

Code	48SHT05A
Family	TRITUS Small
Group	Sewage water with grinder
Typology	Submersible

Extra UE Only	No
Uses	Civil
	Household

Application limits

Liquid Type	Sewage Water
Minimum liquid temperature	0 °C
Maximum liquid temperature	40 °C
Maximum Chlorine Content	- ppm
Maximum Sand Content	- ppm
Manometric suction lift	0 m
Maximum immersion depth	10.00 m
Maximum Ambient Temperature	- °C
Minimum Ambient Temperature	- °C
Maximum Working Pressure	- bar

Duty Point

Flow rate (actual)	0.000 l/min
Head (actual)	0.000 m

Pump nameplate data

Flow rate	20 - 220 l/min
Head	22.5 - 2 m
Maximum head	23.6 m
Minimum head	2 m
Minimum Efficiency Index	-

Motor nameplate data

Voltage	380-415 V
Phases	3
Frequency	50 Hz
Rotation Speed	2900 rpm
Rated output power	1.30 kW
Rated Current	3.8 A
Input power P1	1.85 kW
Efficiency grade	Undefined
Capacitor	- µF
Capacitor Voltage	- V
Insulation Class	F
Enclosure class IP	X8

Construction and safety standards

The pumps are complete with:

- 10 m long power cable
- External float switch for single-phase versions

EN 60335-1, IEC 60335-1

EN 60034-1, IEC 60034-1

Connections

Type of connection	Gas threaded
Size of suction connection	-
Size of delivery connection	1 1/4"

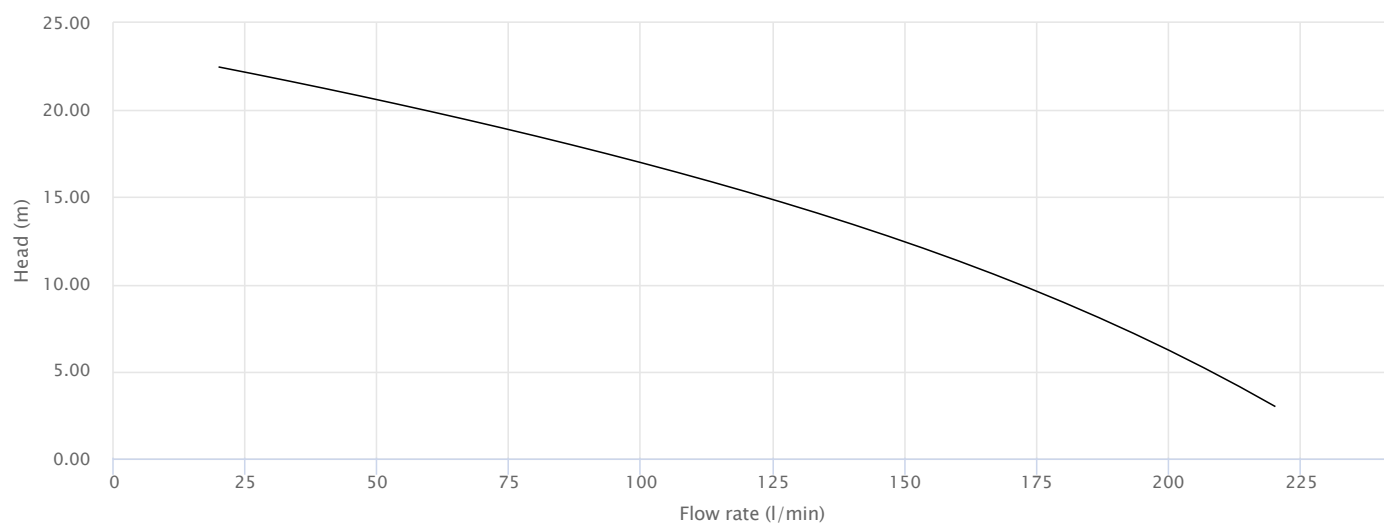
Input Data

Rated flow rate (requested)	0.000 l/min
Rated head (requested)	0.000 m
System geodetic head	0.000 m
System friction losses	0.000 m
NPSH Available	0.000 m
Liquid	Water
Temperature	20 °C
Density	998.1 kg/m³
Kinematic Viscosity	1.00 mm²/s
Vapour Pressure	2,318 Pa

Other Pump Data

Max Sound Pressure Level (1 m)	- dBA
Horizontal installation	No
Solids free passage	- mm

Performance



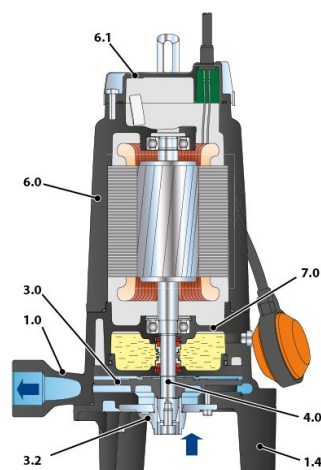
Construction

Bearings

Motor bearing - pump side	6303 ZZ-C3E
Motor bearing - opposite side	6303 ZZ-C3E

Shaft Seal

Seal Type	Double mechanical seal in an oil chamber
Diameter MS	14
Stationary Ring MS	Silicon Carbide
Rotating Ring MS	Graphite
Elastomer MS	NBR
Pump Side Model	MG1-14D SIC
Diameter PS	14
Stationary Ring PS	Silicon Carbide
Rotating Ring PS	Silicon Carbide
Elastomer PS	NBR



Materials

1.0 - Pump casing	Grey cast iron GJL 200 EN 1561
1.4 - Base	Grey cast iron GJL 200 EN 1561
3.0 - Impeller	Reinforced technopolymer
3.2 - Grinder	Stainless steel EN 1.4125 (AISI 440C) hardened
4.0 - Pump Shaft	Stainless steel EN 1.4057 (AISI 431)
6.0 - Motor casing	Grey cast iron GJL 200 EN 1561
6.1 - Motor Cover	Grey cast iron GJL 200 EN 1561
7.0 - Bracket	Grey cast iron GJL 200 EN 1561

Dimensions

DN2	a	b	c	d	h	h1	p	x	Kg
	[mm]								
1 1/4"	140	104	186	85	406	80	500	500	22.6

