



Product Service

CERTIFICATE

No. B 105620 0057 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

Test report no.: 874102505129-00

Valid until: 2031-01-07

Date, 2026-01-12

(Hongbo Zhu)

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Model(s):

TGCx-40yyz, TGCx-50yyz, TGCx-65yyz

'x' may be 1, G, JH, K stands for product code.

'yy' may be 11 or Omit, stands for auxiliary contacts form;

11 means 1NO+1NC.

'z' may be N or Blank, stands for contactor type;

N means reversible contactor,

Blank means ordinary contactor.

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, 2, 3
Utilization category:	See table 1, 2, 3
Conventional free air thermal current I_{th} :	50A (for TGCx-40yyz), 60A (for TGCx-50yyz), 80A (for TGCx-65yyz)
Rated conditional short-circuit current I_q :	50kA
Type of co-ordination:	Type 2
Number of poles:	3P
Pollution degree:	3
Protection degree:	IP20 (after installation)
Suitable for isolation:	Not suitable
Coil insulation class:	Class B
Rated control circuit supply voltage U_s :	AC24V, AC36V, AC48V, AC110V, AC220V, AC380V, AC400V, AC415V, AC480V; 50Hz, 50/60Hz

Auxiliary circuits:

Rated insulation voltage U_i :	690V
Rated impulse withstand voltage U_{imp} :	6kV
Conventional free air thermal current I_{th} :	10A

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Rated operational voltage U_e : AC220V, AC380V, DC220V
 Rated operational current I_e : 1.6A (for AC220V), 0.95A (for AC380V);
 0.15A (for DC220V)
 Utilization category: AC-15, DC-13
 Rated conditional short-circuit current: 1000A

Table 1: ratings of TGCx-40yyz series

Models	Utilization category	U_e	I_e
TGCx-40yy	AC-3	AC220/230V	40A
		AC380/400V	40A
		AC660/690V	34A
TGCx-40yy TGCx-40yyN	AC-4	AC220/230V	18.5A
		AC380/400V	18.5A
		AC660/690V	9A
	AC-1	AC220/230V	50A
		AC380/400V	50A
		AC660/690V	50A

Table 2: ratings of TGCx-50yyz series

Models	Utilization category	U_e	I_e
TGCx-50yy	AC-3	AC220/230V	50A
		AC380/400V	50A
		AC660/690V	39A
TGCx-50yy TGCx-50yyN	AC-4	AC220/230V	24A
		AC380/400V	24A
		AC660/690V	12A
	AC-1	AC220/230V	60A
		AC380/400V	60A
		AC660/690V	60A

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Table 3: ratings of TGCx-65yyz series

Models	Utilization category	U _e	I _e
TGCx-65yy	AC-3	AC220/230V	65A
		AC380/400V	65A
		AC660/690V	42A
TGCx-65yy TGCx-65yyN	AC-4	AC220/230V	28A
		AC380/400V	28A
		AC660/690V	14A
	AC-1	AC220/230V	80A
		AC380/400V	80A
		AC660/690V	80A

Tested according to: EN IEC 60947-4-1:2025
EN IEC 60947-5-1:2025