



Product Service

# CERTIFICATE

No. B 105620 0053 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.:** 874102505127-00

**Valid until:** 2030-12-23

**Date,** 2025-12-30

( Hongbo Zhu )

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## Model(s):

**TGCx-09yyz, TGCx-12yyz, TGCx-18yyz**  
**‘x’ may be 1, G, JH, K stands for product code.**  
**‘yy’ may be 10, 01 or Omit stands for auxiliary contacts;**  
     **10 means one normal open auxiliary contact,**  
     **01 means one normal close auxiliary contact.**  
**‘z’ may be N or Blank stands for contractor 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                                               |
| Utilization category:                            | See table 1                                               |
| Conventional free air thermal current $I_{th}$ : | 20A (for TGCx-09yyz, TGCx-12yyz),<br>25A (for TGCx-18yyz) |
| 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)                                 |

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Suitable for isolation: Not suitable  
 Coil insulation class: Class H  
 Rated control circuit supply voltage  $U_s$ : AC24V, AC36V, AC48V, AC110V, AC220V, AC380V, AC400V, AC415V, 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  
 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

Table 1: rated parameters

| Models    | Utilization category | $U_e$                  | $I_e$ |
|-----------|----------------------|------------------------|-------|
| TGCx-09yy | AC-3                 | AC220/230V, AC380/400V | 9A    |
|           |                      | AC660/690V             | 6.6A  |
|           | AC-4                 | AC220/230V, AC380/400V | 3.5A  |
|           |                      | AC660/690V             | 1.5A  |
|           | AC-1                 | AC220/230V, AC380/400V | 20A   |
| TGCx-12yy | AC-3                 | AC220/230V, AC380/400V | 12A   |
|           |                      | AC660/690V             | 8.9A  |
|           | AC-4                 | AC220/230V, AC380/400V | 5A    |
|           |                      | AC660/690V             | 2A    |
|           | AC-1                 | AC220/230V, AC380/400V | 20A   |

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Continuous

| Models     | Utilization category | U <sub>e</sub>            | I <sub>e</sub> |
|------------|----------------------|---------------------------|----------------|
| TGCx-18yy  | AC-3                 | AC220/230V,<br>AC380/400V | 18A            |
|            |                      | AC660/690V                | 12A            |
|            | AC-4                 | AC220/230V,<br>AC380/400V | 7.7A           |
|            |                      | AC660/690V                | 3.8A           |
|            | AC-1                 | AC220/230V,<br>AC380/400V | 25A            |
| TGCx-09yyN | AC-4                 | AC220/230V,<br>AC380/400V | 3.5A           |
|            |                      | AC660/690V                | 1.5A           |
|            | AC-1                 | AC220/230V,<br>AC380/400V | 20A            |
| TGCx-12yyN | AC-4                 | AC220/230V,<br>AC380/400V | 5A             |
|            |                      | AC660/690V                | 2A             |
|            | AC-1                 | AC220/230V,<br>AC380/400V | 20A            |
| TGCx-18yyN | AC-4                 | AC220/230V,<br>AC380/400V | 7.7A           |
|            |                      | AC660/690V                | 3.8A           |
|            | AC-1                 | AC220/230V,<br>AC380/400V | 25A            |

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