

Product Specification

Part Number VRS Series

1) Rating: AC 125V 0.3A

2) Operating Temperature Range: -10°C ~ +70°C

Storage Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

3) Electrical Performance:

	Test Conditions	Performance
Contact Resistance	Shall be measured at	50mΩ Max.
	1KHz±200Hz (Max 20mV, Max	
	50mA) or 5V DC, 1A by a	
	voltage drop method	
Insulation Resistance	Shall be measured by applying	
	500V DC, between all terminals	100MΩ Min.
	and between the terminals and the	TOOMS WITH.
	frame for 1minute±5sec.	
Withstand Voltage	500V AC (50~60Hz,2mA) shall	Without damage to parts arcing
	be applied between all terminals	or breakdown
	and the frame for 1minute ±5sec.	of breakdown

4) Mechanical Performance:

	Test Conditions	Performance
Control Wobble	Shall be measured by applying a static load of 100gf.com to the tip of control unit.	Less than 1mm
Shaft stopper strength	N/A	More than 5 kgf.cm
Bushing mount strength	N/A	9 kgf.cm MIN
Operating life under no load	10,000 cycles of operating shall be performed continuously at a rate of 15~20 cycles per minute without load. After operating life test, shall be in accordance with the following specifications.	 (1) Contact resistance: 200mΩ Max. (2) Insulation Resistance: 50MΩ Min. (3) Withstand Voltage: AC 250V for 1 minute. (4) Operating force: Less than +10%~-30% for initial operating force
Operating life under load	10,000 cycles of operating shall be performed continuously at a rate of 15~20 cycles per minute with resistive load of AC 125V 0.3A. After operating life test, shall be in accordance with the following specifications	Contact resistance: Less than $500 \text{m}\Omega$. Other specifications are the same as operating life under no load



5) Environmental Characteristics:

	Test Conditions	Performance		
Soldering Test	Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface PCB) shall be settled with 100°C. Temperature of solder 260±5°C Duration of dipping 4±0.5 sec.	More than 90% of the dipped part shall be covered by solder		
Soldering heat resistance	Flow soldering condition: to be performed in 4±0.5 sec. Max within 260±5°C. Manual soldering in 3±0.5 sec. Max within 350±5°C	No abnormalities shall be observed in appearance and operation shall be assured.		
Test Condition (Unless otherwise specified)				

Test Condition (Unless otherwise specified)
Temperature: 5°C - 35°C
Humidity: 45% - 85% R.H.