

## TGEVC1

**Series High-voltage DC Contactor** 

#### **TGEVC1 Series High-voltage DC Contactor**

#### 1 Overview

The TGEVC1 series high-voltage DC contactor (hereinafter referred to as a contactor) has a contact cavity that is encapsulated with epoxy without arc leakage and fire and explosion; the arc extinguishing chamber of the contact is filled with inert gas to prevent contact oxidation, and the contact resistance works stably and reliably to cool the electric arc and reduce contact ablation when the contact is open. The contactor is primarily used in DC circuits with the voltage up to DC1500V and the current less than 600A to remotely turn on and turn off the circuit, and it is widely used in charging piles, new energy vehicles and energy storage systems.

#### 2 Type Designation

TG	EV	С	1	- 🗆		W					
- 1	- 1	- 1	- 1		- 1	- 1	- 1	- 1	- 1	- 1	- 1
1	2	3	4	5	6	7	8	9	10	11	12

1	Enterprise code	
2	New energy	
3	Contactor	
4	Design code	
5	Rated current (A):	30A ~ 600A (for specific current specifications, refer to the "Product Parameter Table");
6	Rated operating voltage:	H: 1000VDC; Default: 750VDC and below;
7	Contact polarity:	W: Non-polarity;
8	Coil voltage (VDC):	12V, 24V;
9	Coil drive mode and load end lead-out mode:	Default: Single coil, 200A and below internal thread products by default; K: Single coil with energy-saving board, 12 ~ 36VDC wide voltage products (the product below 200A shall be customized, and those with 200A and above are optional)
10	Aux. contact:	Default: No aux.; A: 1NO;
11)	Coil lead-out mode:	Default: With a lead-out wire; B: Lead-out wire + Terminal;
(12)	Installation method:	Default: Vertical installation Y: Horizontal installation

## **TGEVC1 Series High-voltage DC Contactor**

#### 3 Main Technical Parameters

Product model		1	GEVC1-30A			1	GEVC1-50	A		
Contact paramet	ers									
Contact form			1H		1H					
Main contactor voltage drop		≤80mV (l	Inder the rated	current)			≤80mV (l	Inder the rate	ed current)	
Rated operating current			30A					50A		
	30A		Long t	erm		50A		Long	term	
Withstand current	90A		308	3		75A		30	os	
	150A		108	3		250A		10	os	
Max. switching current		10 x le (	At 320VDC: Or	ne time)			10 x le (	At 320VDC: (	One time)	
Rated operating voltage			750VDC					750VDC		
Max. load voltage			1000VDC					1000VDC		
Mechanical life			2×10 <sup>5</sup> times		2×10⁵ times					
Electrical life		S	See the life curve							
Coil parameters (at23 ℃ )										
Rated operating voltage (VDC)	Pull – in voltage (VDC)	oltage voltage resistance operating Coil power				Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±5%) Ω	Rated operating current (A)	Coil power (W)
12	6~9	1 ~ 3.6	45	0.3		6~9	1 ~ 3.6	45	0.3	
24	12 ~ 18	2 ~ 7.2	167	0.15	3.6W	12 ~ 18	2 ~ 7.2	167	0.15	3.6W
Performance par	ameters									
Pull – in time			≤30mS			≤30mS				
Release time			≤12mS			≤12mS				
Bounce time			≤7mS			≤7mS				
Insulation resistance		Initial stat	e: 1000MΩ (at	1 kVDC)			Initial stat	e: 1000MΩ (a	at 1 kVDC)	
Dielectric	Between o	pen contacts	35	1	Between open 3500VAC 1min				n	
withstand voltage	Between c	ontact and	35	Between contact and coil 3500VAC 1min						
Shock	Destructive	e shock			Destructive shock 196m/s <sup>2</sup>					
Vibration		10H:	z ~ 500Hz 98n		$10$ Hz $\sim 500$ Hz $98$ m/s $^2$					
Weight			120g		120g					
Outline dimensions		51	1.3×37.2×48mn	1		51.3×37.2×48mm				

Product model		Т	GEVC1-100	)A			Т	GEVC1-100	)H		
Contact parameters											
Contact form			1H			1H					
Main contactor voltage drop		≤80mV (L	Inder the rate	ed current)		≤80mV (Under the rated current)					
Rated operating current			100A					100A			
	100A		Long	term		100A		Long	term		
Withstand current	140A		40	0S		140A		40	10S		
	180A		60	os		180A		60	08		
Max. switching current		10 x le (	At 320VDC: (	One time)			10 x le (	At 320VDC: (	One time)		
Rated operating voltage			750VDC					1000VDC			
Max. load voltage			1000VDC					1500VDC			
Mechanical life			2×10 <sup>5</sup> times					2×10 <sup>5</sup> times			
Electrical life		Se	ee the life cur	ve		750VDC	: 2×10 <sup>3</sup> tim	es 10	00VDC: 1×	10 <sup>3</sup> times	
Coil parameters (at2	3℃)										
Rated operating voltage (VDC)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±5%) Ω	Rated operating current (A)	Coil power (W)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±5%) Ω	Rated operating current (A)	Coil power (W)	
12	$6\sim 9$	$1\sim3.6$	26	0.5	6W	$6\sim 9$	$1\sim3.6$	26	0.5	6W	
24	12 ~ 18	2 ~ 7.2	96.4	0.25	OVV	12 ~ 18	2 ~ 7.2	96.4	0.25	OVV	
Performance parame	eters										
Pull – in time			≤30mS					≤30mS			
Release time	≤12mS							≤12mS			
Bounce time	≤7mS							≤7mS			
Insulation resistance	Initial state: 1000MΩ (at 1 kVDC)						Initial stat	e: 1000MΩ (a	at 1 kVDC)		
Dialantaia with at and	Between op	oen contacts	3	3500VAC 1mi	in	Between op	en contacts	3	3500VAC 1mi	in	
Dielectric withstand voltage		contact and oil	3	3500VAC 1mi	in	Between contact and coil 3500VAC 1min					
Shock	Destruct	ive shock		196m/s <sup>2</sup>		Destructive shock 196m/s <sup>2</sup>					
Vibration		10H:	z ~ 500Hz 98	3m/s <sup>2</sup>		$10$ Hz $\sim 500$ Hz $98$ m/s $^2$					
Weight			190g			190g					
Outline dimensions		53.	8×40.2×59.4	mm		53.8×40.2×59.4mm					
Aux. contact parame	eters										
Contact form		On	e normally o	pen		One normally open					
Contact material			Silver alloy			Silver alloy					
Contact load	Ith:	3A, AC -12	2: 125V/3A;	DC -12: 30	V/2A	Ith: 3A, AC -12: 125V/3A; DC -12: 30V/2A					
Min. load			5VDC 100m/	A		5VDC 100mA					
Contact resistance (initial value)			30mΩmax			30mΩmax					
Insulation resistance			100MΩmin					100MΩmin			
	Ве	Between terminals AC600V 50/60Hz 1min				Ве	tween termir	nals	AC600V 50	)/60Hz 1min	
Dielectric withstand voltage	Between	terminal and metal	uncharged		/ 50/60Hz nin	Between t	Between terminal and uncharged AC1500V & metal 1min				
	Between o	charged meta	l and earth		/ 50/60Hz nin	Between o	harged meta	l and earth	1	/ 50/60Hz nin	
Vibration		10-55Hz, D	ouble – ampl	itude 1.5mm			10-55Hz, D	ouble – ampl	itude 1.5mm		
Shock	Functio	nal shock re	sistance	294	m/s <sup>2</sup>	Functio	nal shock re	sistance	294	m/s <sup>2</sup>	
SHOCK	Destruc	tive shock re	sistance	980	m/s <sup>2</sup>	Destructive shock resistance 980 m/s <sup>2</sup>			m/s <sup>2</sup>		
Electrical life	Freque	ency: 1 min /	3 times	3x104	times	Freque	ency: 1 min /	3 times	3x104	times	
Mechanical life	Freque	ncy: 1 min / 6	30 times	1x106	imes :	Frequency: 1 min / 60 times 1x106 times				times	

## **TGEVC1 Series High-voltage DC Contactor**

Product model	TGEVC1-135A							GEVC1-138	5H	
Contact parameters										
Contact form			1H					1H		
Main contactor voltage drop	≤80mV (Under the rated current)					≤80mV (Under the rated current)				
Rated operating current			135A					135A		
	135A Long term					135A		Long	term	
Withstand current	200A		36	i0S		200A		36	60S	
	300A		60	OS		300A		60	0S	
Max. switching current		10 x le (/	At 320VDC: (	One time)			10 x le (/	At 320VDC: 0	One time)	
Rated operating voltage			750VDC					1000VDC		
Max. load voltage			1000VDC					1500VDC		
Mechanical life			2×10 <sup>5</sup> times					2×10 <sup>5</sup> times		
Electrical life		Se	ee the life cui	ve		750VDC	2: 2×10 <sup>3</sup> tim	es 10	00VDC: 1×	10 <sup>3</sup> times
Coil parameters (at 2	23℃)									
Rated operating voltage (VDC)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±10%) Ω	Rated operating current (A)	Coil power (W)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±10%) Ω	Rated operating current (A)	Coil power (W)
12	$\rm 6 \sim 9$	$1\sim3.6$	26	0.5	6W	$6\sim9$	1 ~ 3.6	26	0.5	6W
24	12 ~ 18	2 ~ 7.2	96.4	0.25	OVV	12 ~ 18	2 ~ 7.2	96.4	0.25	OVV
Performance parameters										
Pull – in time			≤30mS					≤30mS		
Release time	≤12mS							≤12mS		
Bounce time			≤7mS					≤7mS		
Insulation resistance		Initial state	e: 1000MΩ (a	at 1 kVDC)			Initial state	e: 1000MΩ (a	at 1 kVDC)	
Dielectric withstand	Between op	en contacts	3	3500VAC 1m	in	Between open contacts 3500VAC 1min				
voltage		contact and oil	3	3500VAC 1m	in	Between contact and coil 3500VAC 1min				in
Shock	Destructi	ive shock		196m/s <sup>2</sup>		Destructive shock 196m/s <sup>2</sup>				
Vibration		10Hz	$ m z\sim 500Hz$ 9	8m/s <sup>2</sup>		$10 \text{Hz} \sim 500 \text{Hz} \ 98 \text{m/s}^2$				
Weight			190g			190g				
Outline dimensions		53.	8×40.2×59.4	mm		53.8×40.2×59.4mm				
Aux. contact parame	ters									
Contact form		On	e normally o	pen		One normally open				
Contact material			Silver alloy			Silver alloy				
Contact load	Ith:	3A, AC -12	: 125V/3A;	DC -12: 30	V/2A	Ith:	3A, AC -12	: 125V/3A;	DC -12: 30'	V/2A
Min. load			5VDC 100m/	4		5VDC 100mA				
Contact resistance (initial value)			30mΩmax					30mΩmax		
Insulation resistance	100MΩmin							100MΩmin		
	Between terminals AC				)/60Hz 1min	Ве	tween termin	als	AC600V 50	)/60Hz 1min
Dielectric withstand voltage	Between terminal and uncharged metal			/ 50/60Hz nin	Between t	terminal and metal	uncharged		/ 50/60Hz nin	
Voltage	Between o	charged meta	I and earth		AC1500V 50/60Hz 1min		Between charged metal and earth AC1500V 50/60Hz			
Vibration	10-55Hz, Double – amplitude 1.5mm						10-55Hz, D	ouble – ampl	itude 1.5mm	
Chest	Functio	nal shock res	sistance	294	m/s <sup>2</sup>	Functio	nal shock res	sistance	294	m/s <sup>2</sup>
Shock	Destruc	tive shock re	sistance	980	m/s <sup>2</sup>	Destructive shock resistance			980	m/s <sup>2</sup>
Electrical life	Freque	ency: 1 min /	3 times	3x104	1 times	Freque	ency: 1 min /	3 times	3x104	times
Mechanical life	Freque	Frequency: 1 min / 60 times			times	Frequency: 1 min / 60 times 1			1x106	times

Product model	TGEVC1-150A						T	GEVC1-150	OH		
Contact parameters											
Contact form			1H			1H					
Main contactor voltage drop		≤80mV (L	Inder the rate	ed current)		≤80mV (Under the rated current)					
Rated operating current			150A					150A			
	150A		Long	term		150A		Long	term		
Withstand current	200A		36	0S		200A	<u> </u>				
	300A		60	os		300A		60	0S		
Max. switching current		10 x le (	At 320VDC: 0	One time)			10 x le (	At 320VDC: 0	One time)		
Rated operating voltage			750VDC					1000VDC			
Max. load voltage			1000VDC					1500VDC			
Mechanical life			2×10 <sup>5</sup> times					2×10⁵ times			
Electrical life		Se	ee the life cur	ve		750VDC	: 2×10³ tim	es 10	000VDC: 1×	10 <sup>3</sup> times	
Coil parameters (at 2	3℃)										
Rated operating voltage (VDC)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±10%) Ω	Rated operating current (A)	Coil power (W)	Pull – in voltage (VDC)	Release voltage (VDC)	Rated coil resistance (±10%) Ω	Rated operating current (A)	Coil power (W)	
12	6 ~ 9	1 ~ 3.6	26	0.5	CVA	$6\sim 9$	1 ~ 3.6	26	0.5	CVA/	
24	12 ~ 18 2 ~ 7.2		96.4	0.25	6W	12 ~ 18	2 ~ 7.2	96.4	0.25	6W	
Performance parame	eters										
Pull – in time			≤30mS					≤30mS			
Release time			≤12mS					≤12mS			
Bounce time			≤7mS					≤7mS			
Insulation resistance	Initial state: 1000MΩ (at 1 kVDC)						Initial stat	e: 1000MΩ (a	at 1 kVDC)		
Dielectric withstand	Between o	open	3	3500VAC 1m	in	Between open contacts 3500VAC 1n			3500VAC 1m	in	
voltage	Between o	contact and	3	3500VAC 1m	in	Between contact and coil		3	3500VAC 1m	in	
Shock	Destructiv	e shock		196m/s <sup>2</sup>		Destructive shock 196m/s <sup>2</sup>					
Vibration		10H:	z $\sim$ 500Hz 98	3m/s <sup>2</sup>		10Hz ~ 500Hz 98m/s <sup>2</sup>					
Weight			355g			355g					
Outline dimensions		69.	5×53.4×65.8	mm		69.5×53.4×65.8mm					
Aux. contact parame	ters										
Contact form		On	e normally of	pen		One normally open					
Contact material			Silver alloy			Silver alloy					
Contact load	Ith:	3A, AC -12	: 125V/3A;	DC -12: 30	V/2A	Ith: 3A, AC-12: 125V/3A; DC-12: 30V/2A					
Min. load			5VDC 100m/	A		5VDC 100mA					
Contact resistance (initial value)			30mΩmax			30mΩmax					
Insulation resistance			$100 M\Omega \text{min}$					100MΩmin			
	Between terminals		AC600V 50	)/60Hz 1min	Ве	tween termin	nals	AC600V 50	)/60Hz 1min		
Dielectric withstand voltage	Between t	terminal and metal	uncharged		/ 50/60Hz nin	Between terminal and uncharged AC1500V 50, metal 1min					
	Between o	charged meta	I and earth		/ 50/60Hz nin	Between o	harged meta	l and earth		/ 50/60Hz nin	
Vibration		10-55Hz, D	ouble – ampli	itude 1.5mm			10-55Hz, D	ouble – ampl			
Charle	Functio	nal shock re	sistance	294	m/s <sup>2</sup>	Functio	nal shock re	sistance	294	m/s <sup>2</sup>	
Shock	Destruc	tive shock re	sistance	980	m/s <sup>2</sup>	Destructive shock resistance 980 m/s <sup>2</sup>			m/s <sup>2</sup>		
Electrical life	Freque	ency: 1 min /	3 times	3x104	times	Freque	ency: 1 min /	3 times	3x104	times	
Mechanical life	Freque	ncy: 1 min / 6	30 times	1x106	times	Frequency: 1 min / 60 times 1x106 times					

## **TGEVC1 Series High-voltage DC Contactor**

Product model		TGE	/C1-200A			T	GEVC	1-250A		
Contact parameters										
Contact form			1H				1	Н		
Main contactor voltage drop		≤80mV (Under the rated current)								
Rated operating current			200A				25	0A		
	20	00A	Long	g term	25	250A		Long term		
Withstand current	30	00A	90	00S	35	60A		50	08	
	90	00A	20	00S	50	0A		18	08	
Max. switching current		10 x le (At 32	20VDC: One time)	)		2000A (A	At 320\	/DC: One time)		
Rated operating voltage		45	50VDC				450\	VDC		
Max. load voltage		90	00VDC				900	/DC		
Mechanical life		2×1	0 <sup>5</sup> times				2×10 <sup>5</sup>	times		
Electrical life	450VDC:	1×10⁴ times	750VDC:	1×10 <sup>3</sup> times	450VDC:	1×10⁴ tim	es	750VDC:	1×10 <sup>3</sup> times	
Coil parameters (at	23℃)									
Rated operating voltage (VDC)	Pull – in voltage (VDC)	Release voltage (VD0	Starting C) current (A)	Coil power (W)	Pull – in voltage (VDC)	Relea		Starting current (A)	Coil power (W)	
12	≤9	≥1	0.5		≤9	≥1		0.5		
24	≤18	≥2	0.25	6W	≤18	≥2		0.25	6W	
48	≤36	≥4	0.125		≤36	≥4		0.125		
Performance parameters										
Pull – in time		≤	30mS				≤30	mS		
Release time		<u> </u>	12mS				≤12	mS		
Bounce time				≤7ı	mS					
Insulation resistance		Initial state: 10	000MΩ (at 1 kVD0	C)		Initial state	e: 1000	MΩ (at 1 kVDC	)	
Dielectric withstand	Between ope	n contacts	3500VA	C 1min	Between ope contacts	Between open contacts		3500VAC 1	min	
voltage	Between conta	act and coil	3500VA	C 1min	Between contact and coil			3500VAC 1	min	
Shock	Destructive	e shock	196m	n/s <sup>2</sup>	Destructive shock 196m/s <sup>2</sup>			2		
Vibration		10Hz ∼	500Hz 98m/s <sup>2</sup>		$10$ Hz $\sim$ 500Hz $98$ m/s $^2$					
Weight			355g		470g					
Outline dimensions		69.5×5	3.4×65.8mm		80.5×63.9×72mm					
Aux. contact parame	eters									
Contact form		One no	rmally open		One normally open					
Contact material		Silv	er alloy		Silver alloy					
Contact load	Ith: 3A	A, AC -12: 12	25V/3A; DC -12:	30V/2A	Ith: 3A, AC -12: 125V/3A; DC -12: 30V/2A					
Min. load		5VD	C 100mA		5VDC 100mA					
Contact resistance (initial value)		30	mΩmax				30mΩ	Ωmax		
Insulation resistance		100	DMΩmin				100M	Ωmin		
	Between terminals		AC600V 5	0/60Hz 1min	Between	terminals		AC600V 50/60Hz 1min		
Dielectric withstand voltage		erminal and ed metal	AC1500V 5	60/60Hz 1min	Between to uncharg	erminal an	nd	AC1500V 5	0/60Hz 1min	
	Between char ea	ged metal and orth	AC1500V 5	60/60Hz 1min		Between charged metal and earth AC1500V 50/60Hz 1min			0/60Hz 1min	
Vibration	10	-55Hz, Doubl	e – amplitude 1.5ı	mm	10	)-55Hz, D	ouble -	- amplitude 1.5n	nm	
Shook	Functional sh	ock resistance	294	m/s <sup>2</sup>	Functional sh	ock resista	ance	294 m/s <sup>2</sup>		
Shock	Destructive sh	ock resistance	980	) m/s <sup>2</sup>	Destructive sh	ock resist	tance	980	m/s <sup>2</sup>	
Electrical life	Frequency: 1	min / 3 times	3x10-	4 times	Frequency: 1	min / 3 tii	mes	3x104	times	
Mechanical life	Frequency: 1	min / 60 times	1x10	6 times	Frequency: 1 min / 60 times 1x106 times			times		

#### 4 Normal Working Environment

4.1 Temperature: Normal operating temperature:  $-25^{\circ}$ C  $\sim +70^{\circ}$ C

Allowable limit operating temperature: -40°C  $\sim$  +80°C

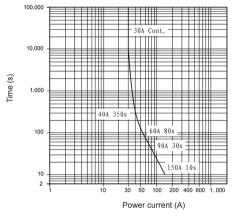
Storage temperature: 85°C max

4.2 Humidity: 5% ~ 85% RH (no icing and condensation)

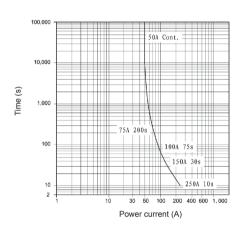
4.3 Atmospheric pressure: 86kPa ~ 106kPa

#### 5 Performance Curve

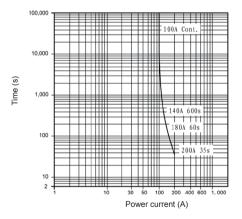
#### 5.1 Current Carrying Capacity Curve



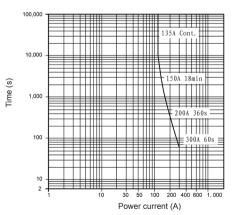
TGEVC1-30A



TGEVC1-50A

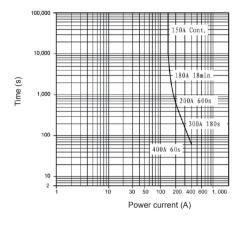


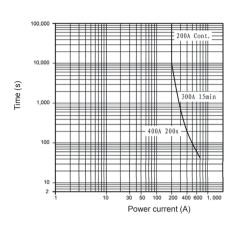
TGEVC1-100A



TGEVC1-135A

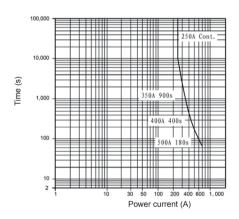
### **TGEVC1 Series High-voltage DC Contactor**





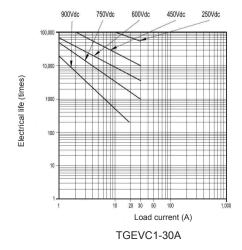
TGEVC1-150A

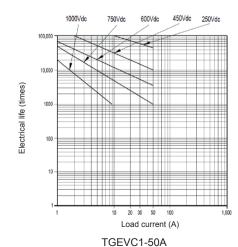
TGEVC1-200A



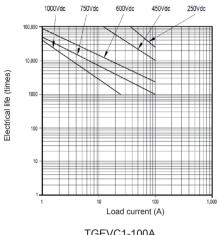
TGEVC1-250A

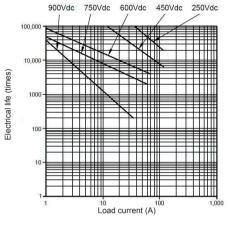
5.2 Life Curve





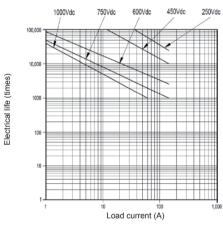
**IGEVC1** 

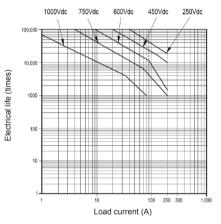




TGEVC1-100A

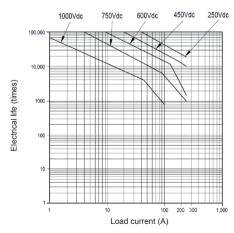






TGEVC1-150A

TGEVC1-200A

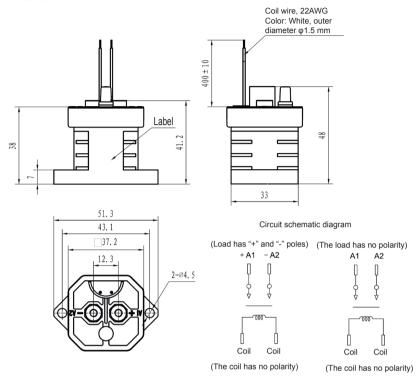


TGEVC1-250A

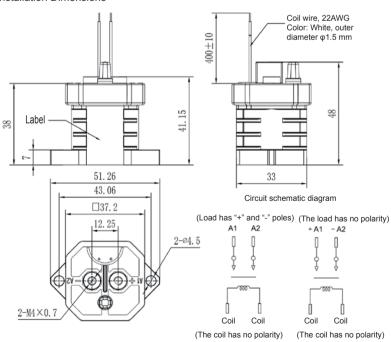
### **TGEVC1 Series High-voltage DC Contactor**

#### 6 Product Outline and Installation Dimensions

#### 6.1 TGEVC1-30 Outline and Installation Dimensions



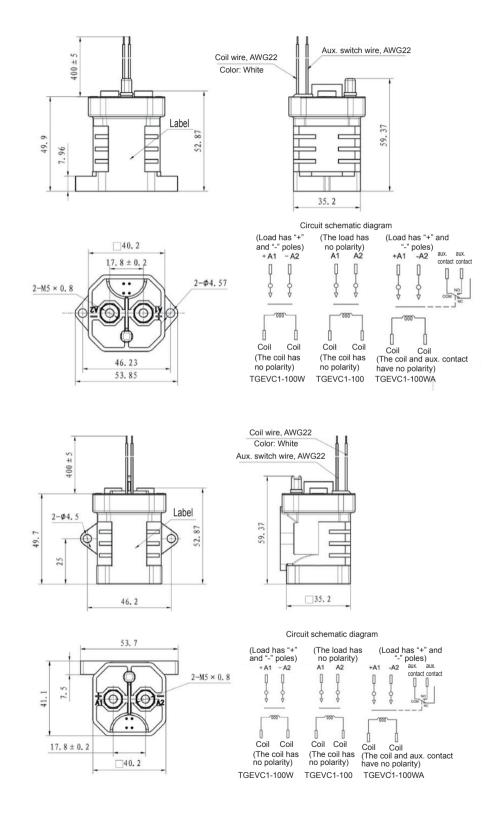
#### 6.2 TGEVC1-50 Outline and Installation Dimensions



# TGEVC1

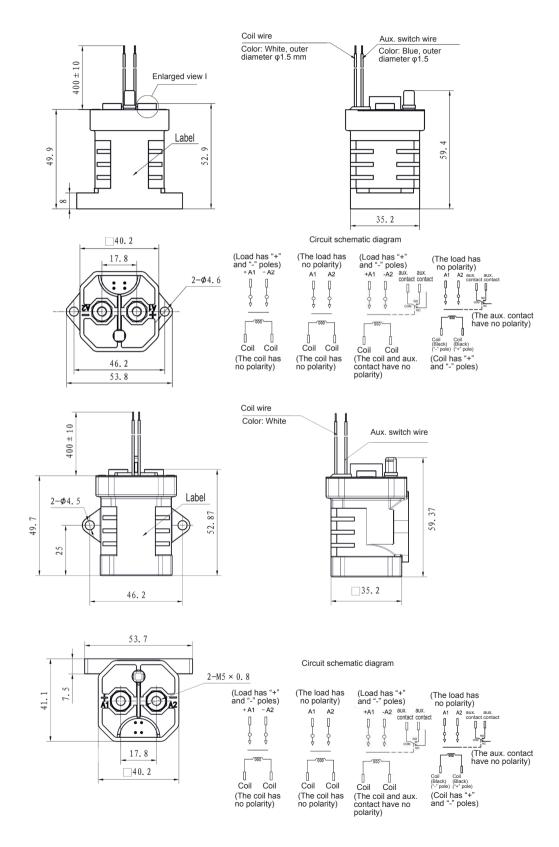
### **TGEVC1 Series High-voltage DC Contactor**

#### 6.3 TGEVC1-100 Outline and Installation Dimensions



### **TGEVC1 Series High-voltage DC Contactor**

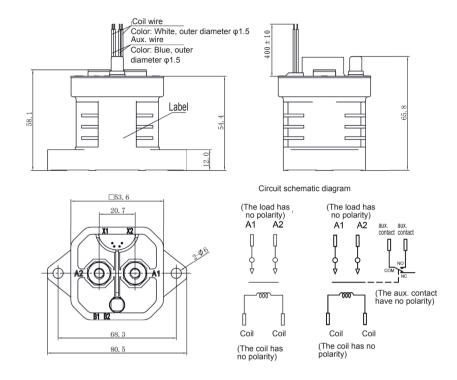
6.4 TGEVC1-135 Outline and Installation Dimensions



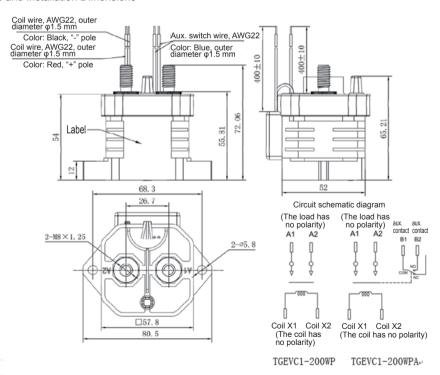
# TGEVC1

### **TGEVC1 Series High-voltage DC Contactor**

#### 6.5 TGEVC1-150 Outline and Installation Dimensions

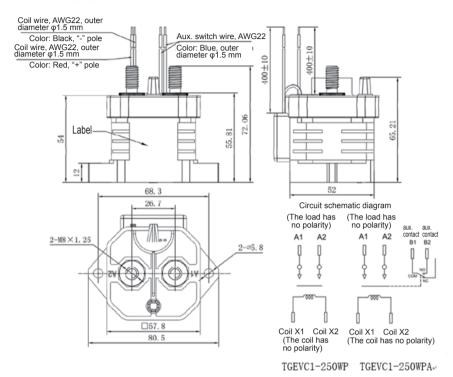


#### 6.6 TGEVC1-200 Outline and Installation Dimensions



#### **TGEVC1 Series High-voltage DC Contactor**

#### 6.7 TGEVC1-250 Outline and Installation Dimensions



#### 7 Ordering Notice

- 7.1 Installation
- 7.1.1 Contactor installation: The contactor is tightened firmly with screws.
- 7.1.2 Mounting screws of main circuit of the contactor: Tightened with screws.
- 7.2 Connection
- 7.2.1 The product shall be used under the L/R ≤ 1 ms conditions. When the L/R > 1 ms inductive load (L load) is used, the parallel surge devices are recommended. If diodes are used, please note this may reduce the service life of the contactor.
- 7.2.2 Please note to refer to the wiring diagram indicated on the product specifications for correct correction of the lead-out end of the load. Incorrect connection may cause unexpected malfunction, abnormal heating, and fire.
- 7.2.3 Busbar of main circuit: Please select the busbar with the corresponding cross-sectional area according to the rated operating current.
- 7.2.4 During the installation of the busbar, do not apply excessive load to the terminals, otherwise it may cause an on-off failure.
  When power-on, please cut off the power supply of the connections such as contactor, connector, and socket in advance before the installation, maintenance, and troubleshooting.
- 7.3 Operation
- 7.3.1 The power of the drive circuit of the product coil must be greater than the coil power of the product, otherwise the product cannot work normally.
- 7.3.2 The power supply waveform of starting the product coil is a square wave.
- 7.3.3 Do not install the product in a place where there is a strong magnetic field (near magnets or transformers), or near the radiation source.
- 7.3.4 The contact of this product is located in a sealed cavity, the cavity is filled with gas, and the leakage rate of gas in the cavity is proportional to the temperature of the cavity (the ambient temperature and the temperature rise caused by the contact being energized). Please ensure that the ambient temperature is ranged -40°C ~ 85°C.

Model	Cont	ractor installation	Mounting :	Sectional area of	
Model	Screw spec.	Tightening torque	Screw spec.	Tightening torque	busbar mm²
TGEVC1-30A	M4	1.8N•m ∼ 2.5N•m	M4	1.8N•m ∼ 2.5N•m	≥15
TGEVC1-50A	M4	1.8N•m ∼ 2.5N•m	M4	1.8N•m ∼ 2.5N•m	≥15
TGEVC1-100A	M4	1.8N•m ∼ 2.5N•m	M5	3.5N•m ∼ 4.4N•m	≥30
TGEVC1-135A	M4	1.8N•m ∼ 2.5N•m	M5	3.5N•m ∼ 4.4N•m	≥30
TGEVC1-150A	M4	1.8N•m ∼ 2.5N•m	M6	4.5N•m ∼ 6.5N•m	≥45
TGEVC1-200A	M5	1.8N•m ∼ 3.5N•m	M8	9N•m ∼ 12N•m	≥60
TGEVC1-250A	M5	1.8N•m ∼ 3.5N•m	M8	9N•m ∼ 12N•m	≥75

#### 8 Ordering Notice

Please specify the complete model and name, main circuit load (voltage and current), control circuit (coil voltage), whether the aux. contact is provided or not, energy-saving boards, coil lead out mode, load lead out mode, installation method, and order quantity of the contactor when ordering.

For example: TGEVC1-200/750-12-PABY 100 sets

Meaning: Main circuit 200A, 750VDC, coil voltage 12VDC, double coil energy-saving board, the contact form is a set of normally open aux. contacts, coil lead-out end with lead-out wire + terminal, horizontal installation; order quantity: 100 sets.