computer Max 12f_12Vdc

computer Max 12f_12Vdc, Power factor regulator

Code: R10864.   DESCATALOGADO

> Alarm relay: No
> Measurement Range (V): 400
> Power supply (Vac): 400 Vac
> Nr steps: 12
> Input current: ... / 5A
> Switching unit: EMB-2PH

Description

The **computer max-f** series of regulators is within the fast regulator range, with a response time from 40 ms, adapted to real time compensation requirements.

Main Features:

○ 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 (CT) 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 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-f** system has been designed to compensate installations that have a special load typology and require real time compensation, such as welding units, cranes, lifts and lifting equipment, smelters, hospitals, automotive industry or any other sector/unit that requires a real time compensation.

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Fast power factor regulator (Static capacitor banks)

Code: R10864.

Specifications

AC power supply

Installation category	CAT III, IEC-61010-1
Consumption	7,5 VA
Frequency	45 ... 65 Hz
Nominal voltage	400 V ~ (+15, -10 %)

Mechanical characteristics

Size (mm) width x height x depth	144 x 144 x 62 (mm)
Fastening	Panel
Weight (kg)	0,44

Environmental characteristics

Protection class	IP 40 (Front), IP 30 (unmounted) IEC-60529
Relative humidity (without condensation)	Máx. 95 %
Working temperature	-20 ... +60 °C

Standards

Certifications	UL
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Standards	IEC 61010, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-4, IEC 61000-4-8, IEC 61000-4-5, IEC 61000-4-11 , UL 94

Current measurement circuit

Nominal current (In)	... / 5 A
Phase current measuring range	0.05 ... 5A
Allowable overload	+ 20%
Permanent overload	+ 20%
Connection	Preferably connect to phases L2-L3
Cos φ setting range	0,85 ind. to 0,85 cap. Default setting: 1

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

User interface

Resolution of the display	1 Line x 3 digits x 7 segments + 20 icons

Digital relay outputs

Quantity	12

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Digital transistor outputs

Maximum current	20 mA
Maximum voltage	12 ± 2 Vcc

Measurement accuracy

Phase angle φ	2 % ± 1 dígito
Phase current measurement	1%
Phase voltage measurement	1%

12 Vdc control voltage

![Circutor logo]

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Connections