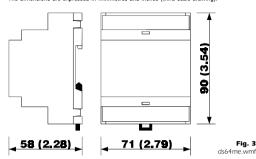
DIMENSIONAL DATA

OVERALL DIMENSIONS

The dimensions are expressed in millimetres and inches (third-scale drawing).



INSTALLATION

WITH THE FIXING SYSTEM SUGGESTED BY THE BUILDER

On DIN EN 50022 standard rail according with DIN 43880 norms (third-scale drawing).

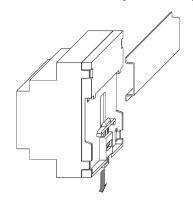


Fig. 4 ms64m wmf

ELECTRICAL CONNECTION

CONNECTIONS TO DERIVE

Instance of typical application.

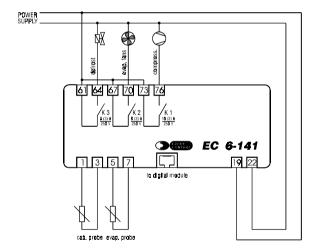


Fig. 5 c6-141e wmf

BUILDER DATA

EVERY CONTROL S.r.I.

Via Mezzaterra 6, 32036 Sedico Belluno ITALY

Phone 0039/0437852468 (a.r.) Fax 0039/043783648

Internet addresses

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Fig. 3

EVERY CONTROL reserves the right to make any modification without prior notice and at any time without prejudice the basic functioning and safety characteristics.

EC 6-141

Power module for compressor, evaporator fans and defrost (for temperature-time) management

Operating instructions

Release 1/98 of November the twenty-third 1998

Code EC 6-141 DOC E000

File 6141e p65 IMPORTANT:

The use of this new instrument is easy; but for safety reasons, it is important read these instructions carefully before the installation or before the use and follow all additional informations.

It is very important keep these instructions with the instrument for future



GENERAL INFORMATIONS

WHAT IS THE IISE

EC 6-141 is a power module studied for refrigerating systems management through the compressor, evaporator fans and defrost (for temperature-time) management; the instrument was studied to be used with a digital module.

There are three relay outputs of which one 16 (3) A @ 250 Vac relay for one 11/2 HP @ 250 Vac compressor management and two 8 (3) A @ 250 Vac relays for evaporator fans and defrost system management.

FC 6-141 is available in the 71 x 90 mm (2.79 x 3.54 in., 4 DIN modules) case and it is studied for DIN standard rail installation

GETTING STARTED

EC 6-141 was studied for DIN EN 50022 standard rail installation according with DIN 43880 norms (the overall dimensions are related in Fig. 3, the fixing system suggested by the builder is related in Fig. 4).

ADDITIONAL INFORMATIONS

- verify if the using conditions (ambient temperature, humidity, etc.) are within the limits indicated by the builder (see the chapter TECHNICAL DATA)
- install the instrument in a location with a suitable ventilation, to avoid the internal overheating of the instrument
- do not install the instrument near surfaces that can to obstruct the air-grating (carpets, covers, etc.), heating sources (radiators, hot air ducts, etc.), locations subject to direct sunlight, rain, humidity, excessive dust, mechanical vibrations or bumps, devices with strong magnetos (microwave ovens, big speakers, etc.)
- according with the safety norms, the protection against possible contacts with electrical parts and parts protected with functional insulation only must be ensured through a correct installation procedure of the instrument; all parts that ensure the protection must be fixed so that they can not be removed if not with a tool.

ELECTRICAL CONNECTION

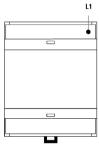
EC 6-141 is provided with one telephone connector for wired cable EC CC 502, EC CC 503, EC CC 504, EC CC 505 or EC CC 510 (for the connection to the digital module) and it is provided with three screw terminal blocks for cables up to 2.5 mm² (0.38 in.², for the connection to the power supply, measure inputs and outputs) located on the instrument frontal panel (the connections to derive are related in Fig. 5 and they are checkable on the polyester label stuck on the instrument case)

- if the instrument is brought from a cold to a warm location, the humidity may condense inside the instrument; wait about an hour before supply the instrument
- verify if the operating power supply voltage, electrical frequency and power of the instrument correspond to the local power supply (see the chapter TECHNICAL
- do not supply more instruments with the same transformer
- if the instrument is installed on a vehicle, its power supply must be derived directly from the battery of the vehicle
- give the instrument a protection able to limit the current absorbed in case of
- the instrument remains connected to the local power supply as long as the terminals 19 and 22 are derived to the local power supply, even if the instrument is
- give the probes a protection able to insulate them against possible contacts with metal parts or use insulated probes
- give the outputs a protection able to protect them against short circuit and overload
- do not try to repair the instrument; for the repairs apply to highly qualified staff
- if you have any questions or problems concerning the instrument please consult Every Control (see the chapter BUILDER DATA).

USE

PRELIMINARY INFORMATIONS

After derived the connections related in Fig. 5, the LED L1 turning ON.



Fia. 2

The LED L1 is associated to the instrument status, it is turned ON during the status ON and it is turned OFF during the status OFF.

To manage the resources of the power module see the chapter USE of the Operating instructions of the connected digital module.

SIGNALS

If the LED L1 is turned ON it means that the instrument is in the status ON.

TECHNICAL DATA

TECHNICAL DATA

Ambient temperature:

Insulation class:

Outputs:

Case plastic grey (PP0), self-extinguishing.

71 x 90 x 58 mm (2.79 x 3.54 x 2.28 in., 4 DIN modules) Size: on DIN EN 50022 standard rail installation according with Inetallation

DIN 43880 norms.

IP 40. Type of protection:

8/8 RJ telephone connector (digital module) for wired cable EC CC 502, EC CC 503, EC CC 504, EC CC 505 or FC CC 510 screw terminal blocks with nitch 10 mm (0.39 in., power supply and outputs) and with pitch 5 mm

(0.19 in., measure inputs) for cables up to 2.5 mm² (0.38 in.2).

from 0 to +60 °C (+32 to +140 °F, 10 ... 90 % of not condensing relative humidity)

230 Vac or 115 Vac or 24 Vac or 12-24 Vac/dc or Power supply:

12 Vac/dc, 50/60 Hz, 5 VA,

Measure inputs: 2 (cabinet and evaporator probe) for PTC/NTC probes.

green LED diode Ø 3 mm (0.11 in.) instrument status indi-

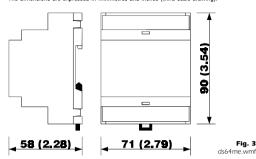
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DIMENSIONAL DATA

OVERALL DIMENSIONS

The dimensions are expressed in millimetres and inches (third-scale drawing).



INSTALLATION

WITH THE FIXING SYSTEM SUGGESTED BY THE BUILDER

On DIN EN 50022 standard rail according with DIN 43880 norms (third-scale drawing).

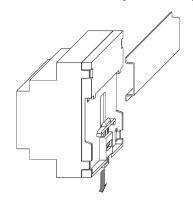


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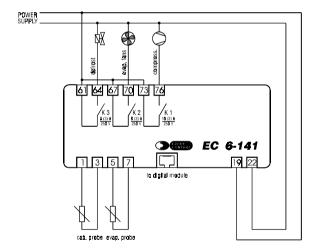


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Power module for compressor, evaporator fans and defrost (for temperature-time) management

Operating instructions

Release 1/98 of November the twenty-third 1998

Code EC 6-141 DOC E000

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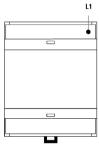
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