



Test Report issued under the responsibility of:



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



Report Reference No. ....: 00901-CB20 7CQC-075290
Date of issue .....: 2019-06-25
Total number of pages .....: 167

CB Testing Laboratory .....: Shanghai Testing & Inspection Institute for Electrical Equipment Co.,Ltd. (STIEE)

Address .....: 505 Wu Ning Rd. Shanghai 200063, P.R. CHINA

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

Address .....: Sulv Industry Zone,Liushi,Yueqing,Zhejiang,P.R.China

Test specification:

Standard.....: IEC 60947-2:2006 (Fourth Edition) + A1: 2009 + A2: 2013

Test procedure .....: CB scheme

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

Test Report Form No. ....: IEC60947\_2G

Test Report Form(s) Originator .....: DEKRA Certification BV

Master TRF .....: Dated 2013-11

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Test item description .....: Moulded Case Circuit Breaker

Trade Mark .....: TENGEN

Manufacturer .....: Zhejiang Tengen Electrics Co., Ltd.

Model/Type reference .....: TGM1N-630L/M/H,TGMD-630L/M/H,TGM1N-400L/M/H,TGMD-400L/M/H

Ratings .....: Ue: AC380/400/415V,AC660/690V;

In: TGM1N-400L/M/H,TGMD-400L/M/H: 250A,280A,300A,315A,320A,350A,380A,400A;

TGM1N-630L/M/H, TGMD-630L/M/H: 400A,450A,500A,550A,600A,630A;

<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	Shanghai Testing & Inspection Institute for Electrical Equipment Co.,Ltd. (STIEE)
<b>Testing location/ address.....:</b>		505 Wu Ning Rd. Shanghai 200063, P.R. CHINA
<b>Tested by (name + function + signature) .....</b>		Cui Tao/Engineer <span style="float: right;">崔涛</span>
<b>Approved by (name+ function + signature) .....</b>		Wei Qingyuan/Senior Engineer <span style="float: right;">魏庆媛</span>
<input type="checkbox"/>	<b>Testing procedure: TMP</b>	N/A
<b>Testing location/ address.....:</b>		N/A
<b>Tested by (name + signature).....:</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<input type="checkbox"/>	<b>Testing procedure: WMT</b>	N/A
<b>Testing location/ address.....:</b>		N/A
<b>Tested by (name + signature).....:</b>		N/A
<b>Witnessed by (name + signature) .....</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<input type="checkbox"/>	<b>Testing procedure: SMT</b>	N/A
<b>Testing location/ address.....:</b>		N/A
<b>Tested by (name + signature).....:</b>		N/A
<b>Approved by (name + signature) .....</b>		N/A
<b>Supervised by (name + signature)....:</b>		N/A

**Summary of testing:**

In case of alternative test programs for circuit breakers with a different number of poles, the following program is used:

- Programme 1 (three pole fully tested)
- Programme 2 (four pole fully tested)
- Alternative program not applicable

## Tests performed (name of test and test clause 1/2):

Type	Ue	In	Poles	Sequence
TGM1N-630L	AC690V	630A	4	I
TGM1N-400L	AC690V	400A	4	I
TGMD-630L	AC690V	630A	4	I
TGM1N-630L	AC415V	630A	4	II
TGM1N-400L	AC415V	250A	4	II
TGM1N-630L	AC690V	630A	4	II
TGM1N-630M	AC415V	630A	4	II
TGM1N-400M	AC415V	250A	4	II
TGM1N-630H	AC415V	630A	4	II
TGM1N-400H	AC415V	250A	4	II
TGM1N-630L	AC415V	630A	4	III
TGM1N-400L	AC415V	250A	4	III
TGM1N-630L	AC690V	630A	4	III
TGM1N-400L	AC451V	400A	4	III
TGMD-630L	AC415V	630A	4	III
TGMD-400L	AC415V	400A	4	III
TGM1N-630L	AC415V	630A	4	III(N)
TGM1N-400L	AC415V	250A	4	III(N)
TGM1N-630L	AC690V	630A	4	III(N)