

EPOS MC3

Motor and Coil Test System



EPOS MC3

Motor and Coil Test System for Circuit Breaker Testing

EPOS MC3 is a compact, portable motor and coil test system with a particularly powerful AC/DC source.

EPOS MC3 can be used to supply power to motors and release coils and can serve as a battery substitute in switching stations and as a power supply for tests using ACTAS circuit breaker test systems.

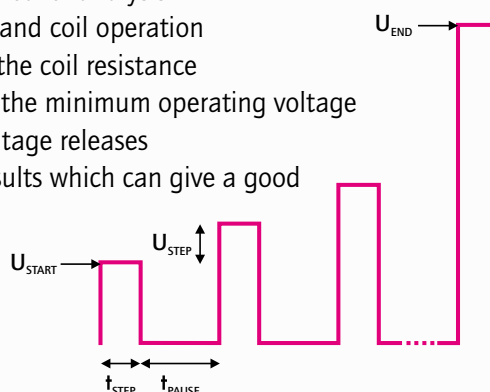
The test system captures the operating currents of spring-charging motors, pump motors and release coils and displays both the numerical results and the curve characteristics of the motor and coil currents on the screen.

Circuit breaker analysis

EPOS MC3 also provides a number of further functions for circuit breaker analysis:

- Analysis of motor and coil operation
- Determination of the coil resistance
- Determination of the minimum operating voltage
- Tests for undervoltage releases

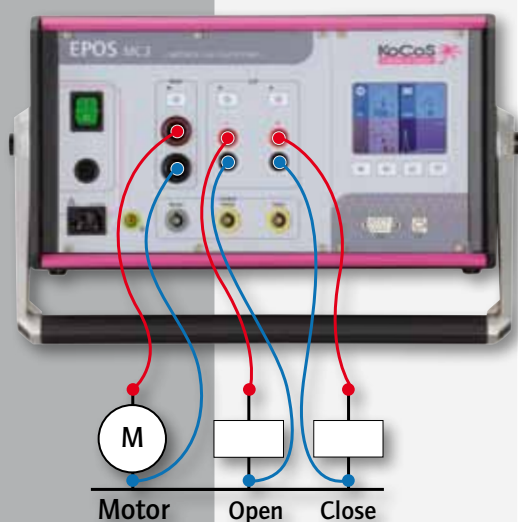
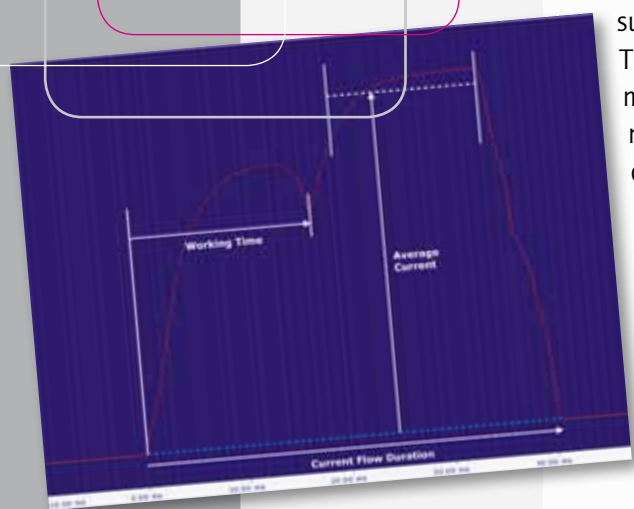
It is easy to analyse the results which can give a good indication of the state of coils, motors and mechanical parts or point to faults between windings.



New, powerful voltage source

The newly developed voltage source uses state-of-the-art power electronics. Thanks to the synthetic generation of output quantities, the source is unaffected by disturbances in the power supply. This means that tests can always be carried out under identical conditions, allowing direct comparison of the results.

- Variable test voltages with high voltage stability up to 270 VAC / 300 VDC
- Maximum currents up to 40 amperes
- Two outputs for opening/closing coils, one output for the motor
- Outputs are independently configurable with regard to voltage and frequency
- Short-circuit proof and overload-protected



Unlimited output duration without cooling phases

The electronically regulated source of the EPOS MC3 is practically loss-less and generates very little heat, even at maximum output power. This means that high currents and voltages can be output for almost unlimited periods of time without cooling phases, resulting in significant savings in time and money in comparison with conventional systems.

Simple and intuitive operation

EPOS MC3 features an integrated control panel with a 3½" touch screen and 7 function keys for operating and controlling the device:

- All settings are clearly displayed
- Test parameters can be edited directly
- Display of output values
- Additional display of operational status via LEDs

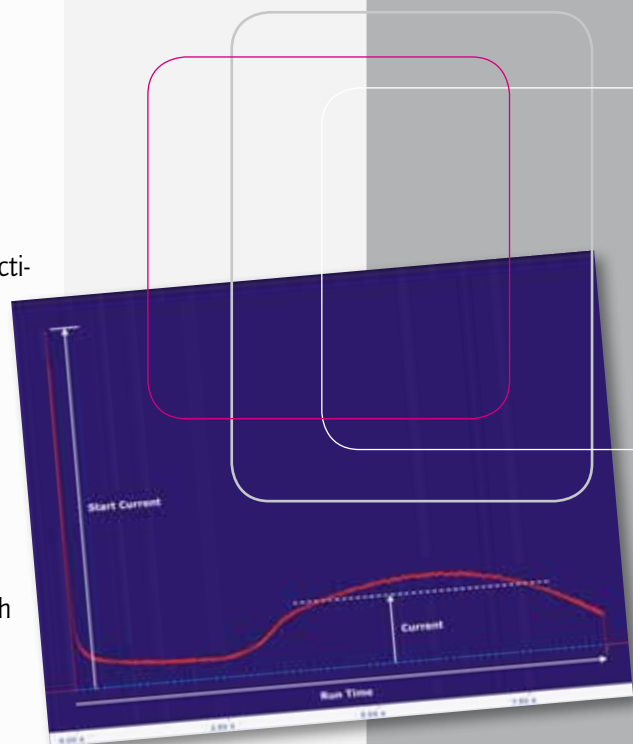
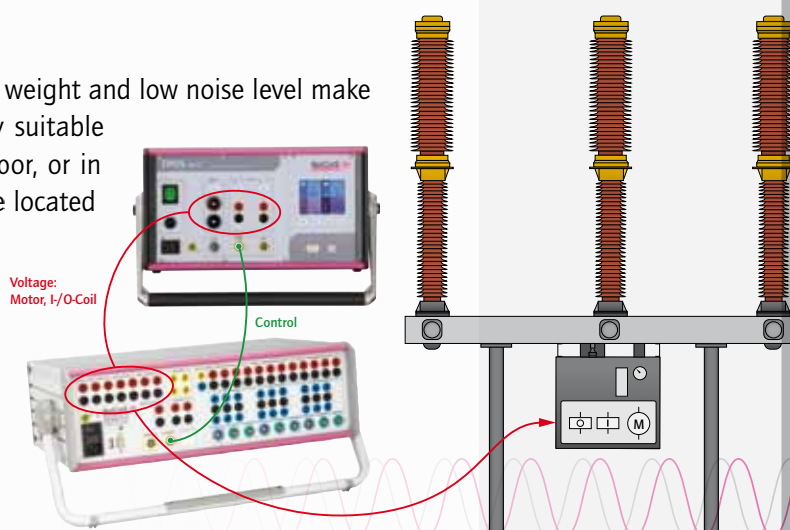
A remote control unit is available as an optional extra for controlling the motor and coil outputs.

EPOS MC3 and ACTAS

EPOS MC3 is equipped with interfaces for connection to ACTAS test instruments. Using the ACTAS testing software, EPOS MC3 can easily be integrated as a source in circuit breaker tests. This makes it simple to automate tests and carry out a comprehensive analysis of the test results.

System versatility

The built-in control panel, light weight and low noise level make this robust test system equally suitable for use on site, on the shop floor, or in the lab. All the connections are located on the front panel so the test system can also be operated in an upright position.



Saving and evaluating test results

The test results are saved in the internal memory with a time and date stamp.

The data saved in the device can be downloaded and managed with the aid of a PC or laptop and the user-friendly EPOS MC3 software.

The measurement results can be presented in a report or exported to an Excel spreadsheet. It is also possible to save the test data in the software, ensuring that it can be made available for comparison when future maintenance and servicing is required.

Source	Output voltage	0...270 VAC / 0...300 VDC
		Motor/coil voltage independently configurable
	Current	max. 40 A
	Frequency	DC, 16 $\frac{2}{3}$, 50, 60 Hz
Measurement	Voltage	0...300 VAC/DC
	Current	0...50 AAC/DC
Resistance	Measuring range	0.5...1500 Ω
Complete system	Power supply	Rated voltage: 85...265 VAC, 47...63 Hz, 120...265 VDC
	Connections	3 (1 x motor, 2 x coil) All connection points are located on the front panel, 4 mm/6 mm flush-mounted safety sockets are used
	Housing	Portable $\frac{3}{4}$ 19" housing, 4 U carrying handle can also be used as a stand
	Dimensions (W x H x D) without handle	360 x 200 x 355 mm
	Weight	12 kg
	Screen	High-resolution, resistive 3½" touch screen
	Operation	Touch screen and four function keys three enable keys (motor, opening/closing coil)
	Display elements	3 status LEDs
	Interfaces	USB-B, RS232
	PC interfaces control	remote control, analog and digital control via ACTAS



Standard package



KoCoS Messtechnik AG

Suedring 42

D-34497 Korbach, Germany

Tel. +49 5631 9596-0

Fax +49 5631 9596-17

info@kocos.com · www.kocos.com