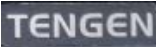


Test Report issued under the responsibility of:



TEST REPORT EN 60947-2 Low-voltage switchgear and controlgear - Part 2: Circuit-breakers	
Report Number.....:	(2021)FQIIDQ-0768
Date of issue.....:	2021-12-20
Total number of pages.....:	585
Name of Testing Laboratory preparing the Report.....:	Fujian Inspection and Research Institute for Product Quality (FQII)
Applicant's name	Zhejiang Tengen Smart Electrics Co.,Ltd.
Address	No.2777 West Zhongshan Road, Xiuzhou District, Jiaxing, Zhejiang Province, P.R.China
Test specification: Standard.....: EN 60947-2:2017/A1:2020 Test procedure	
CB Scheme Non-standard test method	
N/A Test Report Form No.: IEC60947_2J Test Report Form(s) Originator: DEKRA Certification B.V. Master TRF.....: Dated 2020-03-31	
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Test item description.....:	MCCB
Trade Mark(s)	
Manufacturer	Zhejiang Tengen Smart Electrics Co.,Ltd. / No.2777 West Zhongshan Road, Xiuzhou District, Jiaxing, Zhejiang Province, P.R.China
Model/Type reference	TGM1NE-100M,TGM1NE-100H,TGMKE-100M,TGMKE-100H, TGMGE-100M,TGMGE-100H,TGMHE-100M,TGMHE-100H; TGM1NE-125M,TGM1NE-125H,TGMKE-125M,TGMKE-125H, TGMGE-125M,TGMGE-125H,TGMHE-125M,TGMHE-125H; TGM1NE-160M,TGM1NE-160H,TGMKE-160M,TGMKE-160H, TGMGE-160M,TGMGE-160H,TGMHE-160M,TGMHE-160H
Ratings.....:	Uimp:8kV; Ui:1000V; Ue:AC380/400/415V, AC500/550V, AC660/690V;50/60Hz;Type of over-current release: Electronic; TGM1NE-100M,TGM1NE-100H,TGMKE-100M,TGMKE-100H, TGMGE-100M,TGMGE-100H,TGMHE-100M,TGMHE-100H: In:32A(Ir:12.5A-32A adjustable+OFF),63A(Ir:25A-63A adjustable+OFF) , 100A(Ir:40A-100A adjustable+OFF); TGM1NE-125M,TGM1NE-125H,TGMKE-125M,TGMKE-125H, TGMGE-125M,TGMGE-125H,TGMHE-125M,TGMHE-125H: In:32A(Ir:12.5A-32A adjustable+OFF),63A(Ir:25A-63A adjustable+OFF) , 125A(Ir:50A-125A adjustable+OFF); Type M: Ics:50kA,Icu:50 kA,Icw:2 kA /1s(AC380/400/415V), Ics:30kA,Icu:30 kA,Icw:2 kA /1s(AC500/550V), Ics:10kA,Icu:10 kA,Icw:2 kA /1s(AC660/690V); Type H: Ics:50kA,Icu:85 kA,Icw:2 kA /1s(AC380/400/415V), Ics:40kA,Icu:40 kA,Icw:2 kA /1s(AC500/550V), Ics:10kA,Icu:20 kA,Icw:2 kA /1s(AC660/690V); TGM1NE-160M,TGM1NE-160H,TGMKE-160M,TGMKE-160H, TGMGE-160M,TGMGE-160H,TGMHE-160M,TGMHE-160H: In:32A(Ir:12.5A-32A adjustable+OFF),63A(Ir:25A-63A adjustable+OFF) , 125A(Ir:50A-125A adjustable+OFF) , 160A(Ir:63A-160A adjustable+OFF); Type M: Ics:50kA,Icu:50 kA,Icw:2.5 kA /1s(AC380/400/415V), Ics:30kA,Icu:30 kA,Icw:2.5 kA /1s(AC500/550V), Ics:10kA,Icu:10 kA,Icw:2.5 kA /1s(AC660/690V); Type H: Ics:50kA,Icu:85 kA,Icw:2.5 kA /1s(AC380/400/415V), Ics:40kA,Icu:40 kA,Icw:2.5 kA /1s(AC500/550V), Ics:10kA,Icu:20 kA,Icw:2.5 kA /1s(AC660/690V); Selectivity category:A; 3P, 3P+N(3 protected poles with an uninterrupted neutral pole), 4P(3 protected poles with a switched neutral pole), 4P; 3P 4P: suitable for isolation; 3P+N: not suitable for isolation; Matching auxiliary contact:OF-M1/M2/M3,Uimp:4kV,Ui:690V;

OF-M1/M2:Ith:3A,
AC-15:AC380/400/415V/0.3A,DC-13:DC110/220/250V/0.15A;
OF-M3:Ith:6A,
AC-15:AC380/400/415V/1A,DC-13:DC110/220/250V/0.15A;
Alarm contact:SD-M1/M2/M3, Uimp:4kV,Ui:690V;
SD-M1/M2:Ith:3A,
AC-15:AC380/400/415V/0.3A,DC-13:DC110/220/250V/0.15A;
SD-M3:Ith:6A,
AC-15:AC380/400/415V/1A,DC-13:DC110/220/250V/0.15A;
Electronic accessory complying with annex N:
Motor-operators: Uimp:4kV;Ui:690V;
Us:AC220/230/240V,AC380/400/415V,50/60Hz;
Shunt release with prepayment:Uimp:4kV;Ui:690V;
Us: AC220/230/240V,50/60Hz;
Undervoltage release: Uimp:4kV;Ui:800V;
Us:AC220/230/240V,AC380/400/415V,50/60Hz;
Electronic shunt alarm accessory:Uimp:4kV;Ui:690V
Us:AC220/230/240V,AC380/400/415V,50/60Hz;DC24V
Overload alarm no trip accessory:
Us:AC220/230/240V,AC380/400/415V,50/60Hz;DC24V

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	Fujian Inspection and Research Institute for Product Quality(FQII)
Testing location/ address.....:		No. 121, Shan Tou Jiao, West Yang Qiao Road, Fuzhou, Fujian, P.R.China& Chuangxin Road Kuaian District,Mawei Economic Development Zone,Fuzhou,Fujian,P.R.China
Tested by (name, function, signature).....:		Yang Jilin (Engineer)
Approved by (name, function, signature)....:		Wei Yunming (Chief Engineer)
		
☐	Testing procedure: CTF Stage 1:	
Testing location/ address.....:		
Tested by (name, function, signature):		
Approved by (name, function, signature)....:		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address.....:		
Tested by (name + signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
☐	Testing procedure: CTF Stage 3:	
☐	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) :		