



**TEST REPORT**  
**EN 60947-2**  
**Low-voltage switchgear and controlgear - Part 2: Circuit-breakers**

**Report Number** .....: (2026)MJDQ-CE0610-A  
**Date of issue** .....: 2026-02-10  
**Total number of pages**.....: 25

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

**Applicant's name** .....: Zhejiang Tengen Electric Co.,Ltd.  
**Address** .....: Sulv Industrial Area, Liushi Town, Yueqing City, Zhejiang Province, P.R.China

**Test specification:**

**Standard**.....: EN 60947-2:2017, EN 60947-2:2017/A1:2020, for use in conjunction EN 60947-1:2007, EN 60947-1:2007/A1:2011, EN 60947-1:2007/A2:2014  
**Non-standard test method** .....: N/A

**Test Report Form No.** .....: IEC60947\_2K  
**Test Report Form(s) Originator** ....: DEKRA Certification B.V.  
**Master TRF**.....: Dated 2023-09-14

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<b>Test item description</b> .....	Motor Circuit-breakers
<b>Trade Mark(s)</b> .....	TENGEN
<b>Manufacturer</b> .....	Zhejiang Tengen Electric Co.,Ltd./ Sulv Industrial Area, Liushi Town, Yueqing City, Zhejiang Province, P.R.China
<b>Model/Type reference</b> .....	TGD1-32
<b>Ratings</b> .....	<p> <math>U_i</math>: 690V; <math>U_{imp}</math>: 6kV;  <math>U_e</math>: AC230V/240V, AC400V/415V, AC440V, AC500V, AC690V;  <math>I_n</math>: 0.1A~0.16A, 0.16A~0.25A, 0.25A~0.4A, 0.4A~0.63A,  0.63A~1A, 1A~1.6A, 1.6A~2.5A, 2.5A~4A, 4A~6.3A, 6A~10A,  9A~14A, 13A~18A, 17A~23A, 20A~25A, 24A~32A;  Over-current Release Type: Thermo-magnetic;  Rated short circuit breaking capacity: see annex;  50/60Hz; Selectivity Category: A; 3P;  Class: 10A. </p> <p> Annex:  0.1~0.16A, 0.16~0.25A, 0.25~0.4A, 0.4~0.63A, 0.63~1A, 1~1.6A:  <math>I_{cs}=I_{cu}</math>:100kA(AC230V/240V, AC400V/415V, AC440V, AC500V,  AC690V);  1.6~2.5A, 2.5~4A:  <math>I_{cs}=I_{cu}</math>:100kA(AC230V/240V, AC400V/415V, AC440V, AC500V),  <math>I_{cu}</math>:3kA(AC690V) <math>I_{cs}</math>:2.25kA(AC690V);  4~6.3A:  <math>I_{cs}=I_{cu}</math>:100kA(AC230V/240V, AC400V/415V), 50kA(AC440V, AC  500V), <math>I_{cu}</math>:3kA(AC690V), <math>I_{cs}</math>:2.25kA(AC690V);  6~10A:  <math>I_{cs}=I_{cu}</math>:100kA(AC230V/240V, AC400V/415V), 15kA(AC440V),  10kA(AC500V), <math>I_{cu}</math>:3kA(AC690V), <math>I_{cs}</math>:2.25kA(AC690V);  9~14A, 13~18A:  <math>I_{cs}=I_{cu}</math>:100kA(AC230V/240V), <math>I_{cu}</math>:15kA(AC400V/415V )  <math>I_{cs}</math>:7.5kA(AC400V/415V),  <math>I_{cu}</math>:8kA(AC440V ) <math>I_{cs}</math>:4kA(AC440V), <math>I_{cu}</math>:6kA(AC500V )  <math>I_{cs}</math>:4.5kA(AC500V), <math>I_{cu}</math>:3kA(AC690V) <math>I_{cs}</math>:2.25kA(AC690V);  17~23A, 20~25A:  <math>I_{cs}=I_{cu}</math>:50kA(AC230V/240V), <math>I_{cu}</math>:15kA(AC400V/415V )  <math>I_{cs}</math>:6kA(AC400V/415V),  <math>I_{cu}</math>:6kA(AC440V ) <math>I_{cs}</math>:3kA(AC440V), <math>I_{cu}</math>:4kA(AC500V )  <math>I_{cs}</math>:3kA(AC500V), <math>I_{cu}</math>:3kA(AC690V) <math>I_{cs}</math>:2.25kA(AC690V);  24~32A:  <math>I_{cs}=I_{cu}</math>:50kA(AC230V/240V), <math>I_{cu}</math>:10kA(AC400V/415V )  <math>I_{cs}</math>:5kA(AC400V/415V),  <math>I_{cu}</math>:6kA(AC440V) <math>I_{cs}</math>:3kA(AC440V), <math>I_{cu}</math>:4kA(AC500V)  <math>I_{cs}</math>:3kA(AC500V), <math>I_{cu}</math>:3kA(AC690V) <math>I_{cs}</math>:2.25kA(AC690V). </p>