



Product Service

# CERTIFICATE

No. B 105620 0046 Rev. 00

**Holder of Certificate:** Zhejiang Tengen Electric Co., Ltd.  
Sulv Industrial Area, Liushi Town  
325604 Yueqing City  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** Contactors  
AC contactors

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 874102503237-00

**Valid until:** 2030-08-21

**Date,** 2025-08-22

( Hongbo Zhu )

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**Model(s):**

**TGCx-yyM/zz/gg/h/k, TGCx-yyM zz gg h k**

**‘x’ means product code, can be 1, A**

**‘yy’ means rated operational current for AC-3 at 380/400V, can be 06, 09, 12, 16;**

**06 means 6A,**

**09 means 9A,**

**12 means 12A,**

**16 means 16A.**

**‘zz’ means contact form, can be 04, 08 or Blank;**

**04 means four normal open,**

**08 means two normal open and two normal close,**

**Blank means three normal open.**

**‘gg’ means number of auxiliary contacts, can be Blank, 10 or 01;**

**Blank means without auxiliary contract,**

**10 means one normal open auxiliary contract,**

**01 means one normal close auxiliary contract.**

**‘h’ means coil type, can be Z or Blank;**

**Z means DC coil,**

**Blank means AC coil.**

**‘k’ means contractor type, can be N or Blank;**

**N means reversible contractor,**

**Blank means ordinary contractor.**

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## Parameters:

### Main circuits:

Rated insulation voltage $U_i$ :	690V
Rated impulse withstand voltage $U_{imp}$ :	6kV
Rated operational voltage $U_e$ :	AC220V/230V, AC380V/400V, AC660V/690V
Rated frequency:	50/60Hz
Rated operational current $I_e$ :	See table 1
Utilization category:	AC-1, AC-3, AC-4
Conventional free air thermal current $I_{th}$ :	20A
Rated conditional short-circuit current $I_q$ :	50kA
Type of co-ordination:	Type 2
Number of poles:	3, 4 poles
Pollution degree:	3
Protection degree:	IP20 (after installation)
Suitable for isolation:	Not suitable
Coil insulation class:	Class F
Rated control circuit supply voltage $U_s$ :	AC24V, AC36V, AC48V, AC110V, AC220V, AC380V, AC400V, AC415V, 50Hz; AC24V, AC36V, AC48V, AC110V, AC220V, AC250V, AC380V, AC400V, AC415V, 50/60Hz; DC12V, DC24V, DC48V, DC110V, DC220V

### Auxiliary circuits:

Rated insulation voltage $U_i$ :	690V
Rated impulse withstand voltage $U_{imp}$ :	6kV
Thermal current $I_{th}$ :	10A
Rated operational voltage $U_e$ :	AC220/230V, AC380/400V, DC220V
Rated operational current $I_e$ :	1.6A (for AC220/230V), 0.95A (for AC380/400V); 0.15A for (DC220V)
Utilization category:	AC-15, DC-13
Rated conditional short-circuit current:	1000A

**Tested according to:** EN IEC 60947-4-1:2019  
EN 60947-5-1:2017

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Table 1: rated parameters

Models	Utilization category	Ue	Ie
TGCx-06M/zz/gg/h, TGCx-06M zz gg h	AC-3	AC220/230V	6A
		AC380/400V	6A
		AC660/690V	3.8A
	AC-4	AC220/230V	2.6A
		AC380/400V	2.6A
		AC660/690V	1A
	AC-1	AC220/230380/400/660/690V	20A
TGCx-09M/zz/gg/h, TGCx-09M zz gg h	AC-3	AC220/230V	9A
		AC380/400V	9A
		AC660/690V	4.9A
	AC-4	AC220/230V	3.5A
		AC380/400V	3.5A
		AC660/690V	1.5A
	AC-1	AC220/230380/400/660/690V	20A
TGCx-12M/zz/gg/h, TGCx-12M zz gg h	AC-3	AC220/230V	12A
		AC380/400V	12A
		AC660/690V	4.9A
	AC-4	AC220/230V	5A
		AC380/400V	5A
		AC660/690V	2A
	AC-1	AC220/230380/400/660/690V	20A
TGCx-16M/zz/gg/h, TGCx-16M zz gg h	AC-3	AC220/230V	16A
		AC380/400V	16A
		AC660/690V	4.9A
	AC-4	AC220/230V	5A
		AC380/400V	5A
		AC660/690V	2A
	AC-1	AC220/230380/400/660/690V	20A



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TGCx-06M/zz/gg/hN, TGCx-06M zz gg h N	AC-4	AC220/230V	2.6A
		AC380/400V	2.6A
		AC660/690V	1A
	AC-1	AC220/230380/400/660/690V	20A
TGCx-09M/zz/gg/hN, TGCx-09M zz gg h N	AC-4	AC220/230V	3.5A
		AC380/400V	3.5A
		AC660/690V	1.5A
	AC-1	AC220/230380/400/660/690V	20A
TGCx-12M/zz/gg/hN, TGCx-12M zz gg h N, TGCx-16M/zz/gg/hN, TGCx-16M zz gg h N	AC-4	AC220/230V	5A
		AC380/400V	5A
		AC660/690V	2A
	AC-1	AC220/230380/400/660/690V	20A