



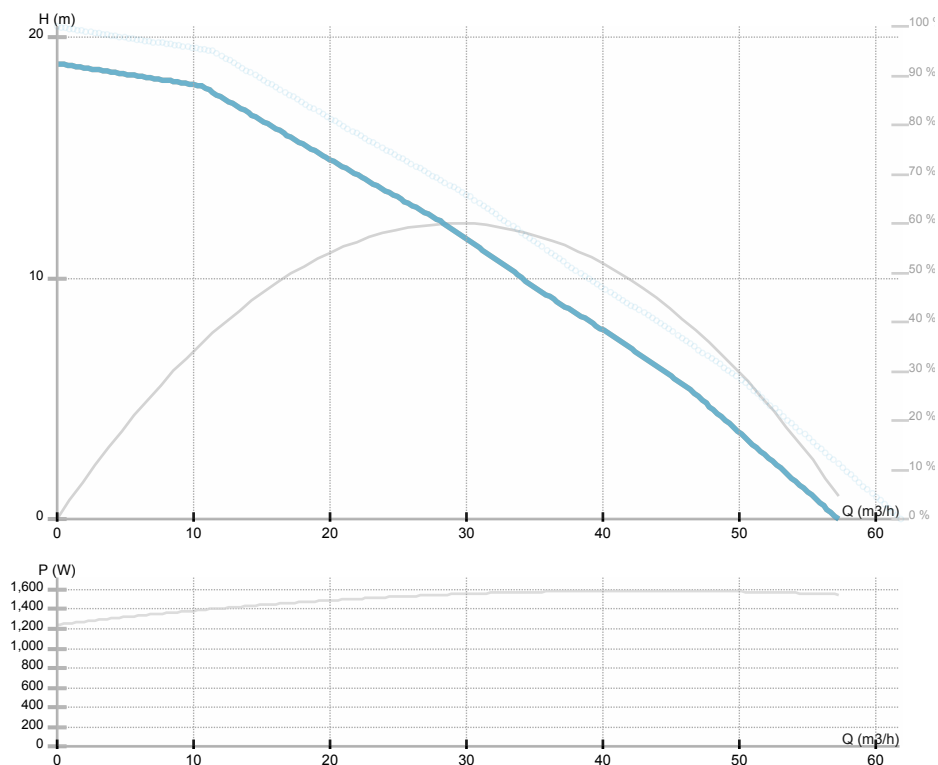
NMTD MAX II C 65/180 F340

979528288

NMTD MAX II C / Electronically regulated double circulation pumps with C communication module

GENERAL

Product number	979528288		
Product name	NMTD MAX II C 65/180 F340		
Seal type		Energy efficiency index	0.2
Net weight	49.50 kg		
Head max. (H max)	18.9 m	H min	0.0 m
Flow max. (Q max)	57.4 m³/h	Q min	0.0 m³/h
	%		
Noise	≤43 dB(A)		



ELECTRICAL DATA

Supply voltage	1~230 V
Mains frequency	50/60 Hz
Power input max.	1550 W
Speed max.	4900 rpm
Insulation class	H (180 °C)
Current max.	6.6 A
Protection class	IP44
Thermal protection	NTC
Frame size	
Motor IE class	

INSTALLATION

Pumped liquid	water VDI 2035, glycol 40%
Liquid temperature	-10.0 ÷ 110.0 °C
Ambient temp.range	40 °C
Port-to-port length	340 mm
Pipe connection	65
Pressure rating	PN 6/10
Connection	PN 6/10
Max operating pressure	1.0 MPa

MATERIAL

Bearing	all carbon
Impeller	PES GF 30
Hydraulics	gray cast iron
Shaft	AISI 420

NMTD MAX II C 65/180 F340

979528288

NMTD MAX II C / Electronically regulated double circulation pumps with C communication module



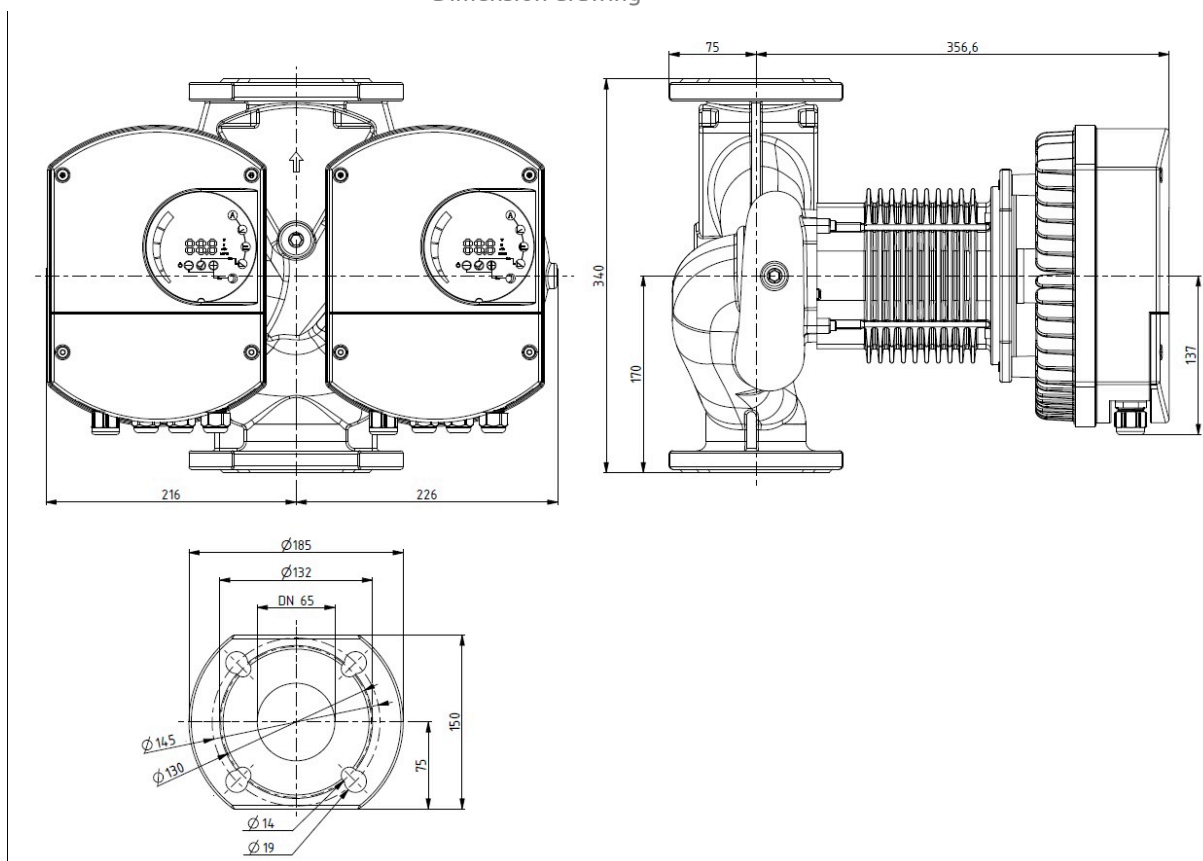


NMTD MAX II C 65/180 F340

979528288

NMTD MAX II C / Electronically regulated double circulation pumps with C communication module

Dimension drawing



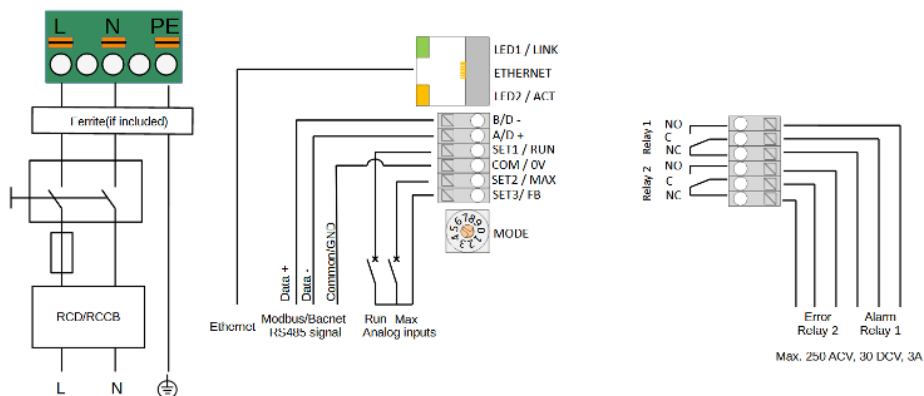


NMTD MAX II C 65/180 F340

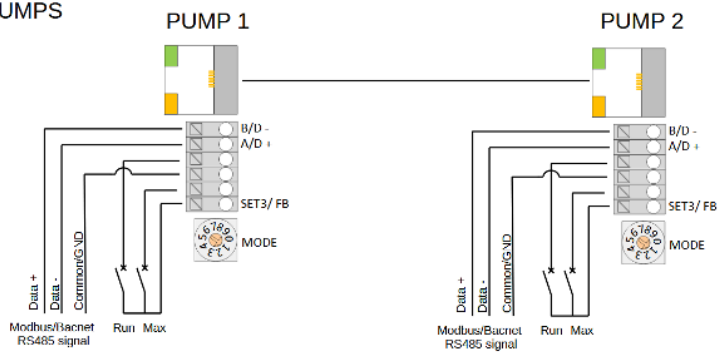
979528288

NMTD MAX II C / Electronically regulated double circulation pumps with C communication module

Electrical wiring



TWIN PUMPS





NMTD MAX II C 65/180 F340

979528288

NMTD MAX II C / Electronically regulated double circulation pumps with C communication module

NMTD MAX II C 65/180 F340 is a highly efficient (Energy-Efficiency-Index $EEI \leq 0.20$) circulation pump designed for heating, ventilation and air condition systems.

The pump includes a permanent magnet synchronous motor, the impeller speed is controlled by a built-in frequency converter.

The pump is made with two pumping units located in one housing. Pumping units are controlled in the following modes:

- automatic switching in the event of a malfunction of one of the pumping units or alternate connection of pumping units at certain intervals
- parallel operation with the ability to turn on a second pumping unit at peak load.

The pump is equipped as standard with the C module, which enables the following functions:

- remote activation and deactivation of the pump
- feedback on pump status
- pump control via analog signal 0-10V
- communication via Modbus
- communication via BACnet
- control of the pump via the Internet
- pump control via PWM signal

The pump is controlled using three buttons on the digital screen, with which you can set:

- operating mode
- values of flow rate (m³/hour), power consumption (watt), pressure (m), rotation speed (rpm)
- error messages

The pump is equipped with a built-in temperature sensor. The electronics unit has a built-in thermal overload protection sensor. The bearings are lubricated by the pumped liquid.

The pump is equipped with a dry-running protection system - the rotation of the impeller slows down to a minimum in the absence of a working medium.

The pump incorporates an unlocking system - the control system allows the high torque pump motor to be restarted multiple times when the impeller is locked.

The following pump operating modes are available:

- automatic mode - the pump control system finds the optimal operating point, this mode is used in most systems
- proportional pressure mode - recommended for radiator heating
- operating mode with constant pressure - recommended for floor heating.
- operating mode with a fixed speed (when this mode is turned on, the pump starts working at maximum speed, then the speed is adjusted manually) - recommended for heating and ventilation systems.
- night mode (works in parallel with other settings) – when the temperature in the system drops, the pump reduces the speed to a minimum.

For normal operation of the pump, it is necessary to use a working medium consisting of clean water or a mixture of clean water and glycol in accordance with current water quality standards for heating systems, for example the German standard VDI 2035. If the glycol content in the working medium exceeds 20%, it is recommended to check the pump parameters Temperature range at an ambient temperature of +25 °C: +2...+110 °C, at ambient temperature +40 °C: +2...+95 °C.

Operating point:

- Flow: 0 m³/h
- Head: 0 m

Pressure and flow tolerances according to ISO 9906-2015.

Electrical data:

- Voltage: 1~230 V

- Maximum current: 6.6 A

Installation data:

- DN: 65
- Installation length: 340 mm
- Net weight: 49.5 kg

The pump is available with flanged (PN6/10) connection. The hydraulic pump housing is made of gray cast iron, protected by a cataphoresis coating, which makes the pump more resistant to the environment. The rotor can is made of one piece without welding, the rotor cladding is made of AISI 316 stainless steel, the pump shaft is made of AISI 316 stainless steel. The impeller is made of synthetic material reinforced with glass fiber PES GF30. The bearings are made of graphite.

Removable thermal insulation of the pump housing is included in the delivery package.