	PKV/U3.1 + MIKO-21	CIBANO 500 (OMICRON)
Price (Euro)		
· , ,	STED CIRCUIT BREAKERS	
Oil	✓	
Vacuum	✓	✓
SF6	✓	✓
Electromagnetic	✓	
Air	✓	
GENER/	AL SPECIFICATIONS	
Number of tested breaks	20	using 3-contact modules CB MC2 – up to 6 breaks
Number of travel sensors channels	1	using the module of CB TN3 - 3 converter
The number of channels for travel control by resistance transducers	2	No data
Availability of galvanic isolation (Allows neglecting the side of high-voltage breaker earthing)	+	No data
Range of ambient temperature , °C	-15+40 °C	-10 – +55 °C
Power voltage, V		
- AC, 50/60 Hz	100 - 242	100 - 240
- DC	100 - 340	-
Size, mm	300x140x400	580x386x229
Weight, kg	8	20
	FUNCTIONS	
Control of linear travel of movable elements a of pole drive	✓	✓
Control of angular travel of movable elements of a pole drive	✓	✓
Air CB valve stroke test using resistance transducers	✓	×
Automatic conversion of angular sensor data into contacts travel and speed parameters (under lack of travel control by a linear sensor)	✓	×
Control of performances of electric magnets of circuit breaker control	✓	✓
Voltage control of an uninterruptable power supply network in the mode of breaker commutation; check of batteries condition in the uninterruptable power supply network	~	No data
Life tests of circuit breakers (to be performed at works of HV circuit breaker manufacturers)	~	~
Determination of pole contacts position	✓	✓
Calculation of contact delay timing	✓	✓

Contact bounce calculation		✓	✓
		mote signal" of CB drive 5-51.300-97)	
Time control of ON/OFF contacts	10 04.40	<i>3-31.300-31)</i> ✓	
Control of movable contacts speed and travel		<u> </u>	· ·
Require		to CB tests 5-51.300-97)	•
Festing the trip-free switching device of CB in the programmable complex cycles OFF-ON, ON-OFF, OFF-ON-OFF	✓		No data
Multiple tests of circuit breakers	✓		✓
Fest of minimum voltage of circuit breakers operation		together with PUV-controller	✓
SPE	ECIFICA	ATIONS	
ime of measurement, sec	0.001 8		No data
Error of measuring the time intervals, msec		±0.1 ±0.3	No data
Range of speed measurements, m/sec	0.002 20		No data
rror of speed measurement by linear travel sensor, %	±2		No data
Range of linear travel measurements, mm	±0.5 900		No data
Discrete nature of linear travel measurements, mm	0.5		No data
lange of angle travels measurements	±0.09 360°		No data
Discrete nature of measuring the angular travels	0.09°		No data
Range of resistance measurements		1 micro ohm - 2 ohm	0.1 micro ohm - 300 mOhm
Range of test current amperage		1 – 200 A	10; 100 A
Fror of measurements		±0.2%	±0.2%
Vorking temperature	-21	-20 – +40 °C	-10 – +55 °C
Display	MIKO-	Color, graphic display 480x272 pixels	×
Sensor screen	₹	✓	×
Communication with PC		USB/USB Flash	X
Connection of USB Flash for storing the archive data	*		X
nstrument manipulation from PC			✓
Analo	g-digital	converter	
vailability of connections for clamp meters	✓		×
Connection of an external shunt for accurate measurement of current amperage	,		X
	mmutato	or block	
ability to form complex automatic reclosure cycles: OFF-ON, ON-OFF, OFF-		✓	✓

Maximum commutated current	35 A	30 A
USER'S	SINTERFACE	'
Integrated measurement templates to facilitate the instrument adjustment to specific models of circuit breakers	✓	✓
Ability to make your own template for circuit breaker measurements	✓	X
Interface for da	ta control and transfer	
RS-232 for connecting to COM port	✓	X
LAN for connection to the local network or to PC at large distances	✓	✓
Comp	uter software	
Independent operation of the instrument (without a notebook)	X	X
Instrument manipulation from PC	✓	✓
Technical analysis of tabular and graphic data (cursors, scaling, curves adjustment, automatic computation of parameters)	✓	✓
Curves overlapping function for visual analysis of differences in the data obtained	✓	No data
Automatic development of reports and support of reports base	✓	✓
Archiving the changes in PC and support of different data bases	✓	✓
Export of tabular data to Excel	✓	No data
Check of contacts position with primary resistors (owing to specific mode of the instrument operation)	✓	×