

CONTROL 
TECHNIQUES



PUMP DRIVE F600

SIMPLE, RELIABLE FLOW CONTROL
AC DRIVES, SPECIALIST

NEW

DRIVE OBSESSED

SPECIALIST PUMP DRIVE

ALL THE RELIABILITY AND EFFICIENCY YOU WILL EVER NEED

Control Techniques has set the standards in motor control since 1973.

Applications involving the flow of water demand extreme reliability and low energy consumption. Control Techniques' F600, part of the newly introduced Specialist series of industry-specific drive technologies, builds on our company's five decades of drives expertise, delivering precise, dependable flow control.

Everything you need is baked into the drive itself. The F600 packs all of the features you'll need, presented using terminology you'll understand. This isn't a generic drive with pump features tacked on; it's a dedicated, specialist pump drive, designed from the ground up to deliver the reliability and efficiency you need.

Free 5 year warranty*

Drives in the F600 range are eligible for Control Techniques' extended warranty, at no extra cost. It is a testament to our exceptional track record for reliability, giving you total peace of mind that your investment is protected and your site will continue to run uninterrupted.



* Warranty terms and conditions apply



Features

Speaks your language

F600 is tuned to suit your every need, optimised for minimal setup time yet sacrificing none of the flexibility. Whatever the challenge, our dedicated approach to clear parameter naming and structuring ensures we not only have the answers, but in a format you'll understand.

Energy savings - unlocking the potential

On average 85% of a pump's life cycle cost is attributed to its energy consumption, so optimising the energy usage can mean a significant reduction in the total cost of ownership. F600 thrives on delivering more efficient ways of operating your variable torque application. You'll see the benefits in reduced running costs and lower energy requirements.

The F600 can also control the most efficient motors available, meeting IE5 efficiency levels, such as the Nidec Leroy Somer Dyneo+ hybrid permanent-magnet motor. With all of this combined, the F600 is your best choice to save you money every day.

Engineered for your application

The F600 offers a host of dedicated features including dry-run prevention, pipe fill, pump cleaning, over-cycling protection and level switch control. A range of different control modes covering single pumps and different parallel pump configurations make Control Techniques' F600 a truly versatile solution.

Drive ratings

Pump Drive F600	200 V	400 V	575 V	690 V
	Single drive	Single drive	Single drive	Single drive
Nominal Current	6.6 – 360 A	3.4 – 865 A	3.9 – 315 A	23 – 305 A
Nominal Power	1.1 – 110 kW 1.5 – 150 hp	1.1 – 500 kW 1.5 – 700 hp	2.2 – 250 kW 3 – 350 hp	18.5 – 280 kW 25 – 400 hp
Overload	Maximum overload 110%			
Input Voltage	3 phase 200 – 240 Vac, 50-60 Hz $\pm 10\%$	3 phase 380 – 480 Vac, 50-60 Hz $\pm 10\%$	3 phase 500 – 575 Vac, 50-60 Hz $\pm 10\%$	3 phase 500 – 690 Vac, 50-60 Hz $\pm 10\%$

Key features of the Pump Drive F600



Multi-language LCD keypad:

- Hand, Off and Auto controls for ease of commissioning
- Built-in real-time clock for run time scheduling



Dedicated pump functions:

- Low Load Power Saving
- Demand-based sleep mode
- Cascade and Multi-leader control modes for parallel pump systems
- No-flow detection
- Over-cycling protection
- Pipe fill
- Cleaning / de-ragging



Guided setup screens for pumps within Connect software tool



Endless flexibility and connectivity via System Integration modules:

- Additional I/O
- Encoder feedback
- EtherNet/IP
- PROFINET
- Modbus/TCP
- EtherCAT
- CANopen
- ... and many more



Additional features as standard:

- PM motor control
- Conformal coating
- Modbus RTU
- Fire mode

Global support network

Control Techniques has drive specialists in 46 countries, meaning you'll get access to the finest engineering talent wherever you are in the world.

Nidec

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