

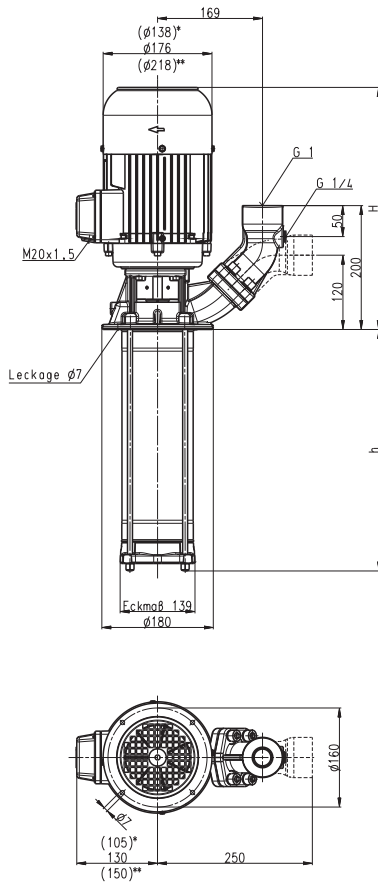
Immersion Pumps

(S)TH4

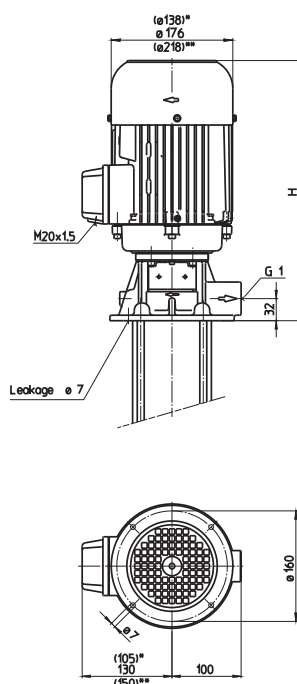
Closed impellers



STH403...424



TH403...424



*) Dimensions for (S)TH403...(S)TH408
 **) Dimensions for (S)TH419...(S)TH424

| Type | Vol. del. at manom. del. head l/min / m | Height H mm | Depth of immersion h mm | Weight kg | Power kW | Voltage 3~ V | Fre- quen- cy Hz | Current A | Speed 1/min |
|--------------|--|----------------|----------------------------|--------------|-------------|--------------------|---------------------------|--------------|----------------|
| (S)TH403B190 | 40/29 | 291 | 190 | 14.9 | 0.54 | 460 | 60 | 1.4 | 3300 |
| (S)TH404B190 | 40/39 | 332 | 190 | 17.1 | 0.86 | 460 | 60 | 1.85 | 3440 |
| (S)TH405B190 | 40/49 | | | 17.2 | | | | | |
| (S)TH406B190 | 40/58 | 332 | 190 | 18.2 | 1.06 | 460 | 60 | 2.1 | 3440 |
| (S)TH407B290 | 40/68 | 359 | 290 | 19.4 | 1.27 | 460 | 60 | 2.4 | 3440 |
| (S)TH408B290 | 40/78 | | | 19.5 | | | | | |
| (S)TH409B290 | 40/88 | 381 | 290 | 27 | 1.49 | 460 | 60 | 2.7 | 3500 |
| (S)TH410B290 | 40/100 | 381 | 290 | 27.2 | 1.75 | 460 | 60 | 3.1 | 3470 |
| (S)TH411B290 | 40/110 | 407 | 290 | 29.4 | 1.95 | 460 | 60 | 3.5 | 3480 |
| (S)TH412B390 | 40/119 | | 390 | 30.0 | | | | | |
| (S)TH413B390 | 40/129 | 439 | 390 | 35 | 2.18 | 460 | 60 | 3.9 | 3500 |
| (S)TH414B390 | 40/139 | 439 | 390 | 35.5 | 2.55 | 460 | 60 | 4.4 | 3480 |
| (S)TH415B390 | 40/150 | | | 35.6 | | | | | |
| (S)TH416B390 | 40/159 | 439 | 390 | 36.0 | 2.94 | 460 | 60 | 5.1 | 3480 |
| (S)TH417B490 | 40/170 | | 490 | 36.1 | | | | | |
| (S)TH418B490 | 40/179 | | | 36.2 | | | | | |
| (S)TH419B490 | 40/192 | 432 | 490 | 47.9 | 3.8 | 460 | 60 | 6.4 | 3520 |
| (S)TH420B490 | 40/202 | | | 48.0 | | | | | |
| (S)TH421B490 | 40/214 | | | 48.1 | | | | | |
| (S)TH422B590 | 40/224 | | 590 | 48.3 | | | | | |
| (S)TH423B590 | 40/233 | 432 | 590 | 49.5 | 4.55 | 460 | 60 | 7.9 | 3520 |
| (S)TH424B590 | 40/242 | | | 49.7 | | | | | |

Immersion Pumps

series TH and FH use **closed impellers** in order to minimize power consumption and to optimize hydraulic pump efficiencies.

In addition, the TH series offers high pressures at short immersion depths. Inline pumps of the series FH can be used as **boosting pumps** if provided with positive inlet pressure. This inlet pressure can be provided by the central coolant supply or a feed pump. In such a setup, pumps of the series FH can raise the incoming pressure by up to 26 bar.

Extended length is possible. See medium pressure pumps features within the technical information section.

Applications

- Types of fluid
 - Industry water
 - coolants
 - cooling/cutting oils
- Kinematic viscosity
 - 1 mm²/s (1 cSt)
 - higher viscosity upon request
- Pumping temperature
 - 0...80° C

Construction

| | |
|---------------------|------------|
| Pump body | cast iron |
| Cover | cast iron |
| Impellers | CrNi-steel |
| Shaft | CrNi-steel |
| Diffusers | CrNi-steel |
| Mechanical seal | SiC |
| O-rings | Viton |
| Optional: | |
| Pump body | bronze |
| Cover | bronze |
| | CrNi-steel |
| Noise level | |
| (S)TH403...(S)TH408 | 61 dBA |
| (S)TH409...(S)TH418 | 66 dBA |
| (S)TH419...(S)TH424 | 75 dBA |

