computer MAX

Automatic power factor regulator

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 φ, 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 φ, 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.

Application

The **computer MAX** regulator 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.

Features

	computer MAX 6	computer MAX 12
Voltage circuit		
Power supply	230, 400, 480 Vac (accor. to type)	
Tolerance	-10... +15 %	
Consumption	4 VA	64 VA
Frequency	45 ... 65 Hz	
Measurement circuit		
measuring voltage	230, 400, 480 Vac (accor. to type)	
Nominal current (I_n)	Current transformer I_n / 5 A	
Output relay	6	12
Maximum voltage	250 Vac	
Nominal current	4 A	
Electrical endurance	$5 * 10^4$ / $5 * 10^6$ opetarions	
Alarm relay		
Relay	Last relay configurable as alarm output	
Alarms	Compensation failure, Over-compensation, Over-voltage, Over-current, C.T. not connected or open, Line current below measurable value	
Build features		
Operating temperature	-10 ... +50 ºC	
Assembly	Panel	
Dimensions	144 x 144 mm	
Connection	Connection strip	
Degree of protection	IP 52 (front) / 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 / 1.2.4.8 / 1.1.2.2	
Test Function	Cos φ Correction Test & Harmonic Resonance Test	
T_r Connection delay	4 ... 999 s	
T_s Safety delay	$5 \cdot T_r$	
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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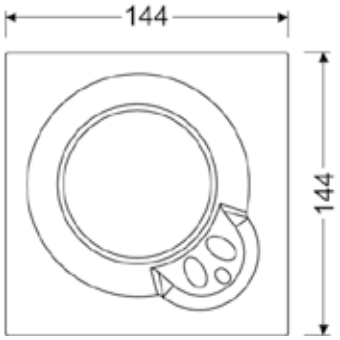
Dimensions

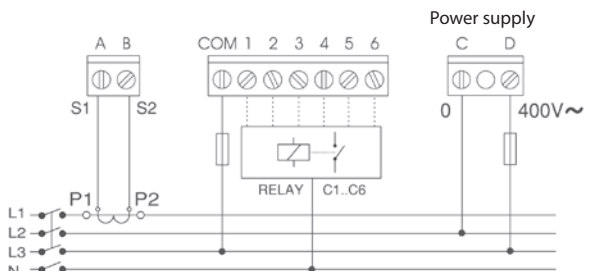


References

Power supply voltage	No. of steps	Size	Type	Code
400 V a.c.	6	144 x 144	computer Max 6	R10831
400 V a.c.	12	144 x 144	computer Max 12	R10842
110 V a.c.	6	144 x 144	computer Max 6	R10831001
110 V a.c.	12	144 x 144	computer Max 12	R10842001
230 V a.c.	6	144 x 144	computer Max 6	R10831002
230 V a.c.	12	144 x 144	computer Max 12	R10842002
480 V a.c.	6	144 x 144	computer Max 6	R10831004
480 V a.c.	12	144 x 144	computer Max 12	R10842004

Connections

computer 6m



computer 12m