

Automatic circuit breaker testers

UPA-1 (UPA-3)



UPA-1 Control Unit



UPA-1 Current Source

> **HIGH CURRENT TESTERS** > Automatic circuit breaker testers



high voltage
testing equipment



► Application

The Automatic circuit breaker testers UPA are intended for automatic AC current circuit breakers testing. The devices allow registering the values of the supplied current and timing the automatic circuit breaker switching interval.

UPA operate on the principle of varying the power in the primary circuit of the matching power transformer and, respectively, varying the output current, flowing through the automatic circuit breaker under the test. Power regulation could be done either through an external voltage regulator (RNO or VR) or through a built-in thyristor controller.

▲ All metrological characteristics (current and time measurement) are valid if RNO is used, i.e. if the exit signal waveform is stable (just as in other analogs).

► Technical specifications

Parameter	Value	
	UPA-1	UPA-3
Max. output current (230 V supply voltage)	1 kA	3 kA
Output current measuring range ("A" mode)	10A – 100A	10A – 1000A
Output current measuring range ("kA" mode)	0.1kA – 1kA	1kA – 3kA
Test current duration measuring range, ms	50 ms – 990 ms; 1 s – 7200 s	
Current measuring accuracy	3 % of range	
Duration measuring accuracy	3 % of reading	
Max. testing duration at max. output current	10 s	
Power consumption, max	5 kVA	
Supply voltage	230 V ± 23 V	
Frequency	50 Hz ± 1 Hz	
Control Unit net weight	3 kg	
Current Source net weight	13 kg	
Control unit dimensions	340 × 210 × 140 mm	
Current source dimensions	250 × 220 × 115	
Busbars S=10 mm ² , l= 2 m, in the package	4 pcs.	–
Busbars S=110 mm ² , l= 1 m, in the package	2 pcs.	4 pcs.
Operating Conditions		
Air temperature	-35 °C to +35 °C	
Relative humidity	up to 80 % at +20 °C	
Atmospheric pressure, kPa (mm hg)	84,0 – 106,7 (630 – 800)	

KEP reserves right to make changes into specifications.

