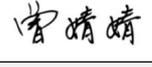




<p>TEST REPORT EN 60947-4-1 Low voltage switchgear and controlgear Part 4: Contactors and motor-starters Section 1 - Electromechanical contactors and motor-starters</p>	
Report Number.....	00901-CE2022CQC0305-012882
Date of issue.....	2023-05-23
Total number of pages.....	124
Name of Testing Laboratory preparing the Report.....	Shanghai Testing & Inspection Institute for Electrical Equipment Co. , Ltd. (STIEE)
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 IEC 60947-4-1:2019
Test procedure.....	CCA
Non-standard test method.....	N/A
Test Report Form No.....	60947_4_1D
Test Report Form(s) Originator.....	DEKRA Certification B.V.
Master TRF.....	Dated 2019-05-14
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<p>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.</p>	

Test item description..... :	Thermal overload relay	
Trade Mark..... :	TENGEN	
Manufacturer..... :	Zhejiang Tengen Electric Co.,Ltd./ Sulv Industrial Area, Liushi Town, Yueqing City, Zhejiang Province, P.R.China	
Model/Type reference..... :	TGR1-18,TGRH-18,TGRK-18	
Ratings..... :	See page 17	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	Testing Laboratory:	Shanghai Testing & Inspection Institute for Electrical Equipment Co. , Ltd. (STIEE)
	Testing location/ address..... :	505 Wu Ning Road Shanghai P. R. China
	Tested by (name, function, signature)..... :	Shen Dong/Engineer 
	Approved by (name, function, signature).... :	Zeng Jingjing/Senior engineer 
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
	Testing location/ address..... :	
	Tested by (name, function, signature)..... :	
	Approved by (name, function, signature)... :	
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
	Testing location/ address..... :	
	Tested by (name + signature)..... :	
	Witnessed by (name, function, signature).. :	
	Approved by (name, function, signature)... :	
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
	Testing location/ address..... :	
	Tested by (name, function, signature)..... :	
	Witnessed by (name, function, signature).. :	
	Approved by (name, function, signature)... :	
	Supervised by (name, function, signature) :	

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

Summary of testing:

Tests performed (name of test and test clause):

Main Testing(EN IEC 60947-4-1:2019)		
Test Sequence I		
TGR1-18 (#01)	12~18A	
TGR1-18 (#05)	9~13A	Only 9.3.3.2
TGR1-18 (#06)	7~10A	Only 9.3.3.2
TGR1-18 (#07)	5.5~8A	Only 9.3.3.2
TGR1-18 (#08)	4~6A	Only 9.3.3.2
TGR1-18 (#09)	2.5~4A	Only 9.3.3.2
TGR1-18 (#10)	1.6~2.5A	Only 9.3.3.2
TGR1-18 (#11)	1~1.6A	Only 9.3.3.2
TGR1-18 (#12)	0.63~1A	Only 9.3.3.2
TGR1-18 (#13)	0.4~0.63A	Only 9.3.3.2
TGR1-18 (#14)	0.25~0.4A	Only 9.3.3.2
TGR1-18 (#15)	0.16~0.25A	Only 9.3.3.2
TGR1-18 (#16)	0.1~0.16A	Only 9.3.3.2
Test Sequence III		
TGR1-18 (#02)	12~18A	
TGR1-18 (#03)	12~18A	

Testing location:

Shanghai Testing & Inspection Institute for Electrical Equipment Co. Ltd. (STIEE)/ 505 Wu Ning Road Shanghai P. R. China

Summary of compliance with National Differences (List of countries addressed):N/A

The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)