

CP CR500 Compensation Reactor

Accessory to CP TD1

Testing the isolation quality of rotating machines, cables and other applications with high capacity (100 - 1000 nF) is made comparable light in weight with the CP CR500.

This compensation reactor allows measuring power factor / tangent delta of large motors and generators. In combination with the multifunctional primary test set CPC 100 and the CP TD1, a single CP CR500 compensates capacities of up to 500 nF.

When connecting two CP CR500 in parallel, capacities of up to 1000 nF are compensated.



Technical Data (with one CP CR500)

Maximum Test Voltage	12 kV rms (\geq 50 Hz)
Inductors	2 x 40 H
Current Compensation	2 x 1 A
Capacity Compensation	2 x 250 nF (50 Hz) 2 x 500 nF (35 Hz)
Dimensions	457 x 222 x 225 mm / 18 x 8.7 x 8.9 in
Weight	36.8 kg / 81.4 lbs
Order Number	VEHZ0602 (single unit, accessories and transport case) VEHZ0603 (package with two units)

Benefits

- High power solution made portable due to light weight and small size
- Extensive compensation range by using multiple units and / or changing the test frequency (35 ... 85 Hz)
- More power: Expandable by connecting two devices in parallel

Compensation range with different configurations and test frequencies

Connection configuration				Capacity and V_{max} at different resonance frequencies						
units	parallel inductances	L [H]	I_{max} [A]	35	42	50	60	71	85	Hz
1	1	40.0	1.0	0.52 / 8.4	0.36 / 10	0.25 / 12	0.18 / 12	0.13 / 12	0.09 / 12	μ F / kV
	2	20.0	2.0	1.03 / 8.4	0.72 / 10	0.51 / 12	0.35 / 12	0.25 / 12	0.18 / 12	μ F / kV
2	3	13.3	3.0	1.55 / 7.7	1.08 / 9.3	0.76 / 11	0.53 / 11	0.38 / 11	0.26 / 11	μ F / kV
	4	10.0	4.0	2.07 / 7.7	1.44 / 9.3	1.01 / 11	0.70 / 11	0.50 / 11	0.35 / 11	μ F / kV

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products provides users with the highest level of confidence in the condition assessment of primary and secondary equipment on their systems. Services offered in the area of consulting, commissioning, testing, diagnosis, and training make the product range complete.

Customers in more than 130 countries rely on the company's ability to supply leading edge technology of excellent quality. Broad application knowledge and extraordinary customer support provided by offices in North America, Europe, South and East Asia, and the Middle East, together with a worldwide network of distributors and representatives, make the company a market leader in its sector.

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