TDGC2, TDGC2J Single-phase Contact Voltage Regulator TSGC2, TSGC2J Three-phase Contact Voltage Regulator (Variable Transformer)

1. General

1.1 Application:
TDGC2, TDGC2J、TSGC2,TSGC2J type contact voltage regulators are normal cooling automatic coupling mode, can be widely applied to industries (metallurgy, chemical, instruments and meters, electromechanical manufacturing, lighting industry, etc.), scientific experiments, public facilities, household electrical appliances and so on to regulate voltage regulation, temperature control, lighting adjustment, power control, etc.

1.2 Standards: IEC/EN 61558, Q/ZT130.

2. Type designation

T □ G C 2 (J)-□ □

- Code of protection type (humid tropics TH, dry torrid TA)
- Rated capacity
- Economical
- Design serialnumber
- Contact type
- Normal cooling
- D: Single-phase, S: Three-phase
- Symbol of voltage regulator

3. Normal working conditions and mounting conditions

3.1 Normal working conditions

3.1.1 Altitude: ≤1000m.

3.1.2 Ambient temperature: -5℃～+40℃, the overage value should not exeed+30℃ within a month, and+20℃ with a year.

3.1.3 Relative humidity
Average relative humidity of the dampest month shall be ≤90%, and the average minimum temperature of the same month shall be 25℃;

3.1.4 Waveform of supply voltage
Waveform of supply voltage approximates to sine wave;

3.1.5 The three-phase supply voltage should be symmetrical
For three-phase voltage regulator, its three-phase supply voltage should be symmetrical approximately.

3.1.6 Installation environment
a. It can not be used in parallel connection;
b. Indoors;
c. The installation site should be free from the air, steam, dust, dirt or chemical deposition that will seriously affect the insulation of voltage regulator, also be far away from other explosive or corrosive medium.
d. The installation site should be free from severe vibration or bump.

3.2 Special working conditions
In case of special working conditions that are beyond the above-mentioned items, please give declaration to us.

4. Technical data

Model	Rated capacity	Phase (S)	Rated frequency	Rated input voltage	Rated output voltage	Rated output current
TDGC2-0.2	0.2kVA	1	50Hz	220V	0~250V	0.8A
TDGC2, TDGC2J-0.5	0.5kVA	1	50Hz	220V	0~250V	2A
TDGC2, TDGC2J-1	1kVA	1	50Hz	220V	0~250V	4A
TDGC2, TDGC2J-2	2kVA	1	50Hz	220V	0~250V	8A
TDGC2, TDGC2J-3	3kVA	1	50Hz	220V	0~250V	12A
TDGC2, TDGC2J-5	5kVA	1	50Hz	220V	0~250V	20A
TDGC2J-7	7kVA	1	50Hz	220V	0~250V	28A
TDGC2, TDGC2J-10	10kVA	1	50Hz	220V	0~250V	40A
TDGC2, TDGC2J-15	15kVA	1	50Hz	220V	0~250V	60A
TDGC2J-20	20kVA	1	50Hz	220V	0~250V	80A
TDGC2J-30	30kVA	1	50Hz	220V	0~250V	120A
TDGC2J-40	40kVA	1	50Hz	220V	0~250V	160A
TDGC2J-60	60kVA	1	50Hz	220V	0~250V	240A
TSGC2-1.5	1.5kVA	3	50Hz	380V	0~430V	2A
TSGC2, TSGC2J-3	3kVA	3	50Hz	380V	0~430V	4A
TSGC2, TSGC2J-6	6kVA	3	50Hz	380V	0~430V	8A
TSGC2, TSGC2J-9	9kVA	3	50Hz	380V	0~430V	12A
TSGC2, TSGC2J-15	15kVA	3	50Hz	380V	0~430V	20A
TSGC2J-20	20kVA	3	50Hz	380V	0~430V	27A
TSGC2J-30	30kVA	3	50Hz	380V	0~430V	40A
TSGC2J-40	40kVA	3	50Hz	380V	0~430V	54A
TSGC2J-60	60kVA	3	50Hz	380V	0~430V	80A

5. Others

Features:
This product has advantages like no waveform distortion, compact design, light weight, high efficiency, convenient operation, safe and reliable, running for long period and so on, so it is an ideal AC voltage regulation power supply.

6. Overall and mounting dimensions (mm)

6.1 Overall dimensions of TDGC2 (refer to fig.1).
6.2 Overall dimensions of TDGC2J (refer to fig.2 and 3).
6.3 Overall dimensions of TSGC2 (refer to fig.4).
6.4 Overall dimensions of TSGC2J (refer to fig.5 and 6)

Fig.1

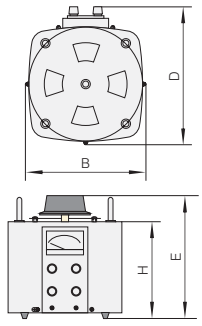


Fig.2

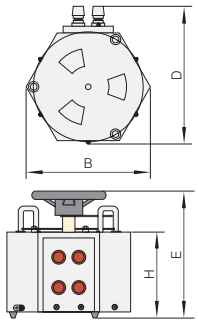


Fig.3

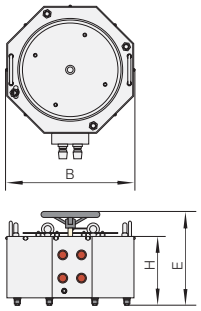


Fig.4

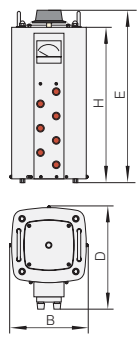


Fig.5

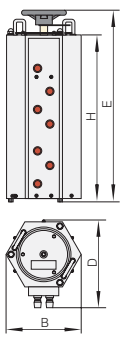
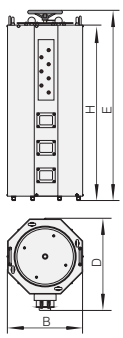


Fig.6



Model	Overall and mounting dimensions (mm)				Fig.
	B max	D max	E max	H max	
TDGC2-0.2	116	130	130	100	
TDGC2-0.5	135	156	142	112	
TDGC2-1	182	207	172	135	Fig.1
TDGC2-2	182	207	200	155	Fig.1
TDGC2-3	210	235	210	155	Fig.1
TDGC2-5	265	330	270	210	Fig.1
TDGC2-10	265	345	430	350	
TDGC2-15	265	345	590	525	
TDGC2J-0.5	132	140	150	120	Fig.2
TDGC2J-1	186	205	215	165	Fig.2
TDGC2J-2	230	245	215	165	Fig.2
TDGC2J-3	266	285	215	165	Fig.3
TDGC2J-5	350	390	265	200	Fig.3
TDGC2J-7	350	390	275	210	
TDGC2J-10	350	430	420	360	Fig.3
TDGC2J-10Y	420	460	290	230	
TDGC2J-15	350	430	585	520	
TDGC2J-20	350	430	615	550	
TDGC2J-30	362	460	1100	1000	
TDGC2J-40	362	460	1140	1080	
TDGC2J-60	560	500	1310	1240	
TSGC2-1.5	135	180	340	310	Fig.4
TSGC2-3	182	245	440	390	Fig.4
TSGC2-6	182	245	480	430	Fig.4
TSGC2-9	210	280	480	430	Fig.4
TSGC2-15	265	345	590	530	Fig.5
TSGC2J-3	186	220	520	460	Fig.5
TSGC2J-6	230	260	520	460	Fig.5
TSGC2J-9	266	285	530	460	
TSGC2J-15	350	430	585	520	
TSGC2J-20	350	430	615	550	
TSGC2J-30	362	460	1100	1020	Fig.6
TSGC2J-40	362	460	1140	1080	Fig.6
TSGC2J-60	560	500	1310	1240	Fig.6