



Feature

- High contact load
- Low consumption, Pulse driven operation
- Strong resistance ability to shock and vibration, High reliability
- Long service life
- Optionally single coil, as well as double coil
- UC3 approval

Safety Certificate

VDE File No.: 40028404
UL File No.: E318915
CQC File No.: CQC08001022572

Contact Capacity

Type number	WJ31G	WJ31G
Nominal capacity (Resistive load)	100A 250VAC	120A 250VAC
Max. switching current	100A	120A
Max. switching voltage	250VAC	250VAC
Max. switching power	15,000VA	30,000VA

General Data

Contact Material	Silver alloy	
Contact resistance	2mΩ Max.	
Operating Time	20ms. Max.	
Releasing Time	20ms. Max.	
Insulation resistance	1,000MΩ Min. (DC500V)	
Dielectric Strength	Contact - contact:	AC2,000V, 50/60Hz 1min.
	Contact-coil:	AC4,000V, 50/60Hz 1min.
Resistance to vibration	Durability	10~55Hz, Double amplitude of 0.5 mm
	Malfunction	10~55Hz, Double amplitude of 0.5 mm
Resistance to shock	Durability	10g min.
	Malfunction	100g min.
Service Life	Mechanical life	100,000 ops
	Electrical life	10,000 ops
Ambient temperature	-40°C ~ +70°C	
Weight		

Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal current ±10% (mA)		Resistance ±10% (Ω)			Set voltage (Max.)	Reset voltage (Max.)	Pulse duration (ms)	Rated power
	Single coil	Dual coil	Single coil	Dual coil					
5	450	893	11.1	5.6	5.6	80 % of nominal voltage	80 % of nominal voltage	100 Min.	Single/Dual 2.25W/4.5W
6	375	750	16	8	8				
9	250	500	36	18	18				
12	188	375	64	32	32				
24	94	188	256	128	128				
48	47	94	1024	512	512				

WJ31G

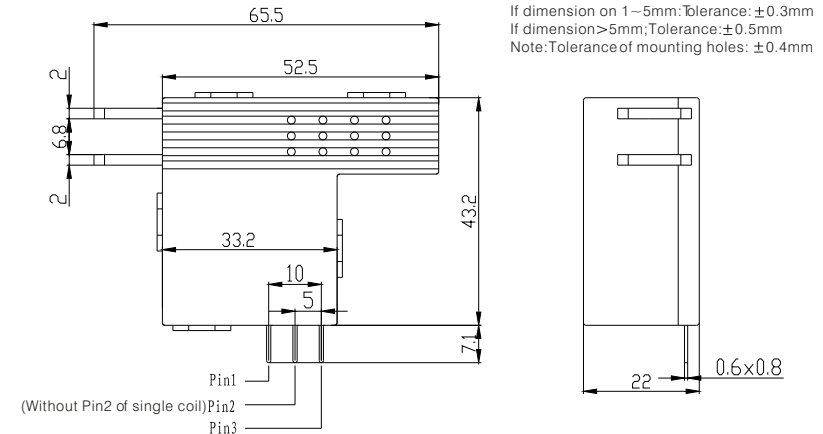
Ordering information

Normenclature	
WJ31G-100A-12V	Coil voltage(VDC): 05, 06, 09, 12, 24, 48
	Nominal current: 100A, 120A
	Type: WJ31G, Contact arrangement: 1Pole

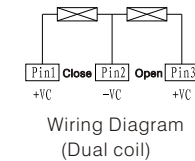
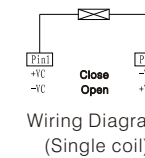
Safety certificate

Certificate Category	VDE	UL	CQC
File No.	40028404	E318915	CQC08001022572

Drawing (Unit: mm)



Mounting dimension



Accessories upon request

Typical Application

- Energy meter used in smart grid
- remote control
- Combination switch
- electrical power