SC30

Servo Controller

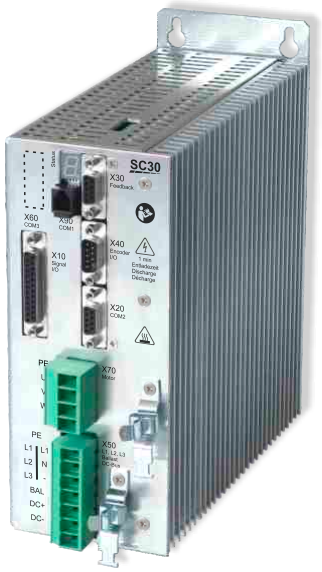
- Positioning, speed and torque control
- Digital 4-Q control
- Speed set-point analogue
  +/- 10V DC / 0 ... 10 V DC with direction signal
- Stepper motor simulation, clock + direction inputs
- Safe Torque Off Category 3 PL e (EN ISO 13849-1)
- Integrated ballast circuit
- Brake control
- Direct status- and diagnostics
- Digital inputs and outputs (24V)
- RS232 for parameter adjustment
- Separate logic supply 24V DC, wrong polarity protected

Direct Mains supply
230V / 400V

integrated
line filter !

Order options:

- Motor supply 230VAC / 400VAC
- 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®
EtherCAT®
CANopen®
Modbus

31/20-089.267.03

Digitale AC-Servo controller SC30...

The SC30 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 (motion 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 motion data and functions.
Incremental encoder outputs simulate an encoder with a configurable pulse number. Alternatively, an input for encoders or clock and direction signals can be activated as a position setpoint.

The status and error display is provided by a 7-segment display and additional status outputs.
Due to the very compact design, the device requires little space in 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° ... 50°C
Humidity:	5 - 85%, non-condensing
Cooling:	Convective cooling
Dimensions:	86 x 238 x 205mm (WxHxD)
Output stage:	Galvanic insulation from control stage according to VDE 0160, Short-circuit and ground-fault proof for < 2000 incidents
Supply voltage:	230V AC / 400V AC (see order code)
Rated current:	15A
Peak current:	30A
Ballast circuit:	self-adjusting ballast threshold Integrated ballast resistor Connection for external ballast resistor
Control stage:	Complete galvanic insulation to power stage, see above
Supply voltage:	24V DC, unregulated (+20%, -10%)
Power consumption:	ca. 8 W

Order code:

SC30-1530/vvv.xx0.0x1-xxx — Omitted in standard design

- **Rated/Peak current** I_R=15A, I_P=30A
- **Supply voltage**
  230V AC = 230
  400V AC = 400
- **Interface**
  Without Fieldbus = 0
  Profibus-DP = 3
  CANopen = 4
  RS232 / RS422 / RS485 = 5
  EtherCAT = 6
  Profinet = 7
  CANopen + Interaxle-CAN = A
- **Motorfeedback**
  Resolver = 4
  Hiperface = 5
  EnDat 2.2 = 6
- **Options**
  0 = None (Standard)
  1 = Condensation protection
- **I/O Options**
  0 = 8 Inputs / 5 Outputs / 2 Analogue inputs
- **Address switch** (Interface = 3/4/5/A only)
  0 = Without (Standard)
  1 = With address switch
- **Safety functions**
  1 = Safe Torque Off (EN ISO 13849-1)
- Custom specific options

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