

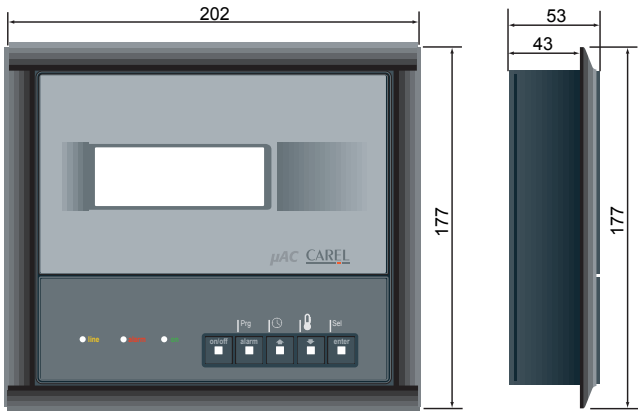


Fig. 3

安装模板 / Drilling template

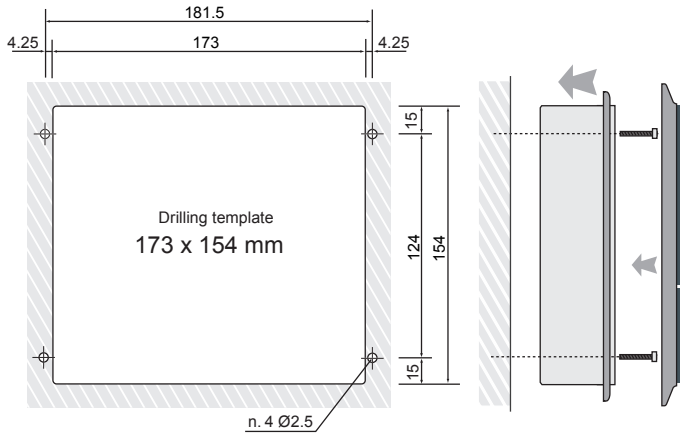


Fig. 4

电气说明:

电源 : 24Vac $\pm 15\%$ 50/60Hz
承载电流: 200mA
保险丝 : 800mA A T (慢速保丝)

模拟量输入:

3个CAREL NTC温度传感器 (10K Ω 在25°C)
1个0-1Vdc / 4-20mA 的湿度传感器或温度传感器 (+V= 14 Vdc, 30mA max.)

开关量输入:

10路非光电隔离输入(与G0,24Vac相比)
每1路的承载电流: 5mA

模拟量输出:

1路0~10 Vdc输出,非光电隔离, (与电源24Vac参考点G0间无光电隔离)
最大负载: 10mA (1K Ω) (Y1)

1路PWM输出用于CAREL控制器,代码MCHRTF****

无负载电压: 4.8V $\pm 10\%$,最小负载: 10mA (1K Ω) (Y2)

开关量输出:

5路可控硅开关量输出, 24Vac 1A 光电隔离 (输出1-5)
2路继电器型, 250Vac 2A,根据VDE 0631,在85°C下能开关100000次(阻抗和感抗)
继电器类型和三端双相可控硅开关动作类型 (微型开关)
继电器与低压间的隔离: 增强型
继电器与前面板间的隔离: 加强型
2个继电器之间: 基本型

界面:

裸露在外的针脚用于光电隔离的RS485 串行板 MAC2SER000 (可选择的).
串行输出与低压间的隔离:可操作的(<50V).
连接器用于MAC2CLK000 时钟卡和可编程钥匙.
触点代码(适用于特殊的Molex™ 压线工具, 69008-0724)

触点Molex™代码	线缆横截面积
39-00-0077	AWG 16 (1,25 mm ²)
39-00-0038	AWG 18-24 (0,9- 0,35 mm ²)

一般说明:

工作范围: 温度传感器 -30-70°C - 湿度传感器 0-100 % rH
测量精度: $\pm 0.5^\circ\text{C}$ (温度探测器), $\pm 0.5\%\text{rH}$ (湿度传感器)
分辨率: 0.1°C
运行环境: -10-54 (-10-54°C), 20-80% rH 无凝露
储存条件: -10-70 (-10-70°C), 0-80% rH 无凝露
绝缘材料的PTI: 250V
隔热和阻燃类别:D类 (自消耗)
前面板-防护规格: IP55
环境污染: 一般
绝缘部件的电压作用时间: 长
软件结构和类型: A
防浪涌电压: II类

因电源和RS485串行输出之间的隔离是可运行的,电源的变压器必须是安全模式,
由MAC2000A00, MAC2SER000, MAC2CLK000 and MCHRTF****0构成的系统代表着
这样一种控制设备,它是被集成到II类应用中去的。防电子振荡的等级取决于生厂商
把这种控制设备集成到哪一种机器上。

Electrical specifications

Power: 24Vac $\pm 15\%$ 50/60Hz
Current absorption: 200mA
Fuse: 800mA T (slow-blow)

Analogue inputs:

3 for Carel NTC (10K Ω at 25°) temperature probes
1 0-1Vdc / 4-20mA input for humidity or pressure probe (+V= 14 Vdc, 30mA max.)

Digital inputs:

10 non-optically insulated inputs, reference G0 at 24Vac,
current absorbed by each input: 5mA

Analogue outputs:

1 output 0-10Vdc non-optically insulated, reference G0
maximum load: 10mA (1k Ω) (Y1)

1 PWM output for Carel controls, codes MCHRTF****

no-load voltage: 4.8V $\pm 10\%$ minimum load: 1k Ω (Y2)

Digital outputs:

5 1A x 24Vac, optically-insulated triac outputs (out 1-5)
2 relay outputs with max. current of 2A at 250Vac (resistive and inductive)
for 100,000 switching at 85°C (C 6-7) according to VDE 0631
Type of relay and triac action (micro-switching): 1C
Insulation between the relays and the very low voltage parts: reinforced
Insulation between the relays and the front panel: reinforced
Insulation between the two relays: basic
Interfaces:

Pin-strip for optically-insulated RS485 serial board MAC2SER000 (optional).
Insulation between the very low voltage parts and the serial output: operational (<50V).
Connectors for MAC2CLK000 clock board and programming key.

Contact codes: (used for special Molex™ crimping tool, 69008-0724)

Molex™ code f or the contact	Cable cross-section
39-00-0077	AWG 16 (1.25 mm ²)
39-00-0038	AWG 18-24 (0.9-0.35 mm ²)

General specifications

Operating range: Temperature probes -30-70°C - Humidity probe 0-100 % rH
Accuracy of measurement: $\pm 0.5^\circ\text{C}$ (temperature probe), $\pm 0.5\%\text{rH}$ (humidity probe)
Resolution: 0.1°C
Operating conditions: -10T54 (-10-54°C), 20-80% rH non-condensing
Storage conditions: -10T70 (-10-70°C), 0-80% rH non-condensing
PTI of the insulating materials: 250V
Category of resistance to heat and fire: Category D (self-extinguishing)
Front panel - Index of protection: IP55
Environmental pollution: normal
Period of electric stress across insulating parts: long period
Software class and structure: A
Immunity against voltage surges: Category II

As the insulation between the power supply and the RS485 serial output is operational only, the power transformer must be safety-type. The system made up of the MAC2000A00, MAC2SER000, MAC2CLK000 and MCHRTF****0 represents a control device to be incorporated into class I or II appliances. The classification relating to protection against electrical shock depends on the way in which the control device is integrated into the machine produced by the manufacturer.