

CE TEST REPORT

Application No.:CE2021CQC0303-012512

Report Ref. No.: CE-045-1C213818

Name of product: Miniature Circuit-breaker

Model: TGBK-40A,TGB1N-40A,TGB1N-40N,TGBK-40N

Name of Laboratory: Zhejiang Testing & Inspection
Institute for Mechanical and
Electrical Products Quality Co.,Ltd.



CHINA QUALITY CERTIFICATION CENTRE

Test Report issued under the responsibility of:
Zhejiang Testing & Inspection Institute for Mechanical And
Electrical Products Quality Co.,Ltd.

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

Report Reference No. CE-045-1C213818

Date of issue 30.05.2022

Total number of pages 93 pages

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

Address Sulv Industrial Area, Liushi Town, Yueqing City, Zhejiang Province,
P.R.China

Test specification:

Standard ☐ IEC 60898-1:2015+AMD1:2019 and/or

☒ EN 60898-1:2019

Test procedure ~~CB~~ CCA

Non-standard test method N/A

Test Report Form No. IEC/EN60898_1E

Test Report Form(s) DEKRA Certification B.V.

Originator

Master TRF Dated 2020-04-17

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Test item description Miniature Circuit-breaker

Trade Mark 

Manufacturer Zhejiang Tengen Smart Electrics Co.,Ltd.

Model/Type reference TGBK-40A,TGB1N-40A,TGB1N-40N,TGBK-40N

Ratings TGBK-40A,TGB1N-40A,TGB1N-40N,TGBK-40N

Ue:AC220V/230V/240V;Ui:500V;Uimp:4kV;In:6A,10A,16A,20A,25A,32A,40A;
Type:C,D;TGBK-40A,TGB1N-40A:Icn=Ics:4500A;TGB1N-40N,TGBK-40N:Icn=Ics:6000A;1P+N;50/60Hz

Testing procedure and testing location:		
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	Testing Laboratory:	Zhejiang Testing & Inspection Institute for Mechanical and Electrical Products Quality Co.,Ltd.
Testing location/ address		No. 125 Miaohouwang Road Binjiang District Hangzhou, Zhejiang CHINA
Tested by (name, function, signature)		Zhu Lin (Test engineer) <i>Zhu Lin</i>
Approved by (name, function, signature) ..		Ma Lin (Approver) <i>Malin</i>
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	N/A
Testing location/ address		N/A
Tested by (name, function, signature)		N/A
Approved by (name, function, signature) ..		N/A
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address		N/A
Tested by (name + signature)		N/A
Witnessed by (name, function, signature) .		N/A
Approved by (name, function, signature) ..		N/A
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	N/A
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	N/A
Testing location/ address		N/A
Tested by (name, function, signature)		N/A
Witnessed by (name, function, signature) .		N/A
Approved by (name, function, signature) ..		N/A
Supervised by (name, function, signature) :		N/A

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Photo documentation –90 pages

Summary of testing:

The type TGBK-40 is family circuit breaker of the same fundamental design. According to table C.3 of Annex A, following ratings products were subject relevant test accordingly.

Sample allocation and test items according to EN/IEC 60898-1

Test sample Rating			Test sequence									
Pole	Curve	In [A]	A1	A2	B	C1	C2	D0+D1	D0	E1	E2	E3
TGBK-40A/1P+N	D	40	1	3	3	3	3	3	-	3	-	3
TGBK-40A/1P+N	D	32	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	D	25	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	D	20	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	D	16	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	D	10	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	D	6	-	-	-	-	-	-	1	3	-	-
TGBK-40A/1P+N	C	40	-	-	3	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	32	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	25	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	20	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	16	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	10	-	-	-	-	-	-	1	-	-	-
TGBK-40A/1P+N	C	6	-	-	-	-	-	-	1	-	-	-
TGBK-40N/1P+N	D	40	1	-	-	-	-	-	-	3	-	-
TGBK-40N/1P+N	D	6	-	-	-	-	-	-	-	3	-	-