



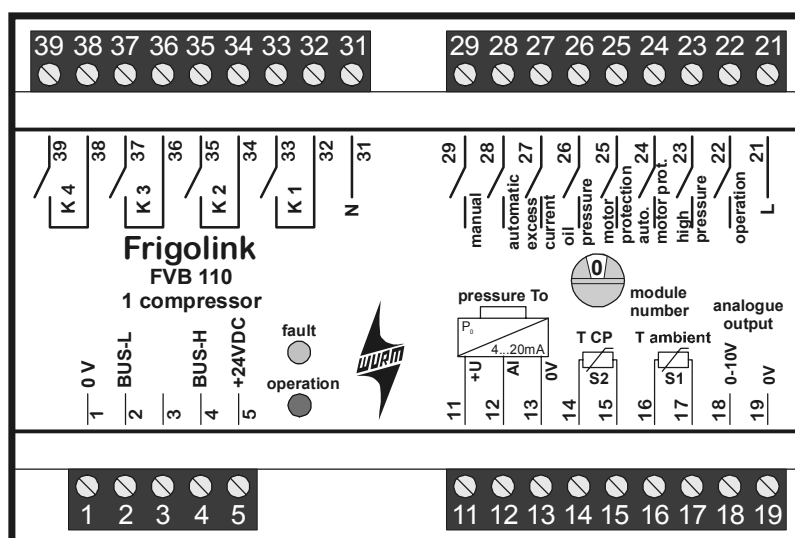
FRIGOLINK Field Module for Compound Controls for 1 Compressor



Characteristics

- ✓ Compact field module for installation on DIN profile rails
- ✓ DIN installation dimensions, e.g. for installation in distributor
- ✓ Can be positioned immediately next to one another and without gaps
- ✓ Simple wiring through short lines for installation in the control cabinet with power guards
- ✓ Regulation of one compressor per module
- ✓ Fixed input/output allocation for probes, control inputs and relay outputs
- ✓ 4 relay switch outputs 230VAC for 1 compressor
- ✓ 28 operating modes with integrated pre-unloading integrated star-delta switchover integrated partial winding start integrated capacity control (up to 4-stage)
- ✓ 230VAC inputs for operation acknowledgement and detailed alarm routing monitoring
- ✓ Intelligent emergency program for bus errors
- ✓ CAN-bus interface, electrically isolated
- ✓ Integrated power supply for electronics and relays
- ✓ No setting of parameters needed at the device
- ✓ Setting of the module number through user-friendly rotary switch
- ✓ Intelligent emergency program for bus errors
- ✓ Differentiation of probes that have not been used and defective probes

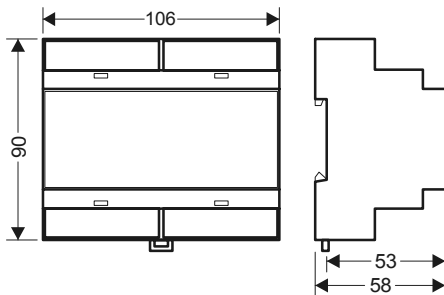
Wiring diagram



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Installation



The device is designed for profile rail mounting. The housing is a standard size and is also suitable for installation in fuse boxes, distribution switch boxes or electric boxes of refrigerators.

The units can be positioned immediately next to one another and without gaps.



First, place the upper guide edge of the module on the top hat rail and then press it gently downward until it engages with the mounting safety catch on the rail.

Technical data

Supply voltage	230VAC, +10%/-20%
Power draw	approx. 4.2VA
Fusing	max. 6A
Displays	1 x red light-emitting diode, operating voltage 1 x red light-emitting diode, flashing in case of fault 8 x red light-emitting diodes, for signal at the input 4 x red light-emitting diodes, for controlling the for relays
Communication	4-wire CAN-bus interface
CAN-bus power supply	24VDC, +20%/-10%, approx. 25mA
Digital inputs	8 x 230VAC, electrically isolated via optocoupler. The inputs must be wired with the same phase conductor. 400VAC between the input terminals is not permitted.
Temperature probe inputs	1 x TRK277, F1 for cool zone temperature T_u 1 x DGF920, F2 for compressor end temperature T_{vd}
Analogue input	4...20mA, output voltage 18VDC, suction pressure T_o
Output relay	4 x closing contacts, 230VAC 4(2)A
Analogue output	1 x 0...10 VDC, tied to potential, capable of bearing max. 10mA
Cross section for connection	2.5mm ²
Housing dimensions	(WxHxD) 106 x 90 x 58 mm ³ , DIN 43880
Mounting	Mounting rail DIN EN 50022 35x15
Ambient temperature	0...+50 °C operation / -25...+70 °C storage
Weight	approx. 450 g
Low-voltage protection	The device and the outputs are not suitable for low voltage protection (SELV).
EC Conformity Declaration	as defined by the EC Directive on Electromagnetic Compatibility 89/336/EEC

Please observe the detailed descriptions in the chapters of the FRIGOLINK catalog.

This document will automatically become invalid when superseded by a new technical description.