
K68i Protection Relay Test Set



Features

Characteristics:

1. High power: 3 x 0...35A with a power of 450VA for Medium/Low Voltage test.
2. Phase, frequency and amplitude are independently and continuously adjustable.
3. The maximum output of DC voltage for every phase:300V
4. High Precision: 0.14% reading+0.06% range guaranteed at 0-35A & 0.14% reading+0.06% range guaranteed at 0-300V.
5. Auto/Manual Test on all its five modules: DC Test, AC Test, Distance Test, Harmonic Test, Frequency protection.
6. Reliability: Self-protection by stop output plus with light flashing/sound alarming in case of wrong-wiring, open/short-circuit, overheat & overload.
7. On-site Testing Convenience: the equipment can be put vertically or horizontally when on-site testing.
8. The tester could upgrade by USB and can make speed data communication between computer On 100M-T Network-card.
9. Internal design is of architectural style framework and of shock & impact resistance external box made of high intensity aluminum alloy enables the equipment subject to rigid vibration.

K68 Series Protection Relay Tester main Tech description

Model Factor	K68	K68i
AC Current I	3*35A	3*35A
AC Voltage U	4*130V	4*300V
DC Current I	3*20A	3*20A
DC Voltage U	1*150V	1*150V
DC Voltage Ubc	1*300V	1*300V
Aux. DC (DC Module Setting)	0~300V	0~300V
Aux. DC (Interface Setting)	0~260V	0~300V
Binary Input 8 pairs	•	•
Binary Output 4 pairs	•	•

Technical Data of K68i

Voltage generators (overload and short protection)		
Setting	4-phase AC (L-N)	4 x 0 ... 300 V
Range	1-phase AC (L-L)	1 x 0 ... 600 V
Power	4-phase AC (L-N)	4 x 110VA, at 300V
	1-phase AC (L-L)	1 x 220VA, at 600 V
Accuracy	<0.14% reading + 0.06% range guaranteed at 0...300V; <0.04% reading + 0.01% range typical at 0...300V	
Rise/down time	<120 μ s	
Resolution	1mV	
Current generators (O/C protection)		
Setting	3-phase AC (L-N)	3 x 0 ... 35A
Range	1-phase AC (3L-N)	1 x 0 ... 105A
Power	3-phase AC (L-N)	3 x 300 VA at 35A.
	1-phase AC (3L-N)	1 x 900VA at 105A
Accuracy	<0.14% reading + 0.06% range guaranteed at 0...35A; <0.05% reading + 0.02% range typical at 0...35A;	
Rise/down time	<50 μ s	
Resolution	1mA	
Generators, general		
Voltage and Current Synchronism		$\leq 10 \mu$ S
Frequency	Range	0 ... 1000 Hz
	Accuracy / drift	Error < 0.001Hz at 10 ... 450Hz, Error < 0.01Hz at 450 ... 1000Hz,
	Harmonic superimpose	2-9 orders
	Resolution	0.001Hz

Phase	Range	0° ... 360°
	Accuracy / drift	Error < 0.2 °
	Resolution	0.001°
Timer	Range	Infinite
	Accuracy / drift	Error<0.1ms

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Major functions:

Items	IEEE(R) No.
Overcurrent relays	50/76
Inverse time overcurrent relays	51
Undercurrent relays	37
Ground fault relays	50
Directional overcurrent relays	67
Directional ground fault relays	67N
Overvoltage relays	59
Undervoltage relays	27
Directional voltage relays	91
Directional power relays	32
Power factor relays	55
Distance protection equipment (phase by phase)	21
Automatic reclosing devices	79
Tripping relays	94
Voltage regulating relays	
Overimpedance relays, $Z>$	
Underimpedance relays, Z	
Time-delay relays	