

Over last years, power electronics through improvements of semiconductors devices, simulations, control techniques, control hardware and software has reduced frequency inverters cost and sizes and increased functionality.



Frequency inverters (also termed variable frequency drives or AC drives) are used to control AC motor speed and torque by varying motor input frequency and voltage protecting the motor at the same time.

Simultaneously frequency inverters have many built-in functions, that make pumps operate in much more efficient and safe manner, for example:

- ✓ Dry-run protection
- ✓ PID controller for simple pressure, flow or temperature control
- ✓ Soft start reducing water hammering effect
- ✓ Pump speed adjustment for best efficiency

» ACS355 Frequency inverters

ACS355 frequency inverter is cost effective, all-purpose drive offering the best flexibility in its class. This series is available up to 22 kW in IP20 ingress protection or up to 7.5 kW in IP66 product variant for harsh environments, for use in the most demanding applications. Assistants functions enable easy start-up of the drive.

Key features of frequency inverters

- ✓ Exceptionally compact devices and uniform design
- ✓ Operating text panel with assistants, 16 languages available
- ✓ Quick and easy commissioning with pre-configured application macros
- ✓ Extension and fieldbus modules available
- ✓ Instructions and catalogs in multiple languages available
- ✓ Heavy-duty dimensioning

Key functions of frequency inverters

- ✓ Built-in dry-run protection
- ✓ Two built-in PID controllers
- ✓ Safe torque-off function (SIL3) as standard
- ✓ Built-on C3 EMC filter and brake chopper
- ✓ Sensorless vector control
- ✓ 150% overload capacity



Product code

Frequency inverter series:
ACS355T as standard unit

ACS355T

Motor power:
003 – 0,37 kW
...
220 – 22,0 kW

003

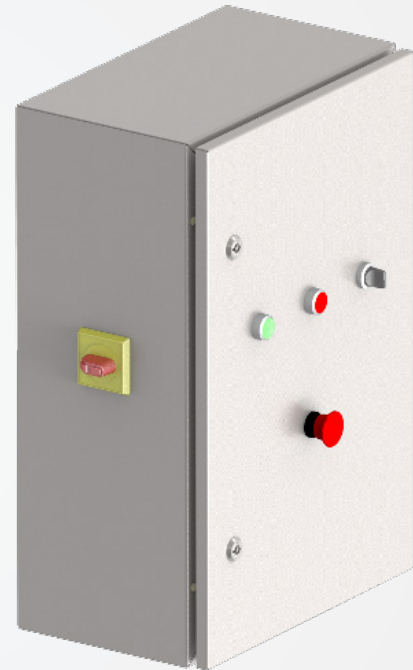
Frequency inverter for higher motor power, single phase supply or IP66 variants – on request

» Control panels

Control panels are turn-key solutions, being the best option for customers willing to use a frequency converter in their applications with the least effort. Tapflo offer includes both the standard solution and customized solutions according to customer guidelines and standards.

Standard control panels with built-in frequency inverters

- ✓ Cabinet made of stainless steel (grinded AISI304) or painted carbon steel (RAL7035)
- ✓ Cable glands made of stainless steel or polyamide
- ✓ ACS355T frequency inverter included
- ✓ Main switch - padlockable in OFF position for service purpose
- ✓ Circuit breaker protecting the supply lines
- ✓ Start and stop pushbuttons and potentiometer to control the motor
- ✓ Emergency stop pushbutton connected to safe torque-off inputs
- ✓ Thermistor connection (option)
- ✓ Inverter configuration according to customers guidelines



Product code

Cabinet version

CPS- control panel
(stainless steel)
CPI- control panel
(industrial)

Motor power

003 – 0,37 kW

...

220 – 22,0 kW

CPS

ACS355T

003

PTC

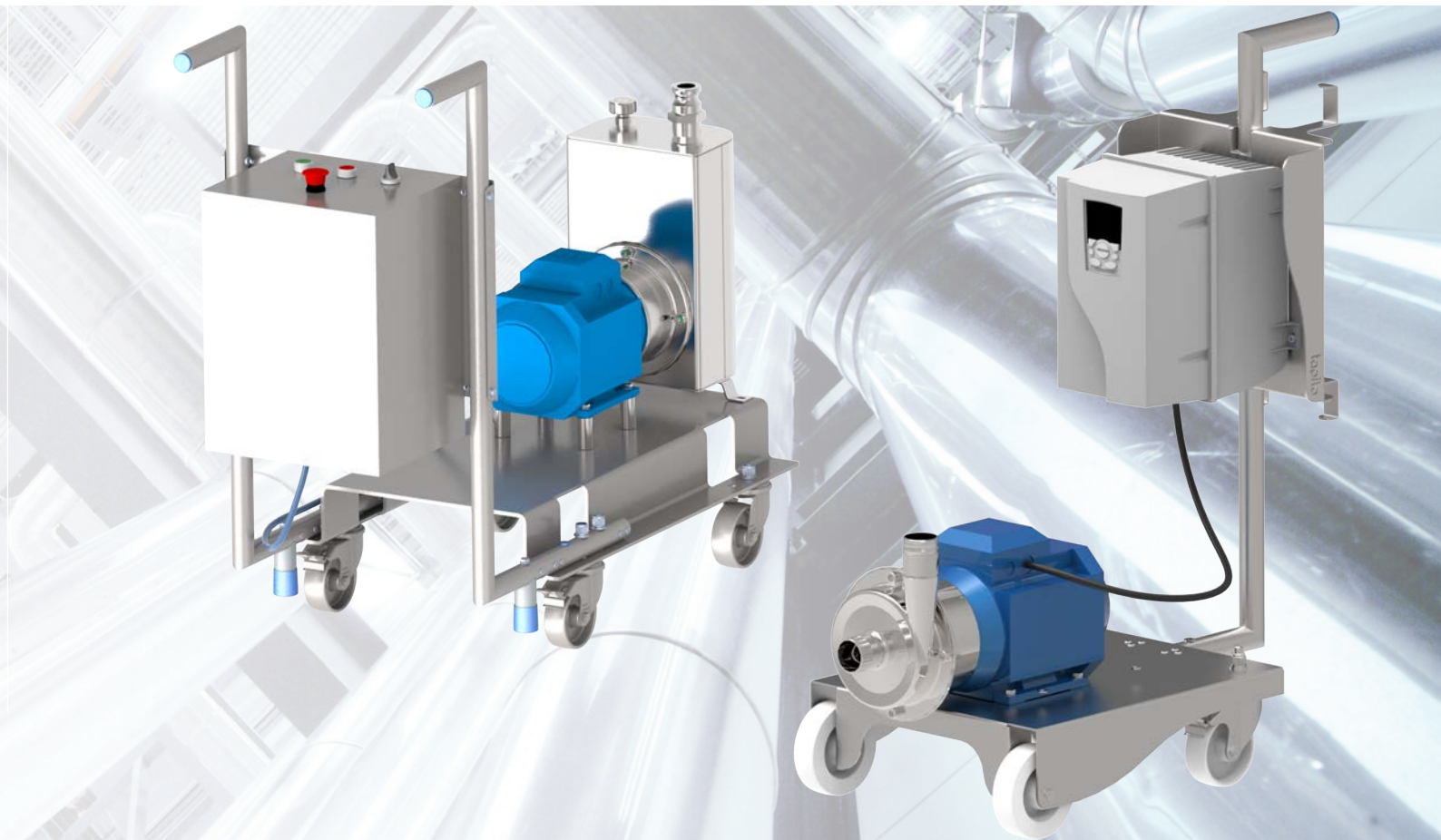
Frequency inverter series

Options

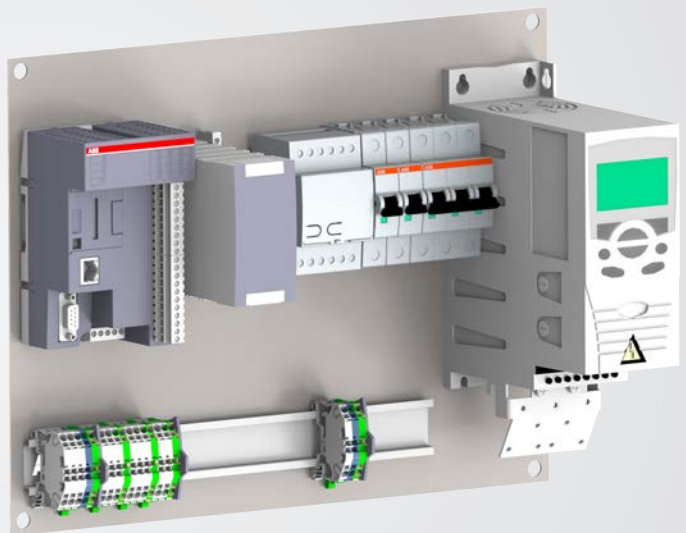
– no option

PTC – PTC connection option

Control cabinet for higher motor power – on request or special design



» Tapflo is proud to announce, that we have broaden our offer with automation and control solutions, based on programmable logic controllers HMI components, AC drives, and properly selected sensors to meet customers application requirements.



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