

Computer Max

Automatic Power Factor Relay



Description

The state-of-the-art regulators of the **Max** Series have been designed to offer simple and efficient regulation features. The whole range of computer regulators is based on **CIRCUTOR's FCP** system (Fast Computerized Program), offering a set of unique performance features. Its main features are as follows:

- Shows by display: $\cos \varphi$, voltage, current, THD(I) and, besides, records in memory maximum values for voltage and current provides the “phase selection” function, that allows the user choosing the power line phase where the measuring current transformer (C.T.) has been placed in allows viewing in display the variation of $\cos \varphi$, line current and THD(I), when manually connecting or disconnecting capacitor steps.
- Indication by display or through relay output of following alarm conditions: Compensation failure, Over-compensation, Over-voltage, Over-current, C.T. not connected or open, Line current below measurable value.

Applications

The **computer Max** relay is ideal to compensate unbalanced installations where the ease or programming, robustness and accuracy are vital requirements. Its programming system is simple and intuitive, making it very easy for the user to install and maintain it.

Technical features

Voltage measurement circuit	Power Supply	230, 400, 480 V _{a.c.} (according to type)
	Tolerance	-10...+15 %
	Consumption	4 V·A (max 6) - 6 V·A (max 12)
	Frequency	45 ... 65 Hz
Current measurement circuit	Measuring voltage	230, 400, 480 V _{a.c.} (according to type)
	Measuring current	Transformer I_n / 5 A +20%
Output relay	Maximum voltage	250 V _{a.c.}
	Maximum current	10 A
	Electrical endurance (mechanical)	$5 \cdot 10^4$ / $5 \cdot 10^6$ operations
Alarm relay	Relay	Last relay configurable as alarm output
	Alarm	Compensation failure, Over-compensation, Overvoltage, Over-current, C.T. not connected or open, Line current below measurable value
Build features	Operating temperature	-10 ... +50 °C
	Assembly	Panel
	Dimensions	144 x 144 mm
	Connection	Connection strip
	Protection Degree	IP 52 (frontal) / IP 31 (rear)
Performance	Measure electric parameters	Voltage, current, THD(I), and maximum values of U and I
	“Phase selection” function	Selection of the power line phase where the C.T. is placed
	Integrated control system	FCP / 4 quadrants
	Connection programs	1.1.1.1 / 1.2.2.2 / 1.2.4.4 / 1.1.2.2 / 1.2.4.8 / 1.1.2.2 / 1.2.2.4 / 1.2.3.3 / 1.2.3.4 / 1.2.3.6 / 1.2.4.6
	Test Function	$\cos \varphi$ Correction Test & Harmonic Resonance Test
	Connection delay T_r	4 ... 999 s
	Safety delay T_s	5 · T_r
Standards	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-11	

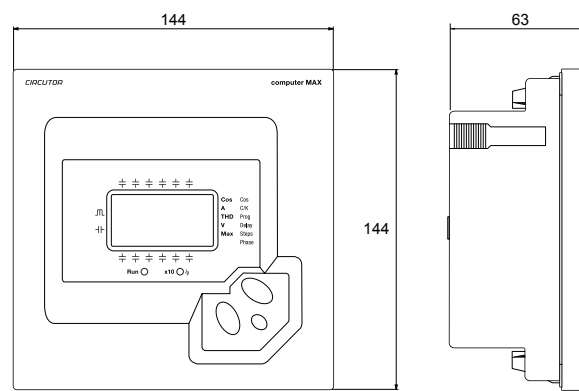
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References

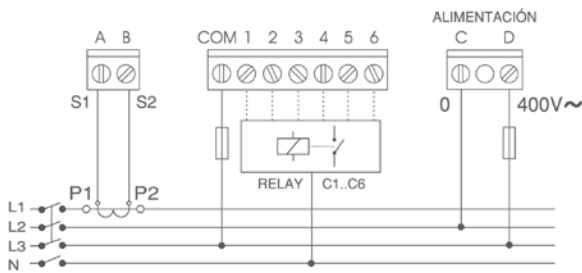
Type	Code	Supply Voltage	Num. Steps
Computer Max 6	R10871	400 V.c.a.	6
Computer Max 12	R10872	400 V.c.a.	12
Computer Max 6	R10871002	230 V.c.a.	6
Computer Max 12	R10872002	230 V.c.a.	12
Computer Max 6	R10871004	480 V.c.a.	6
Computer Max 12	R10872004	480 V.c.a.	12

Dimensions



Connections

Computer Max 6



Computer Max 12

