="checkbox"/>  | <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>   |  |   |
| <hr/>   |  |   |
| <input type="checkbox"/>  | <b>Testing procedure: CTF Stage 3:</b> |   |
| <input type="checkbox"/>  | <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>  |  |   |

