

## Data sheet: Stratos GIGA B 32/1-19/1,2

### Hydraulic data

Minimum efficiency index (MEI)	0.7
Maximum operating pressure $p$	16 bar
Min. fluid temperature $T_{\min}$	-20 °C
Max. fluid temperature $T_{\max}$	140 °C
Min. ambient temperature $T_{\min}$	0 °C
Max. ambient temperature $T_{\max}$	40 °C

### Materials

Pump housing	5.1301, KTL-coated
Impeller	PPS-GF40
Shaft	1.4542
Shaft seal	AQ1EGG
Lantern	5.1301, KTL-coated

### Installation dimensions

Pipe connection on the suction side <i>DN<sub>s</sub></i>	DN 50
Pipe connection on the pressure side <i>DN<sub>d</sub></i>	DN 32

### Motor data

Mains connection	3~400 V, 50/60 Hz
Motor efficiency class	IE5
Rated power $P_2$	1.20 kW
Rated current $I_N$	2.30 A
Rated speed $n$	4620 rpm
Max. speed $n_{\max}$	4620 rpm
Emitted interference	EN 61800-3
Interference resistance	EN 61800-3
Insulation class	F
Protection class motor	IP55
Threaded cable connection	1 x M12x1.5

### Approved liquids (other liquids upon request)

Heating water (as per VDI 2035)	yes
Heat carrier oil	Special version at additional charge
Cooling and cold water circulation systems	yes
Water-glycol mixtures (at 20 – 40 vol. % glycol and fluid temperature $\leq$ 40 °C)	yes

### Information for order placements

Brand	Wilo
Product description	Stratos GIGA B 32/1-19/1,2
EAN number	4048482778310
Article number	2189105
Net weight, approx. $m$	38 kg
Gross weight, approx. $m$	45.0 kg
Length with packaging	795 mm
Height with packaging	465 mm
Width with packaging	395 mm
Packaging property	Transport packaging
Packaging type	Cardboard box
Minimum order quantity	1

## Tender text: Stratos GIGA B 32/1-19/1,2

High-efficiency monobloc pump with EC motor of energy efficiency class IE5 in accordance with IEC 60034-30-2 and electronic power adjustment in glanded pump design. The pump is configured as a single-stage low-pressure centrifugal pump with flange connection and mechanical seal. The Stratos GIGA B has been predominantly designed for pumping heating water (acc. to VDI 2035), cold water and water-glycol mixtures without abrasive substances in heating, air-conditioning and cooling systems.

### Design:

- Single-stage low-pressure centrifugal pump with one-piece shaft in monobloc design including foot on pump housing
- Flange and housing measurements according to EN 733
- PN 16 flange – drilled according to EN 1092-2
- Pressure measuring connections (R 1/8) for mounted differential pressure sensor (version ...-R1 without differential pressure sensor)
- Pump housing and motor flange with cathaphoretic coating as standard
- Mechanical seal for pumping water up to  $T_{max.} = +140$  °C. A glycol admixture of 20 % to 40 % by volume is permitted up to  $T \leq +40$  °C. An alternative mechanical seal must be provided in water-glycol mixtures with glycol proportions > 40 % up to maximum 50 % by volume and a fluid temperature of > +40 °C up to maximum +120 °C or fluids other than water.
- Connection voltages: 3-480 V  $\pm 10\%$  50/60 Hz; 3-440 V  $\pm 10\%$  50/60 Hz; 3-400 V  $\pm 10\%$  50/60 Hz; 3-380 V -5 % +10% 50/60 Hz

### Accessories:

- Mounting brackets for fixing to the foundation
- Differential pressure sensor kits 0 – 10 V for pumps in version ...-R1
- IR-Monitor
- IR-Stick
- IF-Module PLR
- IF-Module LON
- IF-Module Modbus
- IF-Module BACnet
- CAN IF-Module

### Standard equipment:

- Green button manual operation level for:
  - Pump On/Off
  - Selecting the control mode:  $\Delta p$ -c (constant differential pressure),  $\Delta p$ -v (variable differential pressure), PID controller, n-constant (constant speed)
  - Setpoint and speed adjustment
  - Configuration of operating parameters
  - Fault acknowledgement
- Pump display for displaying:
  - Control mode
  - Setpoint (e.g. differential pressure or speed)
  - Error and warning messages
  - Actual values (e.g. power consumption, actual value of the sensor)
  - Operating data (e.g. operating hours, energy consumption)
  - Status data (e.g. status of SSM and SBM relay)
  - Device data (e.g. pump name)
  - Operating mode (for Y-piece installation only: main/standby operation, parallel operation)

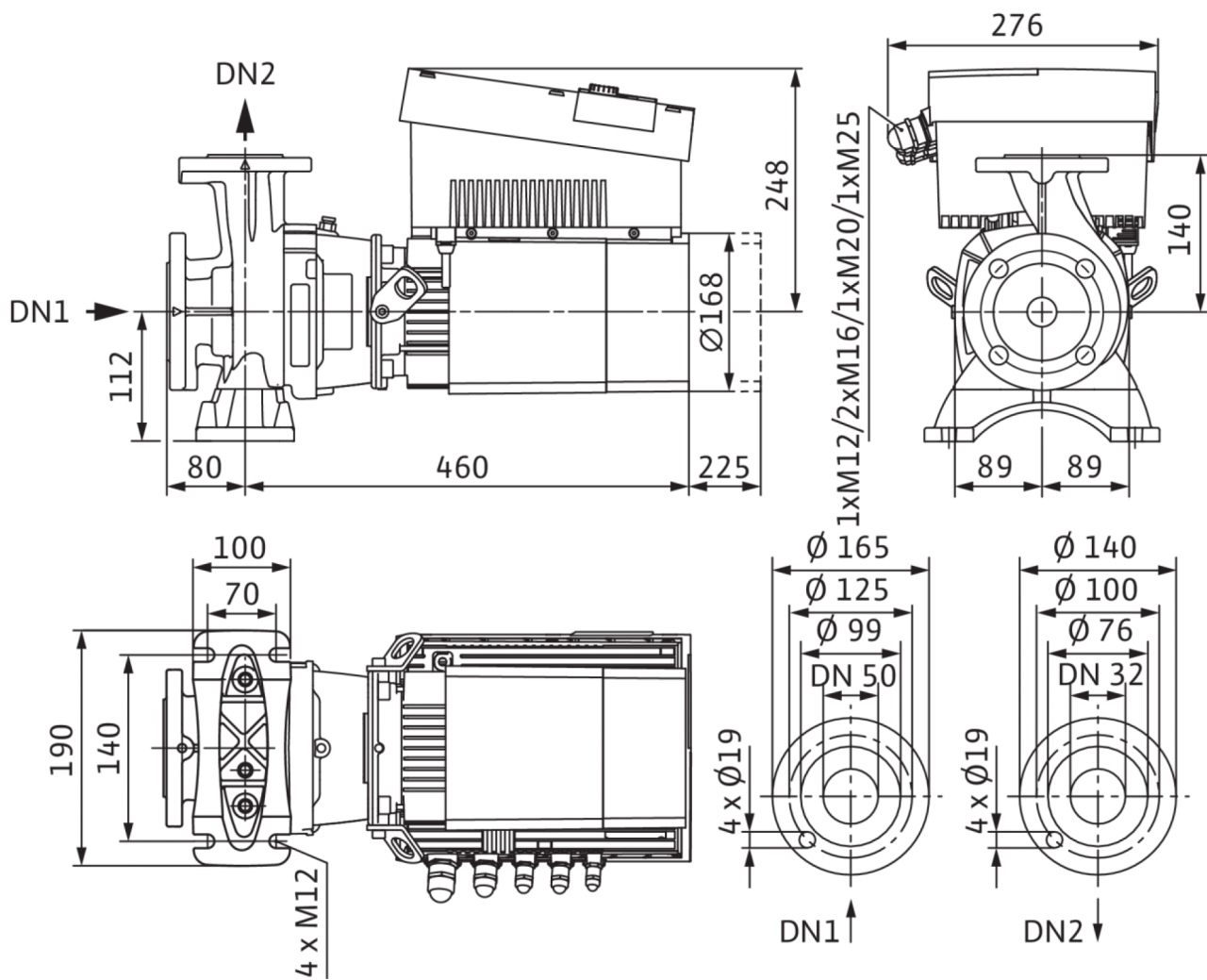
### Additional functions:

- Analogue interfaces 0 – 10 V, 2 – 10 V, 0 – 20 mA, 4 – 20 mA, built-in dual pump management for application in the Y-piece, two configurable signalling relays for operating and fault signals, configurable fault response adapted to HVAC applications, access disable on the pump, built-in full motor protection (PTC thermistor sensor) with trip electronics, condensation drain holes in the motor housing as standard (sealed in delivered condition), infrared interface for wireless communication with the operating and service unit Wilo-IR-Monitor and Wilo-IR-Stick, plug-in position for Wilo IF-Module Modbus, BACnet, CAN, PLR, LON for connecting to the building automation.

Operating data		Motor data	
Fluid media	Water	Motor efficiency class	IE5
Maximum operating pressure $P_N$	16 bar	Emitted interference	EN 61800-3
Minimum efficiency index (MEI)	0.7	Interference resistance	EN 61800-3
		Mains connection	3-400 V, 50/60 Hz
		Rated power $P_2$	1200.0 W
		Max. speed $n_{max}$	4620 rpm
		Rated current $I_N$	2.30 A
		Insulation class	F
		Protection class motor	IP55
		Motor protection	integrated
Materials		Installation dimensions	
Pump housing	5.1301, KTL-coated	Pipe connection on the suction side	DN 50
Impeller	PPS-GF40	$D_Ns$	
Shaft	1.4542	Pipe connection on the pressure side	DN 32
Shaft seal	AQ1EGG	$D_Nd$	
Lantern	5.1301, KTL-coated		
Information for order placements			
Brand	Wilo		
Product description	Stratos GIGA B 32/1-19/1,2		
Net weight, approx. $m$	38 kg		
Article number	2189105		

## Dimensions and dimensions drawings: Stratos GIGA B 32/1-19/1,2

Stratos GIGA B 32/1-19/1,2



## Pump curves: Stratos GIGA B 32/1-19/1,2

Stratos GIGA B 32/1-19/1,2

