

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).

UPA-3 (UPA-1)



UPA-10 (UPA-6)



Current source 3 kA (1 kA)

AC voltage regulators from 4 A to 160 A are available upon request

- TDGC2-1 4A
- TDGC2-2 8A
- TDGC2-3 12A
- TDGC2-5 20A
- TDGC2-10 40A
- TDGC2-20 80A
- TDGC2-30 120A
- TDGC2-40 160A

TDGC2-5



TDGC2-20



RNO-120



Technical specifications

Parameter	Value					
	UPA-1	UPA-3	UPA-6	UPA-10	UPA-16	UPA-20
Max. output current (220V supply voltage)	1 kA	3 kA	6 kA	6.4 kA	9.4 kA	14 kA
Max. output current (380V supply voltage)	—	—	—	9.99 kA	16 kA	20 kA
Output current measuring range ("A" mode)	10A – 100A	10A – 1000A	10A – 999A	100A – 999A	100A – 4092A	—
Output current measuring range ("kA" mode)	0.1kA – 1kA	1kA – 3kA	1kA – 6kA	1kA – 9.99kA	4kA – 16kA	4kA – 20kA
Test current duration measuring range	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	—	30 s	—	10 s	—
Power consumption, max	5 kVA	—	33 kVA	—	55 kVA	—
Supply voltage	220V ± 22 V					
Frequency	50 Hz ± 1 Hz					
Control unit net weight	3 kg	—	50 kg	—	30 kg	—
Current source net weight	13 kg	—	—	—	60 kg	—
Control unit dimensions	340x210x140 mm	—	535x58x200 mm	—	960x680x400 mm	—
Current source dimensions	250x220x115	—	—	—	—	—
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.	—	8 pcs.	—	8 pcs.
Busbars S=110 mm ² , l= 2 m, in the package	—	—	—	—	—	6 pcs.



UPA-20 (UPA-16)

