

Drives

Catalogue

AC Drives

Soft Starters

DC Drives

Software



imagine making the impossible possible

A wide choice of AC Drives, Soft Starters and DC Drives

Our sophisticated products are supplied to satisfied customers all over the world and are used in all kinds of applications from simple to extremely complex systems. So, you don't have to imagine a drive so clever, it's simple with our wide choice of AC drives, soft starters and DC drives. Add to this, a strong sales team comprised entirely of degree qualified engineers, an absolute commitment to innovation and 5% of our total sales continuously re-invested in research and development: We can and do imagine making the impossible possible for our customers.



AC Drives

A wide range of variable speed drives for AC induction motors with Output Power Ratings from 0.18kW/0.25HP up to 2100kW/2800HP.



Soft Starters

A complete range of micro-processor based Soft Starters with Output Power Ratings from 1.1kW/1.5HP up to 1850kW/2500HP with standard internal By-Pass Relay.



imagine a drive so
clever, it's simple

invenys
Eurotherm

- From simple applications to complex systems
- Easy installation and operation
- Dynamic performance
- Flexible programming
- High accuracy



DC Drives

Analogue and Digital, 1- and 4-quadrant, variable speed drives with internal field controller and universal speed feedback inputs. Armature current ranges from 3.4Amp to 2250Amp



Software

Almost every AC Drive, DC Drive and Soft Starter can be commissioned and configured by software supplied free of charge and downloadable.



AC Drives

A wide range of variable speed drives for AC induction motors with Output Power Ratings from 0.18kW/0.25HP up to 2100kW/2800HP.

A complete range of different models to be used from simple applications up to complex system solutions where high accuracy and dynamic performance are required. Control modes like V/Hz, Sensorless Vector and Close Loop Vector are all available.

A large number of Fieldbus interfaces and internal PLC programming functionality are offered for system integration. For regenerative applications an Active Front End (AFE) is available, and all models are standard equipped with an internal PID control loop for automatic Flow, Pressure and Level control applications.

The models ERCFW08, ERCFW09 and ERCFW11 are most suitable for system integration. On all models we offer a number of Fieldbus interfaces and internal PLC programming functionality and is available for some models.



Variable Speed Drive - ERCFW08 Series



- State of the Art Technology
- Hardware with SMD components V/Hz or Sensor Vector Control
- Sinusoidal SVM - Space Vector Modulation
- IGBT modules of latest generation
- Silent motor running
- Interface with touching membrane keypad
- Flexible programming
- Compact dimensions
- Easy installation and Operation
- High starting torque
- Kit for conduit installation

These Variable Speed Drives (VSDs) incorporate the most advanced technology and full features in a compact product, with a host of special functions available. Power Ratings up to 15kW/20HP.

Variable Speed Drive - ERCFW09 Series



- Flexible control options with Vectrue Technology™ control
- More compact, economic solution utilising Optimal Braking™ technology
- Optional PLC functionality built-in
- Detachable SMART keypad with dual display (LCD and LED)
- Variable and constant torque ratings
- On/offline PC programming utilising Superdrive Software
- Fieldbus communications
- V/Hz, Sensorless Vector and Close Loop Vector Control performance
- 32 bit RISC processor

The ERCFW09 Series of Variable Speed Drives incorporates the world's most advanced technology in drives for three-phase AC induction motors. Power Ratings up to 1100kW/1500HP.

Variable Speed Drive - ERCFW10 Series



- High speed DSP (Digital Signal Processor) enabling high performance operation and fast response
- Electronics with SMD components
- Sinusoidal PWM modulation- Space Vector Modulation
- Latest generation IGBT modules
- Considerable motor noise reduction
- Interface with membrane keypad (local)
- Compact dimensions
- Easy installation and operation
- High starting torque

Designed for the control and speed variation of three-phase induction motors, ERCFW10 drives unite modern design and technology - providing compactness and simplicity with a flexible programming facility. Power Ratings up to 2.2kW/3.0HP.

Variable Speed Drive - ERCFW11 Series



- State of the Art Technology for three phase induction motors
- Excellent performance, providing increased productivity
- Plug and play option modules
- Versatile communication support
- Standard Memory module for parameter/ program storage
- Large number of Analogue and Digital I/O for system integration
- Internal DC choke standard
- Standard USB port for Programming/Monitoring
- Accurate speed synchronization function
- Permanent Magnet Motor (PM) Control for applications requiring high torque and improved efficiency

The ERCFW-11 Series are variable speed Drives can be used in a vast range of applications, since it is designed for running on either Normal or Heavy Duty Cycle loads. Soft PLC standard and Power Ratings up to 2100kW/2800HP.

Soft Starters

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Eurotherm

A complete range of micro-processor based Soft Starters with Output Power Ratings from 0.55kW/0.75HP up to 1850kW/2800HP.

Available with internal By-Pass Relay standard for all models, Fieldbus communication, intelligent pump control, optimised motor starting torque, electronic motor protection, etc. ERSSW series soft starters are static starters designed for the acceleration, deceleration and protection of three phase induction motors. This series is based on microprocessors with state-of-the-art design for the best starting performance and a low cost complete solution.

The control of voltage applied to the motor, by means of thyristor firing angle variation, enables smooth starting and stopping. With proper adjustments it is possible to optimise the motor starting torque so that the starting current remains as low as possible.

3-wire (Star or Delta) and 6-wire (inside Delta) connections to the motor are possible.

Remote HMI with parameter copy function for mounting in cabinet door or at the front of the soft starter are available.



Soft Starters - ERSSW05 Series



- 3.7kW-1950kW/5HP-2600HP
- Electronic integral motor protection
- Built-in electronic overload relay
- Built-in operator interface (keypad)
- Inrush current limitation
- Line voltage drop limitation
- Mechanical shock elimination
- Increased motor and mechanical parts life
- Electrical wiring simplification
- Serial communication
- Configurable by using ER Superdrive Software

The ERSSW05 Plus Micro Soft-Starters, with Digital Signal Processor (DSP) control have been designed to supply an excellent performance during starting and stopping of electric motors with excellent cost/benefit ratio. Internal By-Pass Relay standard. Power Ratings up to 45kW/60HP.

Soft Starters - ERSSW06 Series



- All motor protections built-in
- Digital DSP
- Easy operation through operator interface
- High efficiency
- Simple electrical wiring
- Intelligent pump control feature
- Optional Soft PLC to be able to Start multiple motors one after the other by using only 1 soft starter
- Fieldbus communication (Profibus DP, DeviceNet)
- Available for both 3-wire and 6-wire configurations
- Configurable by using ER Superdrive G2 Software

The ERSSW06 Soft Starters offer the highest performance during starting and stopping of electric motors. Different starting/ stopping modes can be configured including Starting with Torque limitation Power Ratings up to 1850kW/2500HP

Soft Starters - ERSSW07 Series



- Electronic motor protection
- Limits current inrush
- Limits line voltage drop
- Pump Control feature avoids pipeline water hammer
- Simplified electrical wiring
- Integral and remote operator interface enables easy parameter adjustment - easy start-up and operation
- Multi-motor starting
- Kick-start function for heavy duty and functional loads with high starting torque
- Configurable by using ER Superdrive G2 Software

The ERSSW07 Soft Starter series is compact and offers advanced functionality combined with modular design that makes it possible to add options as required. Power Ratings up to 150kW/200HP

DC Drives

The DC Drive product range can be used to control DC shunt and DC permanent magnet motors and offers a wider choice of variable speed DC drives than any other manufacturer.

The range has over 50 models with Armature current ratings up to 2250 Amps.

For higher armature currents (up to 3000 Amps) we can offer a Digital, DC stack driver unit with external thyristor stack.

Both the Analog and Digital, 1- and 4-quadrant, DC-Drives have an internal field controller and universal speed feedback inputs (pulse encoder, tacho and armature voltage).

Analog DC Drives: The Din-rail mounted analog Series (ER-340/680/1220) is available for armature currents from 3.4A up to 12.2A in both 1- and 4-quadrant, non-isolated and isolated versions.

The panel mounted analog Series (ER-3200i and ER3600XRi) is available for armature currents from 4A up to 48A in both 1- and 4-quadrant isolated versions.

Digital DC Drives: This range is probably the most powerful drive on the market today including 2-quadrant (most ER-PL models) and 4-quadrant versions (all ERPLX models), internal field controller and fully programmable function blocks and soft wiring. (ER-PL/ER-PLX).

A number of predefined application function blocks are available as standard for winders, section control, diameter calculation, etc. Armature Current outputs are available up to 2250 Amps. The optional Fieldbus communication can be used for complete system integration.



Variable Speed DC Drives - ER-340/680/1200 Series



- Range of 1 and 4 quadrant DC Drives
- Power rating 0.55kW-1.9kW @ 180V dc
- Compact design
- Can be used in speed or current control modes
- Compact design
- CE, UL, and cUL approved

The ER-340, ER-680 and ER-1220 series are series of speed controllers for shunt wound or permanent magnet motors, utilising speed feedback from the armature voltage, or from a shaft mounted tachogenerator. Armature Currents up to 12.2 Amp.

Variable Speed DC Drives - ER-3200i/3600XRi Series



- 1-quadrant power ratings 2.2kW-11kW @320V dc
- 4-quadrant power ratings 1.1kW-9.5kW @320V dc
- CE, CSA, UL and cUL approved

The units employ closed loop control with both Armature Voltage feedback voltage and DC Tacho feedback to achieve precise control of the motor torque and speed. Armature Currents up to 48 Amp.

Variable Speed DC Drives - ER-PL/PLX Series



- 40 character alpha-numeric, back-lit display
- Integral display
- Full suite of centre winding blocks
- Diameter control and field weakener for extended speed range applications
- Motorised potentiometer with memory
- 2 x PID loops and 2 x totalisers, freely programmable
- Delay timer
- Current profiling
- Batch counter
- Autotune for current loop

The digital DC drives ER-PL and ER-PLX are probably the most powerful on the market today. With an extensive range of standard software blocks, they can take control of the most demanding motion tasks. Available in both 2- and 4-quadrant versions, the range comprises of 5 very compact chassis sizes. Armature Currents up to 2250 Amp.

- ER SDW Soft Starter Sizing Software:
 - Selection of various Soft Starter applications with their specific characteristics.
 - Soft Starters will be sized based on specified start conditions and motor specifications, required options, etc.
 - Used to select the correct Soft Starter product based on motor specification, application, operating conditions (overload, number of starts per hour, etc.)
- ER Superdrive Software for AC Drives and Soft Starters:
 - Parameter transfer from PC to the drive
 - Parameter transfer from drive to the PC enabling backup of configuration
 - Used for Monitoring, Parameterization, Operation and Commissioning of all Eurotherm Inverters and Soft Starters
- SAVVY Software for ER-PL/ER-PLX, Digital, DC Drives:
 - Easy, intuitive, platform independent, Java based, software runs under Windows, Mac OSX, Unix, Linux
 - Online or Offline design of DC Drive configuration using intuitive graphical tools with pre-engineered function blocks and soft wiring
- ER-PL PILOT Software for ER-PL/ER-PLX, Digital, DC Drives:
 - Cost effective and easy to use
 - Recipe creation and functionality

A range of software designed for the configuration or specification of the Eurotherm range of AC Drives, Soft Starters and DC Drives.



Software - ER SDW and ER Superdrive



ER SDW Software

- Presentation of Voltage, Current, Torque charts
- Specifies optimum Parameter settings based on input characteristics

ER Software

- Save and Restore function of all Parameter settings
- Trace function (Superdrive G2 Software) simulates a 4-channel oscilloscope for commissioning purposes
- Automatic identification of connected instrument
- Off-Line editing of parameter settings

ER SDW Soft Starter Sizing Software

Software designed to help with the sizing and specification of the Eurotherm Soft Starters.

ER Superdrive Software

Software for Windows environment, enabling parameter setting, command and monitoring of drives (AC Drives and Soft Starters).

Graphical Function Block Programming - SAVVY



- Full ER-PL(X), DC-Drive configuration, operation, monitoring and diagnostic functionality
- Internet access to Drives and Systems for remote configuration, monitoring and diagnostics
- Drive configuration "cloning"
- Fully documented application with the ability to annotate drawings
- Communication through standard ER-PL(X) serial port or Ethernet (optional)
- Automated software updates

The graphical Signal Flow Diagram (SFD) programming option adds powerful system design and documentation features with function blocks, user wiring, monitoring and trending. To be used with ER-PL/ER-PLX, Digital, DC Drives.

Configuration and Diagnostic - ER-PL_PILOT







- No programming knowledge required
- Off line creation of recipes, parameter settings and function block connections
- Monitoring, Diagnostics and commissioning tool
- Supplied free of charge
- Easy to use

Software which makes interconnecting the drive's application blocks a simple task and enables the user to tailor the drive's control strategy to exactly meet the demands of the process or application. To be used with ER-PL/ER-PLX, Digital, DC Drives.




Selection guides



AC Drives	Variable Speed Drive			
				
Features	ERCFW08	ERCFW09	ERCFW10	ERCFW11
Power Rating	0.18-15kW, 0.25-20HP	0.1-1100kW, 1.5-1500HP	0.18-2.2kW, 1.5-3.0HP	1.1-2100kW, 1.5-2800HP
Supply Voltage	200-240V 1- and 3-Phase 380-480V 3-Phase	220-690V	110-240V 1-Phase	200-240V 1- and 3-Phase 380-480V 3-Phase 690V 3-Phase
Display	Integral, Remote	Integral, Detachable	Integral	Integral, Remote
Phases	1-Phase or 3-Phase	1-Phase or 3-Phase	1-Phase	1-Phase or 3-Phase
Control Mode	V/Hz, Sensorless, Vector	V/Hz, Sensorless, Vector, Closed loop vector	V/Hz	V/Hz, Sensorless, Vector, Closed loop vector
Communication	Modbus RTU, CanOpen, DeviceNet	Profibus DP, DeviceNet, Ethernet/IP, Modbus RTU	none	Profibus DP, DeviceNet, Ethernet/IP, Modbus RTU
Configuration Software	ER Superdrive	ER Superdrive	none	ER G2 Superdrive

Soft Starters			
	ERSSW05	ERSSW06	ERSSW07
Features	ERSSW05	ERSSW06	ERSSW07
Power Rating	0.55-55kW, 0.74-75HP	55-1850kW, 75-2500HP	7.5-150kW, 75-200HP
Supply Voltage	220-575V	220-575V	220-575V
Display	Remote	Integral, Remote	Integral, Remote
Phases	3-Phase	3-Phase	3-Phase
Communication	RS232	Modbus RTU/Profibus DP/DeviceNet	Modbus RTU/Profibus DP/DeviceNet
Configuration/Sizing Software	ER Superdrive, SDW Sizing	ER G2 Superdrive, SDW Sizing	ER G2 Superdrive, SDW Sizing



DC Drives	Variable Speed Drive		
			
Features	ER-340/-680/-1200	ER-3200i/3600XRi	ER-PL/ER-PLX
Power Rating	0.55-1.8kW (at 180V armature voltage)	2.2-11kW (at 320V armature voltage)	15-1000kW (at 460V armature voltage)
Supply Voltage	110-240V, 30-60V	240-415V, 30-60V	100-480V, 100-690V
Phases	1-Phase	1-Phase	3-Phase
Control Mode	1- and 4-Quadrant	1- and 4-Quadrant	1- and 4-Quadrant
Communication	none	none	Profibus DP, DeviceNet, CANopen, Modbus RTU
Armature Current	3.4-12.2A	4-48A	36-2250A
Configuration Software	none	none	ER-PL Pilot and SAVVY

Software	SuperDrive	Soft Starter Sizing	Graphical Function Block Programming	Configuration and Diagnostic
				
	ER Superdrive ER Superdrive G2	SDW	SAVVY	ER-PL PILOT

Applications

Eurotherm is also offering Products and Solutions in chosen Vertical Markets where we are able to offer a complete solution to our customers. Technical expertise and detailed application knowledge are our trademark. Drives products from Eurotherm are commonly used in those Vertical Markets offering a seamless integration.

Life Sciences



- Fermentors
- Autoclaves
- Sterilizers
- Chillers
- Stirrers & Agitators
- BMS (HVAC) System

Heat Treatment



- Fans and Pumps
- Rolling Mills
- Laminators
- Rotating Furnaces
- Slitters and Perforators

Glass



- Coating line Speed Control
- Conveyors
- Cooling Fans
- Rollout Tables
- Top roller Speed Control (float bath)
- Mixers (batch house)

Plastics & Rubber



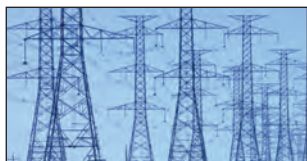
- Extruders
- Chillers
- Gear Pumps
- Winders/Unwinders
- Mixers
- Calenders

Water/Waste Water



- Pumps (Speed Control)
- Pumps (Soft Starter Control)
- Regenerative System

Renewable Energy and Energy Efficiency



- Reducing peak Power by Soft Starter control of Fans and Pumps
- Energy saving using VFD's to control Fans and Pumps
- Regenerative System

The ERCFW11 Frequency Inverter can be used in both simple and sophisticated applications, due to its broad range of functions and easy configuration, installation and operation. The ERCFW11, through its Vectrue Inverter™ technology, presents excellent static and dynamic performance, precise torque and speed control, dynamic response, positioning precision, and high overload capacity.

The ERCFW11 is also developed for applications where the decisive factor is safety, through several built-in protections and alarms as well as through the Safety Stop function in accordance with EN 954-1, category III.

A Soft PLC is standard for advanced calculations, PLC functions, function block programming and pre defined application programs.

On these pages you will see a number of applications where the Eurotherm Inverters have been delivered.

Multi-Pump Control

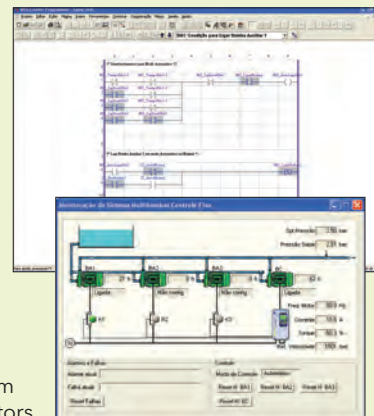
The ERCFW-11 permits the system to maintain the line pressure of a pipe constant, regardless of flow demand fluctuations.

This allows the system to use only the necessary number of pumps to supply its demand. It controls the speed of one of the pumps, turning the others on and off according to demand.

Besides controlling the system output pressure, it also monitors the suction pressure and the captation tank level.

The ERCFW-11 automatically alternates the pump that is running according to the number of hours each one has been operating, as to ensure uniform use.

This Multi-Pump Control is available free of charge through a SoftPLC function application software available on the Eurotherm site.



Compressors

- Optimisation of system pressurisation control with energy savings and improvement of compressor efficiency
- Reduction of motor startup current minimising the wear and tear of the mechanical system permitting a reduction of maintenance
- Possibility of safety and maintenance signaling and alarms of pressurisation system
- Provides startup system control of other compressor units with an increased efficiency of the pressurisation system



Paper and Cellulose / Wood

- Display with three parameters visualised at the same time. USB communication in the front of the inverter for data gathering and programming
- Elevated degree of compactness, permitting the assembly of several inverters in reduced space. Modular inverters for large powers, providing an excellent power vs. volume ratio
- Flexible hardware programming and configuration, facilitating applications using synchronisation
- Highly precise speed and torque control
- Network communication with main market protocols
- Quick and simplified programming
- Highly reliable and robust



Sugar and Alcohol

- Modular and compact
- 12-pulse rectifier for reduction of harmonics
- Regenerative rectifier for centrifuges
- Highly robust and durable



Hoist and cranes

- SoftPLC function
- Three modes of vector control
- Highly compact.
- Intelligent control of ventilation system



Pumps and Fans

- Precise control of process variables (pressure, flow, temperature, etc.) through a PID controller added to the speed control loop
- Optimisation of power consumption through speed control with an adjustable V/f curve
- Possibility of safety and maintenance signaling and alarms of pumps and fans
- Availability of PID controllers to control other process variables like valves, dampers, other frequency inverters, etc



Refrigeration

- SoftPLC function built into the standard product enabling the use of two controllers simultaneously. This characteristic is for HVAC applications
- Display of three parameters visualised at the same time
- USB communication in the front of the inverter for data gathering and programming



Chemical and Petrochemical

- Highly reliable and robust.
- Elevated degree of compactness, permitting the assembly of several inverters in reduced space. Modular inverters for large powers, providing an excellent power vs. volume ratio
- Plug-and-play system for additional modules, ensuring increased flexibility in adapting to existing systems
- Network communication, with the most used and renowned market protocols



Cement and Mining

- Robust hardware and large overload capacity (models dimensioned in HD)
- Elevated degree of compactness, permitting the assembly of several inverters in reduced space. Modular inverters for large powers, providing an excellent power vs. volume ratio
- Network communication, with the main protocols available on the market



Process Machines

- Built-in PLC and Real Time Clock
- High connectivity
- Fieldbus
- Highly precise speed and torque at all speed ranges
- User friendly interface and programming



Steel Industry

- Highly precise speed and torque control
- Large overload capacity (models dimensioned in HD)
- Flexible hardware programming and configuration, facilitating applications needing synchronisation
- Network communication with the main market protocols
- Elevated degree of compactness, permitting the assembly of several inverters in reduced space. Modular inverters for large powers, providing an excellent power vs. volume ratio



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