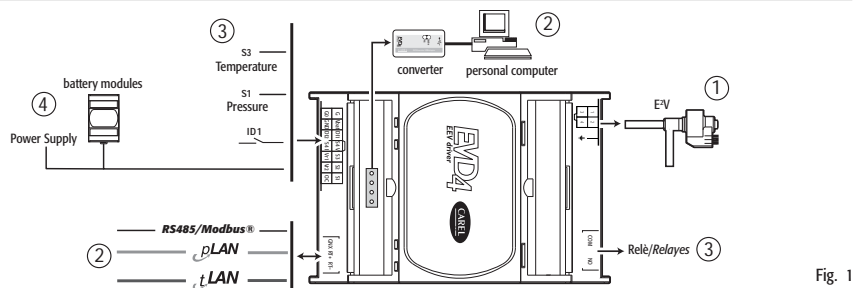


EVD00014\*\* Controllore PID con driver per valvola stepper bipolare / PID controller with driver for two pole stepper valve / Contrôleur PID avec gestionnaire pour vanne pas à pas bipolaire / PID-Regler mit Treiber für bipolare Schrittwentil / Controlador PID con driver para válvula de pasos bipolar / Controler PID com driver para válvula passo a passo bipolar

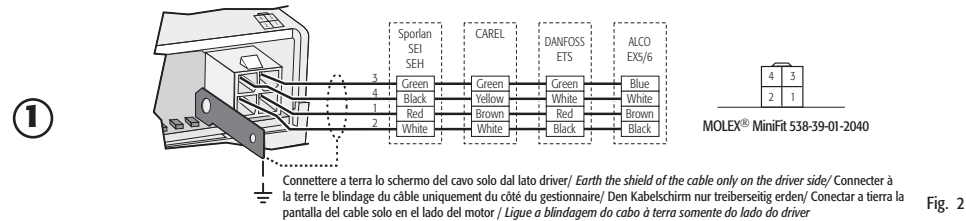
LEGGI E CONSERVA QUESTE ISTRUZIONI READ AND SAVE THESE INSTRUCTIONS

CAREL

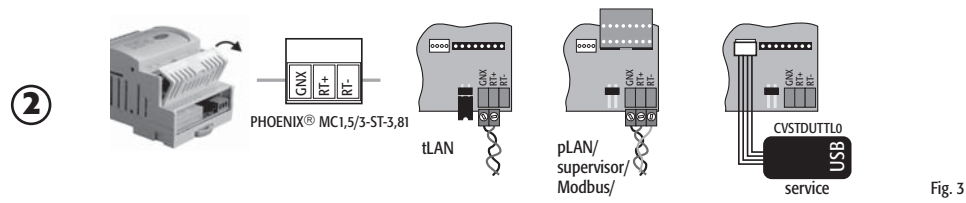
Per ulteriori informazioni, consultare la "Guida al sistema EEV" (codice +030220810) disponibile sul sito www.carel.com, alla sezione "Documentazione". / For more information, read the "EEV systems operating manual" (code +030220811) before installing this product. The manual is available in the documentation download area at www.carel.com.



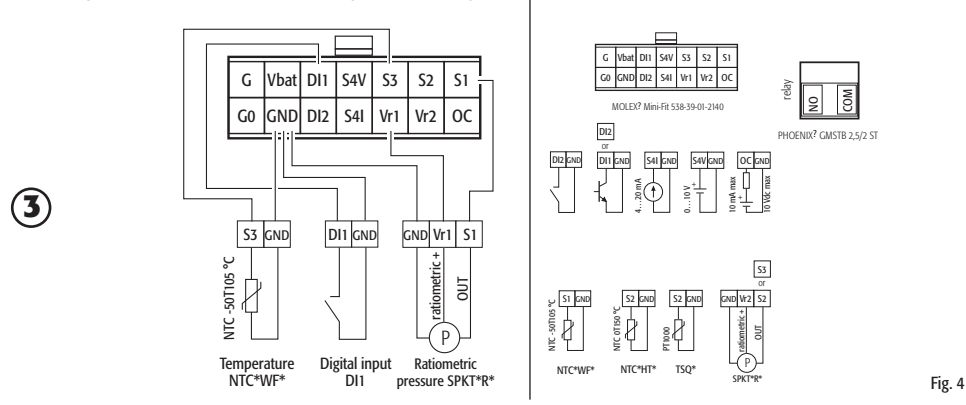
Cablaggio motore / Motor wiring / Câblage moteur / Motorschaltplan / Cableado del motor / Cablagem motor



Collegamenti seriali / Serial connections / Connexions sérieles / Serielle Anschlüsse / Conexiones serie / Ligações serials



Collegamenti sonda (Default)/Connections probes (Default)/Connexions pour les sondes par défaut/Default-Fühleranschlüsse/ Conexiones para las sondas (Default)/Conexões para as sondas padrão



Alimentazione / Power supply / Alimentation / Spannungsversorgung / Alimentación / Alimentação

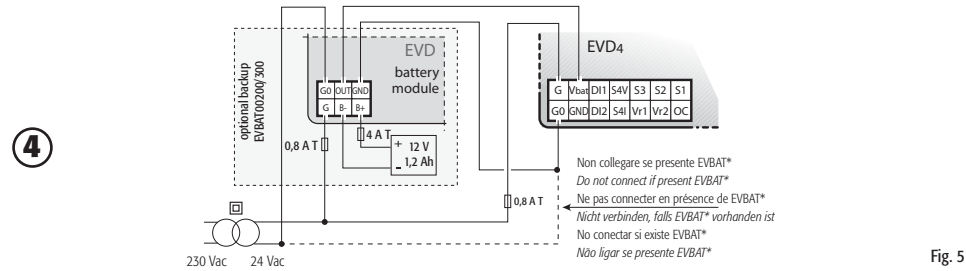


Tabella valvole / Valve table / Tableau des vannes / Ventiltabellen / Tabla de válvulas / Tabela válvulas

Table with columns: n°, Model, Step min, Step max, Step close, Steps/s speed, mA pk, mA hold, % duty. Lists various valve models and their operating parameters.

Il modulo EVD000400 per valvola di espansione elettronica a motore passo-passo bipolare è un controllore per la regolazione della laminazione del refrigerante in un circuito frigorifero. Questa funzione è ottenuta ottimizzando l'apertura della valvola attraverso un algoritmo PID ed alcune speciali routine di regolazione ausiliaria.

Controllo motore Il controllore funziona con motori stepper bipolari (Fig. 1). Lavora con forma d'onda teorica e sinusoidale a microstep e velocità da 5 a 1000 passi; mentre la corrente e la velocità effettivamente raggiungibili...

Famiglia prodotti Table listing various product models (EVD000140\* to EVD000145\*) and their corresponding configurations and accessories.

Specifiche di installazione ed immagazzinamento Table detailing operating and storage conditions, protection degree, dimensions, and material specifications.

Alimentazione Table providing power supply requirements, average current at 24 Vac, and emergency power supply instructions.

Ingressi ed uscite Table detailing connections for default probes, other connections, and digital inputs/outputs.

(\*) ATTEZIONE! Tutti gli ingressi analogici tranne S4V, gli I/O digitali e le seriali (non optoisolate) sono riferiti alla massa GND.

Tabella fluidi refrigeranti Table listing refrigerant types (R22, R134a, R404a, etc.) and their operating temperatures.

Smaltimento del prodotto L'apparecchiatura (o il prodotto) deve essere oggetto di raccolta separata in conformità alle vigenti normative locali in materia di smaltimento.

The EVD000400 module for electronic expansion valves with two-pole stepper motor is a controller that manages the expansion of the refrigerant in a refrigerant circuit. This function is achieved by optimising the opening of the valve using a PID algorithm and some special auxiliary control routines.

Motor control The controller works with two-pole stepper motors (Fig. 1). It works with a theoretical sinusoidal waveform, in micro-steps and with speeds from 5 to 1000 steps; the current and the control speed effectively achievable depends on the resistance and the inductance of the motor windings used.

Family products Table listing product models and their configurations.

Installation and storage specifications Table detailing operating and storage conditions, protection degree, dimensions, and material specifications.

Power supply Table providing power supply requirements, average current at 24 Vac, and emergency power supply instructions.

Inputs and outputs Table detailing connections for default probes, other connections, and digital inputs/outputs.

(\*) WARNING! All analogue inputs except for S4V, the digital I/O and the serial port (not optically-isolated) refer to the GND earth.

Table of refrigerants Table listing refrigerant types and their operating temperatures.

Disposal of the product The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

