

Type MGC-1

Options

Option A: Voltage control/cosφ control/var control.

The voltage, cosφ or var is controlled to a preset nominal value. This can be set via the display or via the serial channel. The controlling parameters can be set via the display.

Option B: Analog speed/AVR control

Analog signal ±5 V replacing governor relay outputs

B1 : Analog speed governor output

B2 : Analog AVR

B3 : Analog speed governor and AVR

Option C: Analog transducer outputs

- 3 x (0)4...20mA or -20...0...20mA output representing selected electrical values. Each output can be programmed to represent any of the required measuring values, and the output signal can be programmed to the required output range and type.

Option D1: RS 232 remote value reading of all values measured by MGC-1. Siemens 3964, RK512 with standard telegram.

Option D2: RS 485 remote value reading of all values measured by MGC-1. Modbus RTU interface.

Option D4: RS 485 remote control and value reading of all values measured by MGC-1. Modbus RTU interface.

Option E: dφ/df protection (vector jump)

Option F: df/dt protection (frequency deviation)

Option H: Power maximum relay output. Relay output to start and stop the next generating set on power demand.

Option K0:
12V DC power supply

Option K1:
48V DC power supply

Option K2:
110V DC power supply

Option K3:
220V DC power supply

Option L: Front: IP54 protection.

Binary inputs: Input voltage: 18...250V DC or 18...250V AC. Input impedance: 68Ω

Relay outputs: contact rating: 8A / 250V AC.
Max. voltage: 380V AC.
Mech. life: min. 100,000 change-overs

Analog input: 0...20mA. Input impedance: 250Ω

Load sharing line: 0...5V DC. Impedance: 5kΩ

Analog outputs: Outputs for electronic speed governor or electronic voltage regulator
-5...0...5V DC

Analog outputs or (Option C) Analog transducer output. (0)4...20mA
-20...0...20mA, load. max. 400Ω

Safety: To EN 61010-1. Installation Cat. III, 300V, Pollution degree 2.

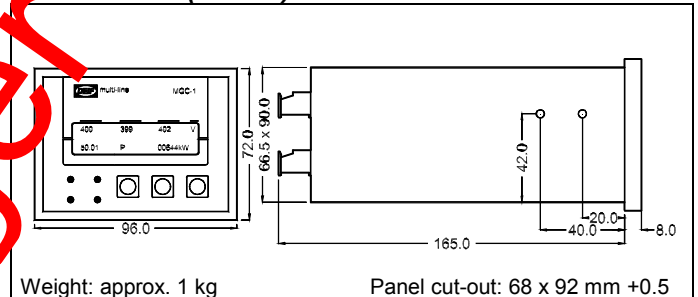
EMC: To EN 50081-1/2 and EN 50082-1/2

Protection: IP21 Front: IP52 or optionally IP 54.
To IEC 529 and EN 60529

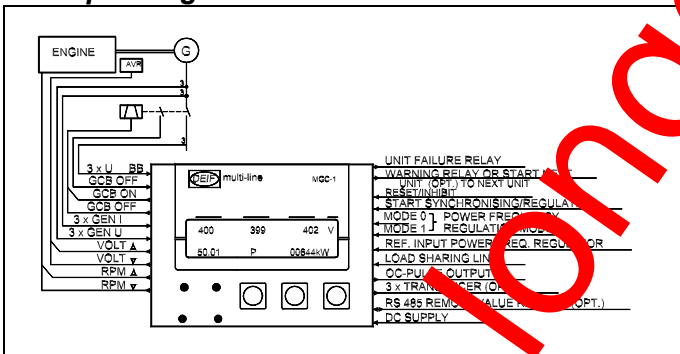
Housing: To DIN 43700

Type approval The multi-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.

Dimensions (in mm)



Principle diagram



Technical specifications

Accuracy: Class 1.0, to IEC 688

Operating temp.: -20...70°C

Climate: Class HSE, to DIN 40040

Meas. voltage: 100/110 (1) to 450VAC (4) ±20%.
Consumption: max. 0.15VA per phase

Meas. current: -/1 or -/5 A,
Consumption: max. 0.1VA per phase.
Overcurrent: max. 3 x I_{nom.} for 1 s (measured)

-/1 A: max. 100 x I_n for 1 s (not measured)

-/5 A: max. 20 x I_n for 1 s (not measured)

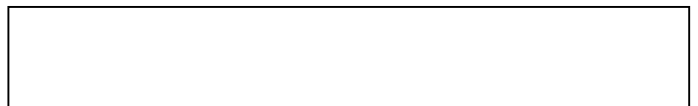
Meas. frequency: 30...70Hz

Auxiliary supply: Standard: 24V DC -25/+30%,
optional: 12-48-110-220V DC
-25/+30% (max. 6W)

Order specifications

Type	Voltage	CT	Options
Basic unit, aux. supply: 24V DC			
VT -/110V AC (-/100V AC)	1		
Voltage direct (max. 440V AC)	4		
CT -/5A		5	
CT -/1A		1	
Options			
Example: MGC-1-1-1-A-C-F	MGC-1	VT	-/1A A, C and F

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



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