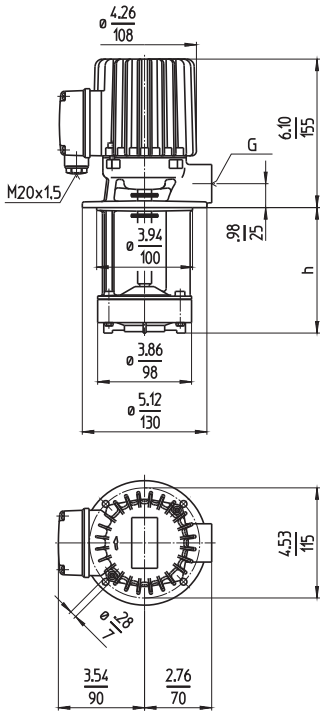
# Immersion Pumps
# TA40...80

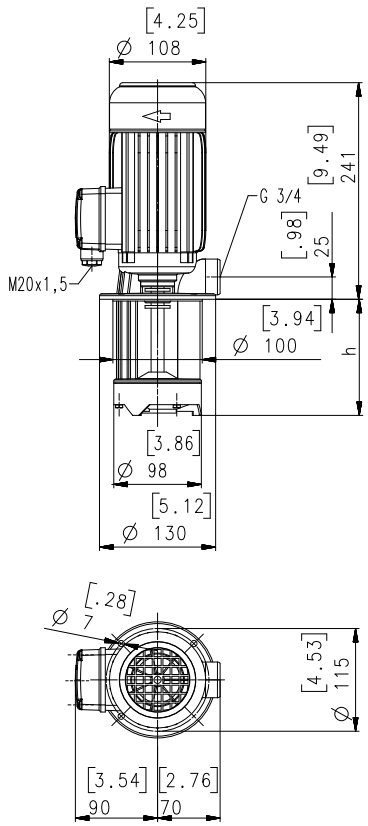
## Semi-open impellers

60 Hz

### TA40




### TA80




| Type | Flow at head GPM /Feet *l/min /m* | Depth of immersion h inch *h mm* | Thread G | Weight Lbs | *kg* | Power HP *kW* | Voltage 3 ~ V | Frequency Hz | Current AMPS | Speed RPM |
|---|---|---|---|---|---|---|---|---|---|---|
| **TA40S90** | 10/13 *35/4* | 3.54 *90* | G ½ | 10.1 | *4.6* | 0.18 *0.135* | 208-230 460 | 60 60 | 0.46 0.23 | 3250 3250 |
| **120** | | 4.72 *120* | | 10.6 | *4.8* | | | | | |
| **170** | | 6.69 *170* | | 11.0 | *5.0* | | | | | |
| **220** | | 8.66 *220* | | 11.9 | *5.4* | | | | | |
| **270** | | 10.63 *270* | G ¾ | 13.0 | *5.9* | | | | | |
| **350** | | 13.78 *350* | | 14.3 | *6.5* | | | | | |
| **TA80S120** | 20/18 *80/5.5* | 5.12 *130* | G ¾ | 15.4 | *7.0* | 0.5 *0.365* | 208-230 460 | 60 60 | 1.72 0.84 | 3400 3400 |
| **170** | | 7.09 *180* | | 15.9 | *7.2* | | | | | |
| **220** | | 9.06 *230* | | 16.3 | *7.4* | | | | | |
| **270** | | 11.02 *280* | | 16.8 | *7.6* | | | | | |
| **350** | | 14.17 *360* | | 17.4 | *7.9* | | | | | |

Dimensions in Inches /mm

60 Hz

## Immersion Pumps

are centrifugal pumps with the impeller fitted on the driving shaft extension. They are mounted on top of the container, the pump extension being immersed in the coolant.
The maximum coolant level must stay a few inches below the mounting flange.
The delivery capacities shown in the tables apply to water at 4.6 SSU (1 mm²/s) and 68°F (20°C).
For the delivery of oils, the values will decrease due to higher viscosities which result in an increased pipe resistance.

## Applications

Types of fluid
coolants
cooling/cutting oils
Kinematic viscosity
...200 SSU (...45 mm²/s)
Pumping temperature
30...140 °F (0...60 °C)

## Construction

| | |
|---|---|
| Pump body | cast iron |
| Cover | POM |
| Impeller | POM |
| Shaft | steel |

Optional:

| | |
|---|---|
| Cover | cast iron with G 1 thread |
| Impeller | cast iron |

Noise level (Motor only; Tolerance +3 dBA)

| | |
|---|---|
| TA40 | 48 dBA |
| TA80 | 56 dBA |

For position of terminal box, see mechanical features within the technical information section.
Standard for immersion pumps:
terminal box opposite to pump discharge = position 1.
Terminal box can be rotated in 90° increments.

On request G ¾ can be supplied for TA40S90 to 220 mm depth of immersion.