

ProTouch GEFRAN



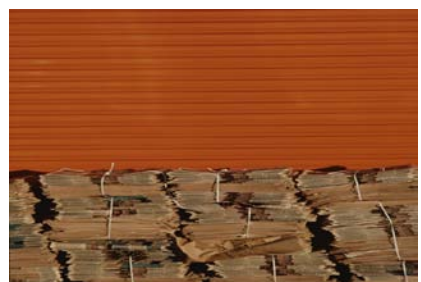
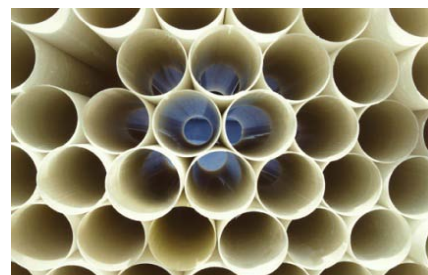
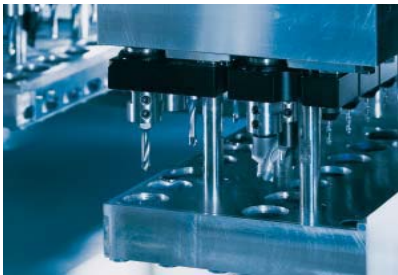
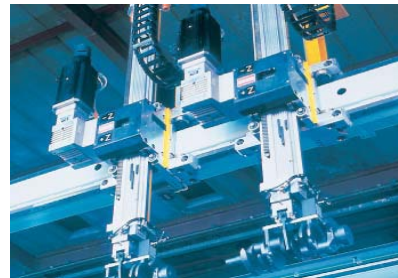
SIEMENS

Rexroth  
Bosch Group



SICK  
Sensor Intelligence.

# A Total Solution for Industrial Automation



Modbus



CANopen

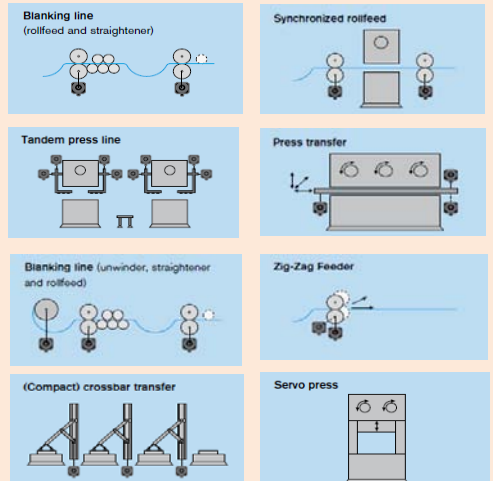


## A Total Motion Solution from Bosch Rexroth



**Rexroth IndraDrive – more complete, more intelligent, greater safety**

You are probably wondering, how can something be "more complete" than "complete"? In fact, our IndraDrive sets new standards in drive engineering that are best described by the apparent contradiction in terms. It offers greater safety, more intelligent functionality, and it really does come "more complete" with software and hardware than any other previous drive system.



## Motion IndraDrive - Frequency Converter



### Convo series AC Drive

*Low Cost Drive*  
 Single Phase/ 3 Phase  
 0.37kW to 15kW  
 1x230Vac, 3x230Vac, 3x415Vac  
 Pumps & Fans Application  
 General Purpose Application



### Fe series Ac Drive

*Constant Torque Inverter*  
 3 Phase 380-480Vac +/- 10-15%  
 From 0.75kW to 315kW  
 Pumps & Fans Application  
 All General Purpose Industri.  
 CE,UL,cUL Marking Approval



### IndraDrive HCS04

*3 Phase 380-480Vac Only*  
 From 0.75kW to 315kW  
 Pumps & Fans Application  
 All General Purpose Industri.  
 CE,UL,cUL Marking Approval



### FCs Flux Drive

*Compact, high-performance*  
 c/w PLC program function  
 400W to 7.5kW  
 1 PH 220Vac/ 3PH 400Vac  
 CE,UL,cUL Marking Approval



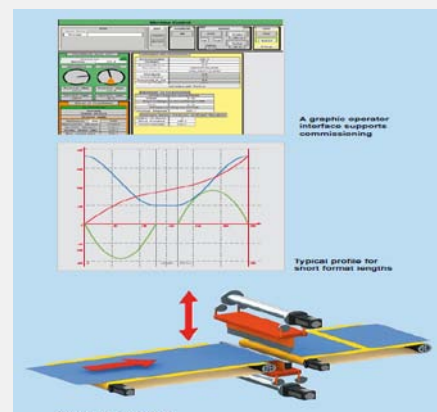
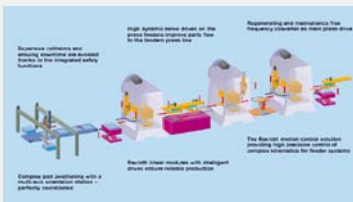
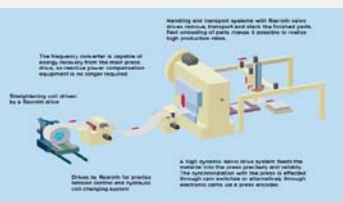
### IndraDrive HCS02/03

*Compact, high-performance*  
 c/w PLC program  
 0.75kW to 630kW  
 3 Phase 415Vac



### Servo Motor

## Sample Application Notes





### Products range included;

- Siemens Simatic PLC - S7 200 series, Siemens S7 300 series & S7 400 series
- Siemens S5 spare parts, Contactor, MCB, Frequency Drive & Softstarter.
- Touch panel - HMI & Operation panel
- Field I/O and remote IO
- Software and cable

SIMATIC

Answer For Industrial



## HMI

### EASY VIEW TOUCH PANEL



	Model	MT6050	MT6050i
Display	Display	4.3" TFT	6.0" TFT
	Resolution	480x272	320x240
	Brightness (cd/m²)	430	300
	Contrast Ratio	500:1	300:1
Touch Panel	Backlight Type	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr
	Type	4-wire Resistive Type	4-wire Resistive Type
Memory	Storage (MB)	128	128
	RAM (MB)	32	32
I/O Port	Processor	RISC 400MHz	RISC 400MHz
	SD Card Slot	N/A	N/A
	USB Host	N/A	N/A
	USB Client	USB 1.1 x 1	USB 2.0 x 1
	Ethernet	N/A	N/A
Power	COM Port	COM1 (RS232) COM2 (RS485)	COM1 (RS232) COM2 (RS485)
	Audio	N/A	N/A
	BTC	N/A	N/A
	Input Power	24x20% VDC	24x20% VDC
Power Consumption	Power Consumption	250mA	250mA
	Panel Cutout (mm)	110x85	120x130
	Weight (kg)	0.35	0.55

	Model	MT6070H	MT6100i	MT6100i
Display	Display	7" TFT	15" TFT	15" TFT
	Resolution	800x480	800x480	800x480
	Brightness (cd/m²)	300	350	350
	Contrast Ratio	500:1	300:1	300:1
Touch Panel	Backlight Type	LED	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr	30,000 hr
	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
Memory	Storage (MB)	128	128	128
	RAM (MB)	32	32	32
I/O Port	Processor	RISC 400MHz	RISC 400MHz	RISC 400MHz
	SD Card Slot	N/A	Yes	Yes
	USB Host	USB 1.1 x 1	USB 1.1 x 1	USB 1.1 x 1
	USB Client	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	N/A	10/100 Base-T	10/100 Base-T
Power	COM Port	COM1 (RS232) COM2 (RS485) COM3 (RS232) COM4 (RS485)	COM1 (RS232) COM2 (RS485)	COM1 (RS232) COM2 (RS485)
	Audio	N/A	Yes	Yes
	BTC	Yes	N/A	N/A
	Input Power	24x20% VDC	24x20% VDC	24x20% VDC
Power Consumption	Power Consumption	250mA	300mA	300mA
	Panel Cutout (mm)	102x128	192x138	250x201
	Weight (kg)	0.35	0.85	1.6

## SCADA



### GE Fanuc Scada - Cimplicity



CIMPLICITY HMI

Client/Server based HMI/SCADA solution offering event driven operation. CIMPLICITY is an ideal solution for all applications while offering enhanced operation in highly discrete environments. CIMPLICITY offers special fit functionality for applications and industries including: Automotive, Aerospace, Machining, Semiconductor, CNC, Motion Control, Consumer Packaged Goods and Power Generation.



### Proficy HMI / SCADA - CIMPLICITY

Discrete and Hybrid Manufacturing applications may be optimized by the selection an appropriate HMI/SCADA product design. CIMPLICITY offers event based operation, ideally suited to applications requiring optimized response times. Proficy HMI/SCADA - CIMPLICITY has a solid and reliable Client/Server based solution that gives you the power and security to precisely monitor and control every aspect of your operating environment, equipment and resources. Respond quickly to equipment operation issues, reduce waste and improve quality with better time-to-market and profitability.



## FAIRFORD ELECTRONIC DIGITAL SOFT STARTER (ENGLAND)



### PFE - Low cost softstarter for Small AC Induction Motors



The PFE is the latest development from fairford electronics, who have 25years of experience producing innovative designs in the softstart market.

With rating from 2.2kW to 18.5kW, the PFE is ideally placed to support the majority of AC induction motors in use today.

Model	Current (I)	Motor kW (400V)	Motor HP (460V)
PFE-02	5	2.2	3
PFE-04	7	3	5
PFE-06	9	4	6
PFE-08	12	5.5	7.5
PFE-10	16	7.5	10
PFE-12	22	11	15
PFE-14	30	15	20
PFE-16	36	18.5	25

#### Main Features Internally Bypassed.

- ✓ Reduces cost because when the Soft Starter has reached top of ramp the Thyristors are bypassed, this reduces heat and the size of the cabinet required.
- ✓ **Substitution of Star/Delta Starters.**
  - Lower maintenance costs
  - Less stress on auxiliary equipment when starting
  - Reduced down time
  - Low cost of ownership
- ✓ **Simplified Installation.** Rapid build and install time.
- ✓ **No need to change wiring configurations.** All six wires of the start delta configuration can be used to minimise installation and design costs.
- ✓ **Competitive with Star/Delta Starters.**
  - Longer life
  - Less maintenance
  - Lower cost of ownership

#### DFE

#### Low Cost, Internally Bypass Softstarter

Softstarter dFE series, from 11 up to 280kW \* Three-phase power supply: 400 V AC -15% ... 460 V AC +10%, 50/60 Hz \* Output power: from 11 to 28kW \* Protection degree: IP20, IP43 \* Perfect for use with all types of AC induction motors

#### Softstarter dFE series, from 11 up to 280kW

\* Three-phase power supply: 400 V AC -15% ... 460 V AC +10%, 50/60 Hz ±2 Hz \* Output power: from 11 to 280kW \* Protection degree: IP20, IP43 \* Perfect for use with all types of AC induction motors

#### Introduction

dFE is the right AC motor starting solution thanks to easy to use sophisticated technology. dFE is useful in a wide variety of applications: 10 selectable application settings allow reduction of start up times.

#### Main Features

- ✓ Voltage: 230V AC - 460V AC
- ✓ Current: 5 - 36A (460V)
- ✓ Control Voltage: 24VDC
- ✓ Start Time: 1 - 30s
- ✓ Stop Time: 0 - 30s
- ✓ Start Pedestal Voltage: 30% - 100%
- ✓ Standard Duty: IE: AC53B : 3-5: 355
- ✓ Industry Standard 45mm width (up to 16A)
- ✓ DIN Rail Mounting
- ✓ Two Phase Control
- ✓ Internally Bypassed
- ✓ Over Current Protected
- ✓ Designed for: CE, UL, CSA, CCC
- ✓ OEM Labelling/Branding options



Model	Current (I)	Motor kW (400V)	Motor HP (460V)
DFE-02	22	11	15
DFE-04	29	15	20
DFE-06	41	22	30
DFE-08	55	30	42
DFE-12	66	37	54
DFE-14	80	45	60
DFE-16	97	55	75
DFE-22	132	75	110
DFE-24	160	90	130
DFE-26	195	110	160
DFE-30	230	132	190
DFE-32	280	160	230
DFE-34	350	200	290
DFE-36	430	250	350
DFE-38	500	280	400

#### XFE

#### Optimising Digital Softstarter 4-1800 Ampere

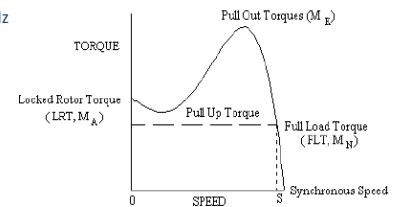
Softstarter XFE series, from 11 up to 1000kW \* Three-phase power supply: 230 V AC -15% ... 690 V AC +10%, 50/60 Hz ~{!@~}2 Hz \* Output power: from 4 to 900kW (@ 400V) \* Protection degree: IP20 \* Perfect for use with all types of AC induction motors

#### XFE Softstarter XFE series, from 11 up to 1000kW

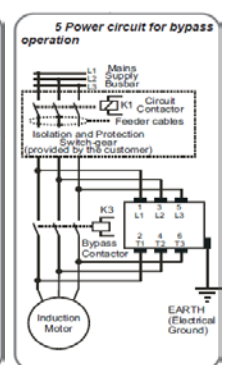
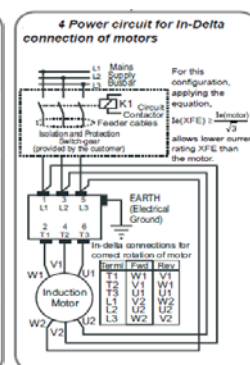
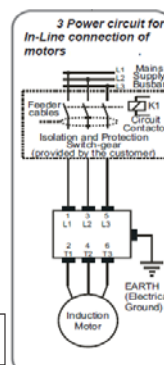
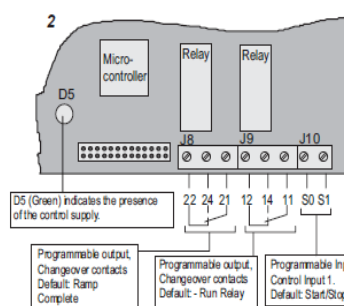
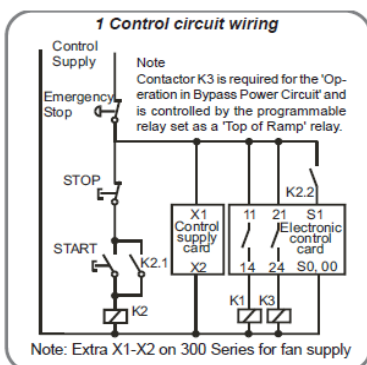
\*Three-phase power supply: 230 V AC -15% ... 690 V AC +10%, 50/60 Hz ±2 Hz \* Output power: from 4 to 1000kW (@ 400V) \* Protection degree: IP20 \* Perfect for use with all types of AC induction motors

XFE is the start/stopping device, to satisfy all your requirements with its advanced technology.

The parameter configuration via keypad or via serial line (option) makes the product highly versatile in any application and places it at the top of the range.



Basic softstarter principles



## GEFRAN SIEI DC CONVERTER & DC MOTOR



### TYPACT - TPY2/TPY3...1B,2B/4B

Three-phase single and two quadrant armature converters.

- \* Supply: 1x 230V, 1x415V, 3 x 415V, 3 x 500V, 3 x 660V
- \* Nominal currents: 20...4600A
- \* Protection degree: IP00

The power section consists of an internally controlled Graetz bridge for the power supply of medium and big DC motors with separate excitation. As for the field power supply the converter has a single-phase Graetz rectifier bridge supplied with an RC protection filter and a circuit with an excitation loss relay.

The three series, TPY3-415/480...-2B, TPY3-500/600...-2B and TPY3-660/800...-2B are different only for the maximum power supply voltage on the power section and for a part of the regulation section connected via connector cable. Starting from the 110A size, the converters are forced-ventilated. The two quadrant functioning methods with a recovery braking and the three quadrant functioning methods with a reversible field controller (TPY2...4B) require the use of devices with the "+e" option. On the converter it is possible to put up to four "y" option cards (for "TPY...2B+e" a maximum of three) on the rear side of the regulation card with an internal connection to the converter via a flat cable and a FA... connector.

### TYPACT - TPD32

Digital converters, from 20A to 4800A

- \* 3 x 230Vac...400Vac, 50/60Hz; or 3 x 230Vac...500Vac, 50/60Hz; or 3 x 230Vac...690Vac, 50/60Hz
- \* Rated currents: from 20 to 4800 A (biquadrant and tetraquadrant)
- \* IP20 (IP00 for currents over the 1050A)

The Typact-TPD32 series of digital converters is a product of the ever growing technological demands of modern industrial systems, and draws on SIEI's years of experience in the field of DC motor speed control.

TPD32 is available in a wide range of motor power ratings and power supply types for solutions using both two quadrant and four quadrant operation.

Designed to minimise user system requirements, the TPD32 offers a range of functions and dedicated application most complex requirements of modern industrial automation systems.



Modbus DeviceNet CANopen



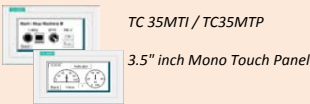
## ProTouch Open HMI

## Sensors



### ProTouch Touch Screen - 3.5" - 12.1" Inch

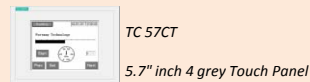
#### TC35 series



#### TC43 series



#### TC57 series



### TC70 series/TC 90 series/TC10 series&TC12 series



Specification	TC-35MTI	TC-35CT	TC-43CT	TC-57MTP	TC-70CTS	TC-90CTS	TC-10CTS	TC-12CT
Part number	TC-35MTI	TC-35CT	TC-43CT	TC-57MTP	TC-70CTS	TC-90CTS	TC-10CTS	TC-12CT
Display	3.5" TFT LCD	3.5" TFT LCD	4.3" TFT LCD	5.7" TFT LCD	7.0" TFT LCD	9.0" TFT LCD	10.4" TFT LCD	12.1" TFT LCD
Resolution	240 x 320	320 x 240	480 x 272	320 x 240	800 x 480	800 x 480	800 x 600	800 x 600
Colours	Blue/white	65536	65536	4 grey color	65536	65536	65536	65536
Back light	LED 80,000 - 100,000 hours						Powerful LED 50,000 hours	
Touch panel	4 wires resistive type							
Processor	32 bit RISC				32 bits RISC 200MHz		32 bits RISC 350MHz	
Power supply	24VDC ± 20%		24VDC ± 20%		24VDC ± 20%		24VDC ± 20%	
Power	15W		15W		15W		15W	
Brightness	130 cd/m²		280 cd/m²		350 cd/m²		330 cd/m²	
Flash Memory	64K		164K		164K		248K	
Minimum pages	50		100		300		500	
Max. per pages	40		70		150		200	
Communication port	1 x RS232, 1 x RS422/RS485		1 x RS232, 1 x RS422/RS485		1 x RS232, 1 x RS422/RS485, 1 x RS232/RS422/RS485			
CF card connector	No		No		No		Yes	
Ethernet port	No		No		No		can be request	

### FA and Process Sensors



## Others Partners...





Contact To :

