Trainer del convertitore di frequenza

Schede di azionamento AC monofase e trifase

Frequency converter

1-Phase and 3-Phase AC Drive Boards

another way to care

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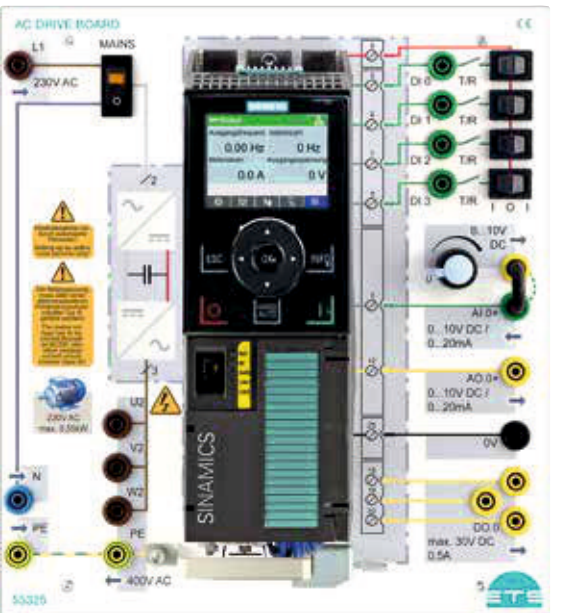
Abintrax DIDACT

FREQUENCY CONVERTER

AC Drive Board 1-phase - 230 V



1

Technical data:

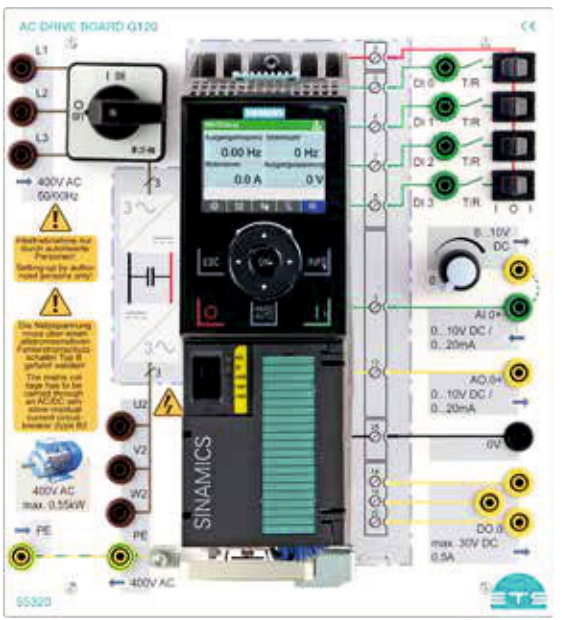
- Intelligent Operator Panel (IOP-2)
- Individual parameter setting
- Commissioning
- Surveillance of parameters during ongoing operation
- Input via 2 function keys and rotary switch
- LCD display
- Profinet interface, 2 ports with integrated switch
- DRIVE-CLiQ interface
- Control and automated control functions
- U/f linear / square / programmable
- U/f with Flux Current Control (FCC)
- Vector control, without encoder
- Vector control, with encoder
- Closed-loop torque control, without encoder
- Closed-loop torque control, with encoder
- Software functions
- 16 fixed frequencies
- Interconnecting signals with BICO technology
- Positioning ramp down
- Slip compensation
- Free function blocks for logical and arithmetic operations
- Technology control - PID
- Flying restart / JOG
- Brake funtions
- DC breaking
- Compound breaking
- Resistor breaking with integrated brake chopper
- Fail-safe stop
- Inputs and outputs
- Encoder input
- 4 digital inputs
- 1 relay output
- 1 analog input, 0-10V or 0-20mA
- 1 analog output, 0-10V or 0-20mA
- Electrical data
- Input voltage/ frequency: 200–240V / 47–63Hz
- Output voltage/ frequency: 0–230V / 0–550Hz
- Output power: 550W

No.	Designation	Order No.
1	AC Drive Board G120, 1-phase	55326


MAINS
ESC
OK
INFO
SIEMENS

FREQUENCY CONVERTER

AC Drive Board 3-phase - 400 V



1

Technical data:

- Intelligent Operator Panel (IOP-2)
- Individual parameter setting
- Commissioning
- Surveillance of parameters during ongoing operation
- Input via 2 function keys and rotary switch
- LCD display
- Profinet interface, 2 ports with integrated switch
- DRIVE-CLiQ interface
- Control and automated control functions
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- Technology control - PID
- Flying restart / JOG
- Brake funtions
- DC breaking
- Compound breaking
- Resistor breaking with integrated brake chopper
- Fail-safe stop
- Inputs and outputs
- Encoder input
- 4 digital inputs
- 1 relay output
- 1 analog input, 0-10V or 0-20mA
- 1 analog output, 0-10V or 0-20mA
- Electrical data
- Input voltage/ frequency: 200–240V / 47–63Hz
- Output voltage/ frequency: 0–230V / 0–550Hz
- Output power: 550W

No.	Designation	Order No.
1	AC Drive Board G120, 3-phase	55321


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EXPERIMENTS WITH FREQUENCY CONVERTER

AC Transfer System

1

Technical data

- AC gear motor
- 3 x 230V (delta operation)/3 x 400V (star operation)
- Heavy-duty connectors for load circuit or frequency converter
- 2 detection modules for end position recognition with 3-wire sensor, M12 connectors and supporting brackets
- 2 x M12 DI
- M12 interface, 8-fold connection
- 8 inputs on 4 x M12, for double assignment
- 8 outputs on 4 x M12, for double assignment
- Standard industry assignment: pin 4 signal 1/pin 2 signal 2
- System connection SUB D, 25-pin
- Seperate control current circuits of sensors/actuators for safety-relevant functions

Learning objectives

- for fulfilling operational tasks, for example, mounting and control of drives, automatic systems, interfaces, setup of buffer systems, signal transfer, etc.

No.	Designation	Order No.
1	AC Transfer System	80591
2	3-Phase Asynchronous Motor	57200
3	Shaft cover, closed	57154
4	Connection cable, EMC compliant (shielded), encoded for star connection	55305
5	Connection cable, EMC compliant (shielded), coded for delta circuits	55005

Three-Phase Asynchronous Motor AC

2

- Star/delta 400/230V AC, 50-60Hz, 0.25 kW
- Rated speed 1350 rpm
- Shaft end with coupling
- Fixed shaft cover
- RFID identification
- Mechanical quick-release connectors
- Inputs/outputs on 4mm or 2mm safety sockets
- Terminal box with 4-color printed front layout and front layout and switching symbols
- Winding protection with thermal contact

3

- as a protection against contact with the open shaft end while experimenting with a single machine or inertia

4

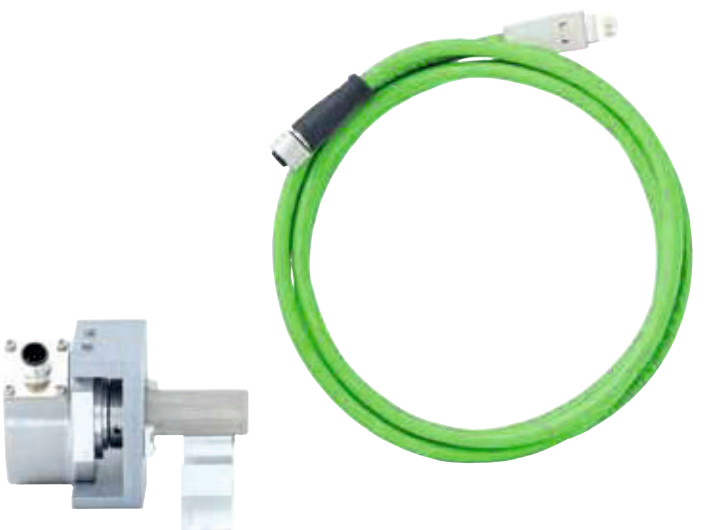
- 4-pin, shielded
- EMC compliant
- approx. 2.5 m
- encoded for star operation
- with 4 mm safety plug

5

- 4-pin, shielded
- EMC compliant
- approx. 2.5 m
- encoded for delta circuits
- with 4 mm safety plug

DriveCliq DISPLACEMENT ENCODER

for AC Transfer Systems



1

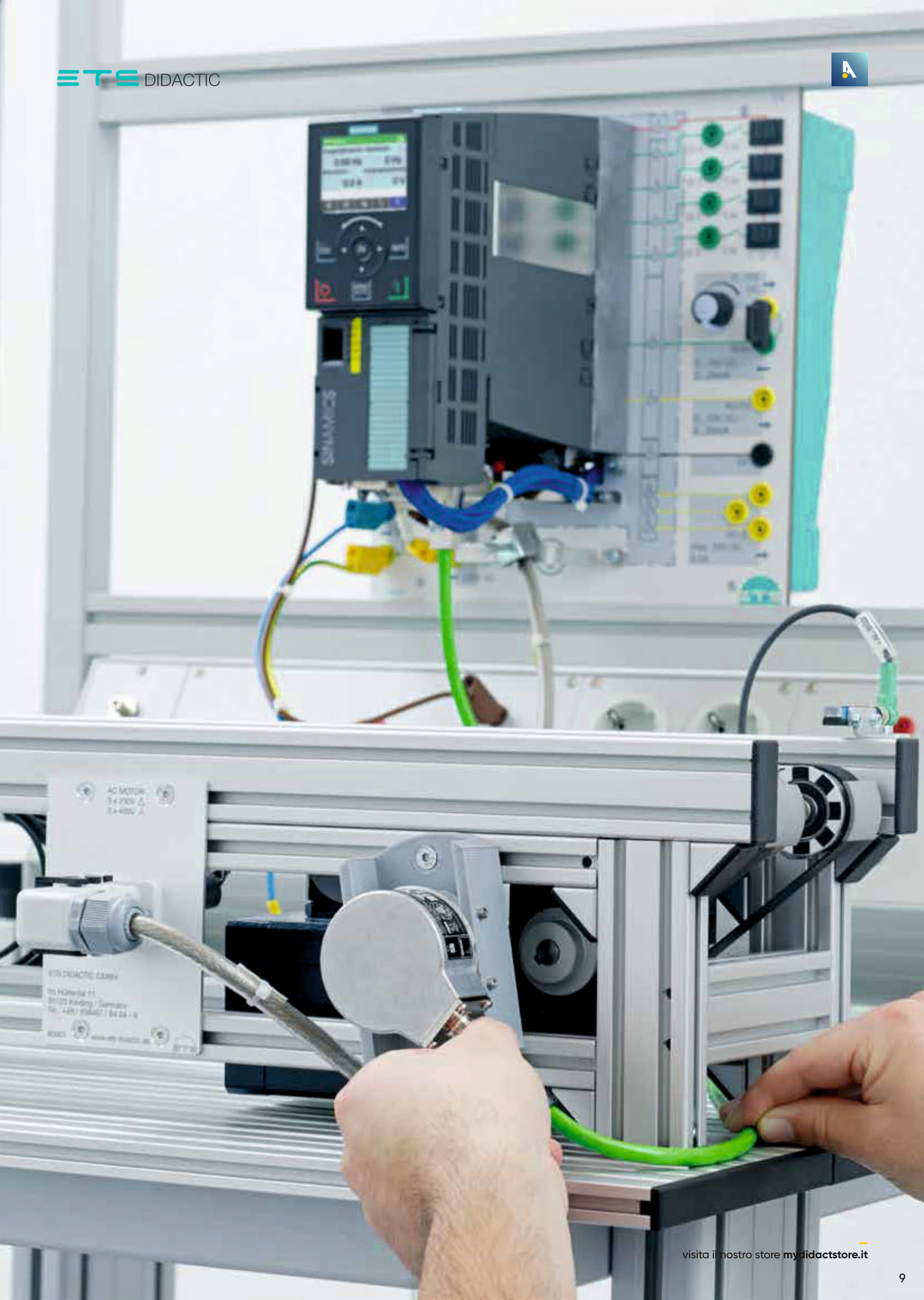
Technical data

- DriveCliq encoder (singleturn, resolution 1024)
- Removable knurled shaft for tapping the belt movement
- Adapter plate for attachment to the transfer system
- DriveCliq cable
- Fixing material
- The encoder can be automatically identified by the inverter via DriveCliq
- Automatically identifiable by the inverter (G120 is required)

Learning objectives

- Extension of transfer systems with position detection
- Parameterization of various encoders
- Understanding how encoders work

No.	Designation	Order No.
1	DriveCliq displacement encoder for AC transfer systems	80586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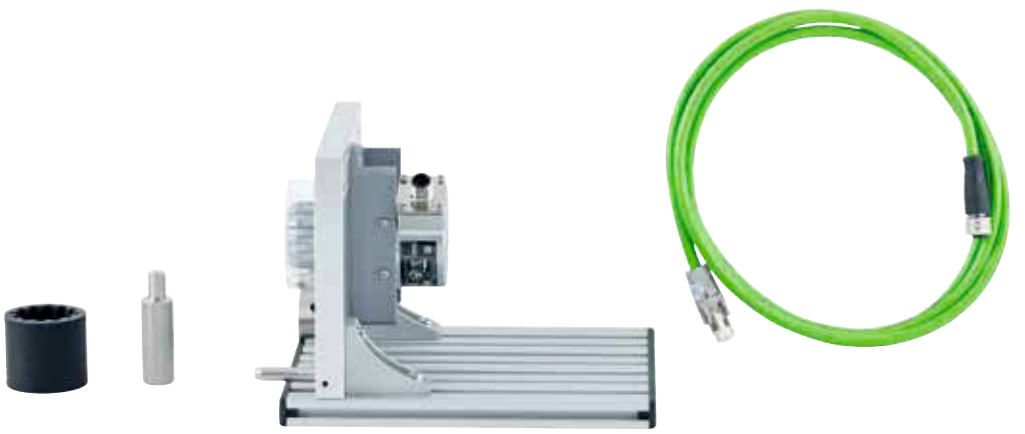
DriveCliq DISPLACEMENT ENCODER

for AC motors



1

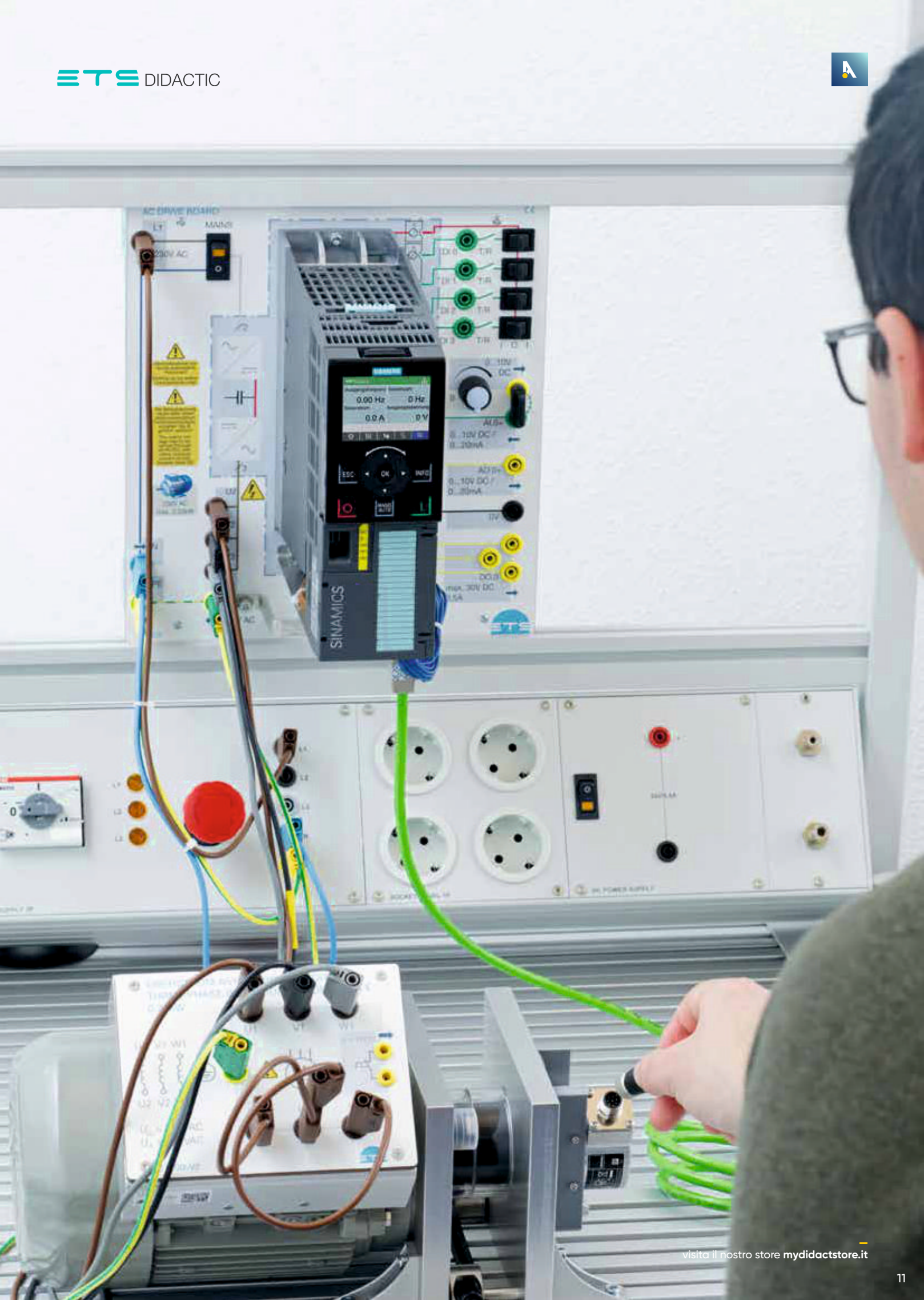
Technical data

- DriveCliq displacement encoder for AC transfer systems (80586)
- Detachable coupling half
- Coupling sleeve for connecting to AC motors
- Seat of the displacement encoder mounted on aluminum profile base plate
- Via DriveCliq, the encoder can be automatically identified by the inverter

Learning objectives

- Extension of motors with position detection
- Parameterization of various encoders
- Understanding how encoders work

No.	Designation	Order No.
1	DriveCliq displacement encoder for AC motors	80586-Z01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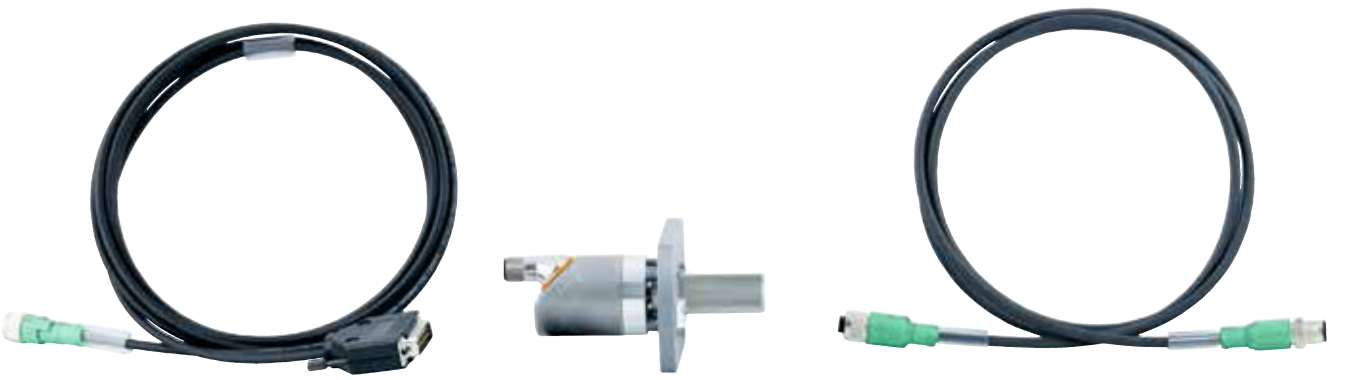
IO-LINK DISPLACEMENT ENCODER

for Transfer Systems



1

Technical data

- Encoder (singleturn, resolution 1024-10000, IO-Link, HTL/TTL)
- Removable knurled shaft for tapping the belt movement
- Adapter plate for attachment to the transfer system
- Encoder cable M12-Sub-D 15-pin
- Sensor cable M12 for connection to IO-Link master
- Fixing material
- The encoder communicates with the inverter via HTL/TTL (G120 is required)
- The encoder communicates with the PLC via IO-Link using a master
- AC and DC transfer systems can be used

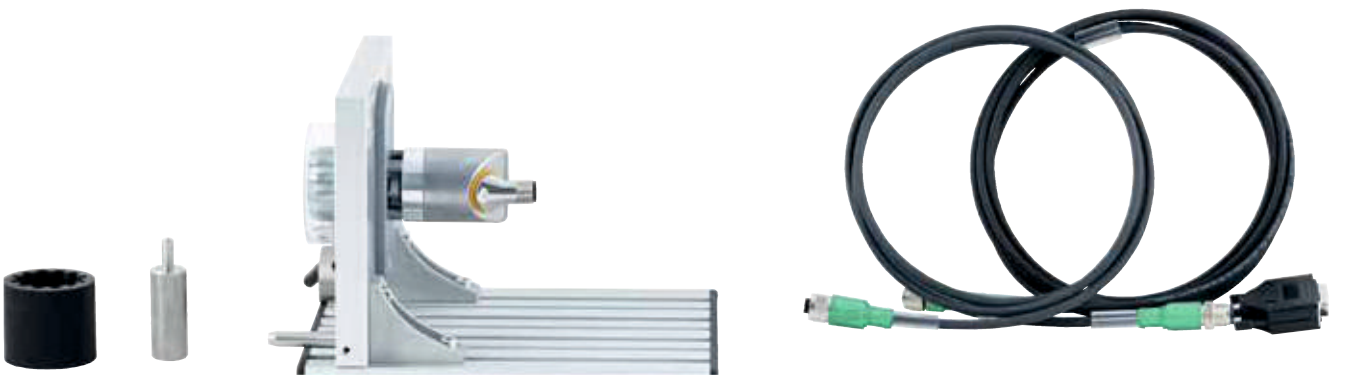
Learning objectives

- Extension of transfer systems with position detection
- Parameterization of various encoders
- Understanding how encoders work

No.	Designation	Order No.
1	IO-Link displacement encoder for transfer systems	80587

IO-LINK DISPLACEMENT ENCODER

for AC Motors



1

Technical data

- Position measuring system IO-Link for transfer systems (80587)
- Detachable coupling half for connecting with AC motors
- Coupling sleeve for connecting to AC motors
- Seat of the displacement encoder mounted on aluminum profile base plate

Learning objectives

- Extension of motors with position detection
- Parameterization of various encoders
- Understanding how encoders work

No.	Designation	Order No.
1	IO-Link displacement encoder for AC motors	80587-Z01


0.00 Hz
0 Hz
0.0 A
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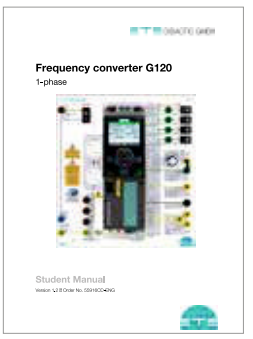
OK
INFO
SINAMICS

FREQUENCY CONVERTER G120 1-PHASE

Courseware

1

2



3

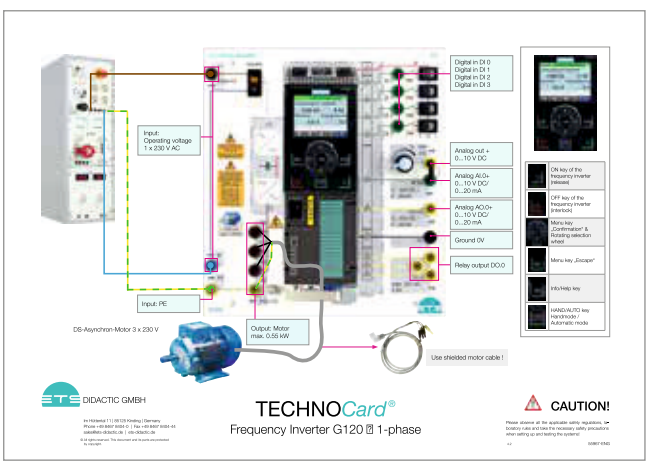
4

Printed and digital

Content

- Instructions for Using the Frequency Converter SINAMICS G120
- Description of the Frequency Converter SINAMICS G120
- Characteristics of SINAMICS G120
- Intelligent Operator Panel (IOP)
- Energy-saving fan operation
- Lift cage control
- Transfer system control
- Expansion of the transfer system control (PLC and GSD)
- Expansion of the transfer system control (technology object)
- Use of the control panel

TECHNOCards®



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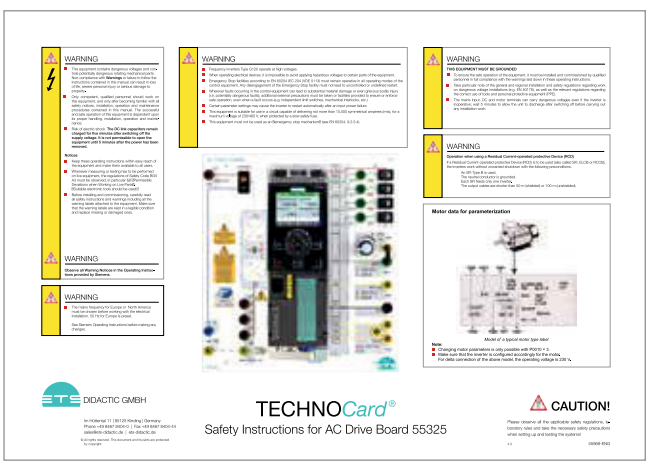
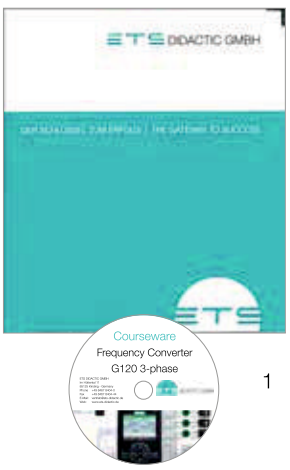


6

No.	Designation	Order No.
1	Set of ETS ring binders, incl. dividers	91903
2	Instructor's Manual, Frequency Converter G120 1-phase, incl. CD-ROM	55915CD-ENG
3	Manual Frequency Converter G120 1-phase, Practical Experiments, incl. CD-ROM	55916CD-ENG
4	Manual Frequency Converter G120 1-phase, Presentation Aids, incl. CD-ROM	55917CD-ENG
5	TECHNOCard® Frequency Converter G120 1-phase	55967-ENG
6	TECHNOCard® Safety Instructions AC Drive Board 55325	55968-ENG

FREQUENCY CONVERTER G120 3-PHASE

Courseware



1

2

3

4

Printed and digital

Content

- Instructions for Using the Frequency Converter SINAMICS G120
- Description of the Frequency Converter SINAMICS G120
- General features of SINAMICS G120
- Modularity
- Optional components
- Use of the control panel in the Software STARTER
- Energy-saving fan operation
- Lift cage control
- Transfer system control

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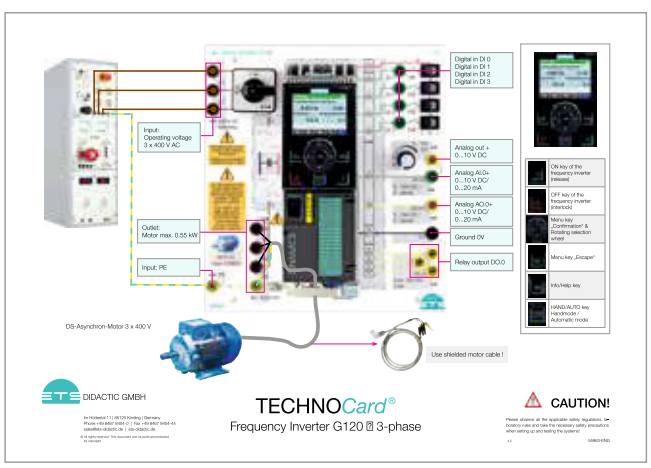

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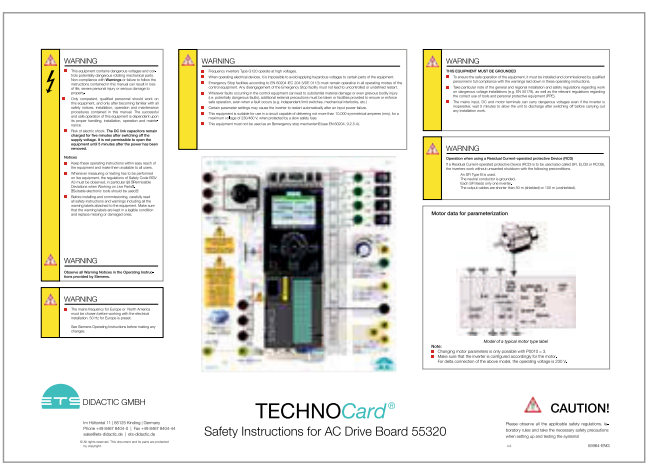

6

No.	Designation	Order No.
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2	Instructor's Manual, Frequency Converter G120 3-phase, incl. CD-ROM	55910CD-ENG
3	Manual Frequency Converter G120 3-phase, Practical Experiments, incl. CD-ROM	55911CD-ENG
4	Manual Frequency Converter G120 3-phase, Presentation Aids, incl. CD-ROM	55912CD-ENG
5	TECHNO*Card*® Frequency Converter G120 ⍰ 3-phase	55963-ENG
6	TECHNO*Card*® Safety Instructions AC Drive Board 55320	55964-ENG

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