SCE3-0610

AC Servo Controller

- Positioning, speed and torque control
- Digital 4-Q control
- Speed set-point analogue
  +/- 10 V DC / 0...10 V DC with direction signal
- Stepper motor simulation, clock + direction inputs
- Integrated ballast circuit
- Brake control
- Direct status- and diagnostics
- Digital inputs and outputs (24 V DC)
- RS232 for parameter adjustment
- Motor supply 230 V AC
- Separate logic supply 24 V DC, wrong polarity protected

Order options:

- Galvanic insulated fieldbus interface:
  RS232 / RS422 / RS485
  PROFIBUS-DP
  PROFINET-IO
  CANopen DSP402
  EtherCAT CoE
  Through switch adjustable bus address & baud rate

- Motor feedback:
  Resolver
  Hiperface
  EnDat 2.2

PROFINET®

PROFIBUS®

CANopen®

EtherCAT®

15/24-089.263.04

Digital AC Servo Controller SCE3-0610

The SCE3 is a servo controller for current, speed, and position control of AC servo motors with resolver technology, HIPERFACE® or EnDat2.2 encoder interface.
The power supply and a ballast circuit are already integrated.

Up to 31 positions (driving records) can be stored and retrieved via inputs.
Alternatively, an analogue +/- 10 V signal can specify the setpoint for speed or torque.
An optional fieldbus interface (PROFIBUS-DP, PROFINET-IO, CANopen DSP402, EtherCAT or RS232 / RS422 / RS485) allows direct access to all travel data and functions.
Incremental encoder outputs simulate an encoder with a configurable pulse number. Alternatively, an input for encoders or clock direction signals can be activated as a position setpoint.

The status and error notification is provided by a 7 segment display and by additional status outputs.
Due to the very compact design, the device requires little space within the control cabinet.

The PC software "ServoLink" comfortably enables all required settings.

Technical Data

General:	
Ambience temperature:	0...+40°C at rated power
Derating:	2%/K with temperatures >40°C...50°C
Humidity:	5 - 85%, non-condensing
Cooling:	Convective cooling
Dimensions:	3 RU / 12 HP (128 x 60,5 mm)
Output stage:	Galvanic insulation from control stage according to VDE 0160, Short-circuit and ground-fault proof for <2000 incidents
Supply voltage:	230 V AC
Rated current:	6 A
Peak current:	10 A
Ballast circuit:	Self-adjusting ballast threshold up to max. 400 V
Rated power:	100 W
Peak power:	2,4 kW 1 sec (82 Ohm)
Control stage:	Complete galvanic insulation to power stage, see above
Supply voltage:	24 V DC, unregulated (+20%, -10%)
Power consumption:	approx. 5 W

Order code:

SCE3-0610.xx1.0x0-xxx — Omitted in standard design

Rated/Peak current I_N = 6 A, I_P = 10 A

Interface
without Fieldbus = 0
PROFIBUS-DP = 3
CANopen = 4
RS232 / RS422 / RS485 = 5
EtherCAT = 6
PROFINET-IO = 7

Motorfeedback
Resolver = 4
Hiperface = 5
EnDat 2.2 = 6

Options
0 = none (standard)
1 = anti-condensation

I/O options
0 = 8 inputs / 5 outputs / 2 analogue Inputs

Address switch (fieldbus only)
0 = without (Standard)
1 = with address switch

Safety functions
0 = without (Standard)
1 = Safe Torque Off (EN ISO 13849-1)

Custom specific options

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