



Quick Start Guide

Compressor Operation Mode

Quick Start Guide CM-RC-02

Please use this document only as additional information to the KT-240. All safety instructions of the KT-240 have to be considered. This document describes the change of the operating mode in BEST.

BEST and BEST APP

The “compressor operation mode” enables the selection of all IQ functionalities on the CM-RC-02.

The operating mode can be selected by BEST or BEST App. When the CM-RC-02 is ordered ex-factory in compressor operation mode, the parameter is already preset.

Configuration:

In the „Main Setup“ menu, the „Compressor operation mode“ function can be selected under the „Operating mode“ menu.

Parameter	Unit	Default Setting	Actual Setting	User Setting
Main Setup				
Compressor model			4HE-25	
Compressor serial number (actual)			1010112345	
Refrigerant			R134a	
Operating mode	?		Compressor operation mode	Compressor operation mode
CM-IO extension board	?		None	Protection mode (SE-B)
Motor starter function	?		Direct on Line (DOL)	Compressor operation mode
Date		19.12.2023	19.12.2023	

After that, the other parameter under the menu “Main Setup” can be configured. The module is factory pre-programmed with the compressor serial number, compressor type, default refrigerant and the motor starter function.

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Minimal needed wiring

The CM-RC-02 is connected to the Motor-PTC Sensor for motor temperature monitoring via terminals CN11 and CN12 (orange cable). The high pressure switch can be optionally connected to the terminals CN9:3 and CN9:4. The terminals CN9:3 and CN9:4 are bridged ex-factory. The high pressure switch monitoring is activated by default.

The module must be connected to the supply voltage via terminals CN10:3 and CN10:4. Terminal CN10:1 is provided for the safety chain. The voltage of the safety chain is available, for the motor contactors, at CN9:1 and CN9:2, when the start signal is given between the terminals CN3:3 and 4 or via a Modbus command and there is no alarm active. If the input of the safety chain is unavailable, drops out during operation or an alarm on the CM-RC-02 is active, the module will inhibit the CN9:1 and CN9:2 output and the compressor will stop immediately. Protective earth conductor needs to be connected on the CM-RC-02 according the operating instructions KB-100, KB-120 or KB-130.

