



Product Service

Attestation of Conformity

No. N8A 105620 0060 Rev. 00

Holder of Attestation: Zhejiang Tengen Electric Co., Ltd.

Sulv Industrial Area, Liushi Town

325604 Yueqing City

PEOPLE'S REPUBLIC OF CHINA

Product:

Contactors

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 64105213049206A

Date, 2026-01-07

Martin Ma

(Martin Ma)

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Model(s):

TGEVC1-aaabccdefg

TG denotes company characteristic code

EV denotes new energy

C denotes contactor

1 denotes design code

aaa denotes current, aaa can be 50, 100, 150, 200, 250, 300, 350, 400, 500, 600

50: Rated operational current is 50A

100: Rated operational current is 60A

150: Rated operational current only for the rating with rated voltage of 100VDC is 150A

200: Rated operational current only for the rating with rated voltage of 100VDC is 200A

250: Rated operational current only for the rating with rated voltage of 100VDC is 250A

300: Rated operational current only for the rating with rated voltage of 100VDC is 300A

350: Rated operational current only for the rating with rated voltage of 100VDC is 350A

400: Conventional free air thermal current is 400A

500: Conventional free air thermal current is 500A

600: Conventional free air thermal current is 600A

b denotes contact polarity, b can be W or blank

W: Without polarity

Blank: With polarity

cc denotes rated control supply voltage,

cc can be 12, 24, 48 or blank

12: 12VDC

24: 24VDC

48: 48VDC

Blank: 12-36VDC

d denotes energy-saving module, d can be P, K or blank

P: Dual-coil energy-saving panel

K: Wide voltage

Blank: Single coil, without energy-saving plate

e denotes auxiliary contact, e can be A, C or Z

A: 1NO

C: 1NC

Z: 1CO

f denotes coil lead-out method, f can be B or blank

B: Lead wire+terminal

blank: With lead wire

g denotes mounting type, g can be Y or blank

Y: Horizontal installation

Blank: Vertical installation

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Parameters:

Main circuit	
Utilization Category:	DC-1
Number of Poles:	1
Overvoltage Category:	II
Type of insulation between coil(s) and contacts	Basic insulation only for TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series, TGEVC1-100 series, TGEVC1-50 series N/A for TGEVC1-350 series, TGEVC1-300 series, TGEVC1-250 series, TGEVC1-200 series, TGEVC1-150 series
Pollution Degree:	2 specified by manufacturer for TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series, TGEVC1-350 series, TGEVC1-300 series, TGEVC1-250 series, TGEVC1-200 series, TGEVC1-150 series 3 (internal 2) for TGEVC1-100 series, TGEVC1-50 series
Rated prospective short-circuit current "r" (kA)	Same as I_q
Type of co-ordination	Type 2
Auxiliary circuit	
Number of circuits:	1 NO or 1NC or 1CO
Utilization category: (AC, DC, current and voltage):	DC-12 1A 30VDC for TGEVC1-350 series, TGEVC1-300 series, TGEVC1-250 series, TGEVC1-200 series, TGEVC1-150 series, TGEVC1-100 series, TGEVC1-50 series DC-13 2A 30VDC for TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series
Control circuit	
Rated control supply voltage U_s :	12/24/12-36VDC for TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series 12/24/48/12-36VDC for TGEVC1-350 series, TGEVC1-300 series, TGEVC1-250 series, TGEVC1-200 series, TGEVC1-150 series 12/24/48VDC for TGEVC1-100 series, TGEVC1-50 series

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Remark:

Table 1: Detail information for different models

Series	Rated insulation voltage U_i (V)	Rated operational voltage U_e (VDC)	Rated impulse withstand voltage U_{imp} (kV)	Rated operational current I_e (A)	Conventional free air thermal current I_{th} (A)	Rated conditional short-circuit current I_q
TGEVC1-600	1500	750	8	200	600	10kA specified by manufacturer
TGEVC1-500	1500	750	8	200	500	
TGEVC1-400	1500	750	8	200	400	
TGEVC1-350	250	100	2.5	350	500	18kA for rated current 500A, 3kA for rated current 15A specified by manufacturer
	1500	1500	8	15	15	
TGEVC1-300	250	100	2.5	300	500	
	1500	1500	8	15	15	
TGEVC1-250	250	100	2.5	250	500	
	1500	1500	8	15	15	
TGEVC1-200	250	100	2.5	200	500	
	1500	1500	8	15	15	
TGEVC1-150	250	100	2.5	150	500	5kA specified by manufacturer
	1500	1500	8	15	15	
TGEVC1-100	700	630	6	60	135	
TGEVC1-50	700	630	6	50	135	

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The below contact rating specified by manufacturer for TGEVC1-100 series, TGEVC1-50 series, TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series:

Item of test	Utilization category	Rated voltage	Rated current	Time constant	Number of operating cycles
For TGEVC1-100 series, TGEVC1-50 series					
Verification of rated making and breaking capacities	DC-1	700VDC	25A	1.05ms	50
Verification of conventional operational performance	DC-1	700VDC	25A	1.11ms	2000*
For TGEVC1-600 series, TGEVC1-500 series, TGEVC1-400 series					
Verification of rated making and breaking capacities	DC-1	1000VDC	150A	1.07ms	50
	DC-1	1200VDC	120A	1.05ms	50
	DC-1	1500VDC	100A	1.04ms	50
Verification of conventional operational performance	DC-1	1000VDC	150A	1.07ms	2000*
	DC-1	1200VDC	120A	1.05ms	2000*
	DC-1	1500VDC	100A	1.04ms	2000*
The numbers with “*” in this table stand for the numbers specified by manufacturer.					

The below resistive load specified by manufacturer for TGEVC1-350 series, TGEVC1-300 series, TGEVC1-250 series, TGEVC1-200 series, TGEVC1-150 series:

Test voltage	Test current	Type of load	Cycles	On/Off time	Ambient Temp.
1000VDC	300A	Resistive load	500breaks	1s/9s	85°C

**Tested
according to:**

EN IEC 60947-4-1:2019
EN 60947-1:2007/A2:2014
EN IEC 60947-1:2021
EN 60947-5-1:2017

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