

SC10

Servo Controller

- Positioning and speed-/torque regulator
- Digital 4-Q regulator
- Integrated ballast circuit with ballast resistor
- Output for parking brake
- Direct status- and diagnostics function through LED's
- Digital In- and Outputs (24V)
- RS232 for parameter setting
- Motor supply 230V AC or 24 80 V DC
- Logic supply 24V, wrong polarity protected

Order options:

- Set value analog

 +/- 10V DC / 0 ... 10 V DC with direction signal
 0/4 ... 20 mA
- Galvanically insulated fieldbus interface:
 - Profibus-DP Profinet-IO CANopen DSP402
 - EtherCAT CoE
 - RS485
 - Via switch adjustable bus address/baud rate
- Safe Torque Off Cat. 3 PL e (EN ISO 13849-1)
- Multiturn absolute encoder processing
- Input for external EnDat encoder for precise positioning



Low Cost



Ether**CAT**



Digital AC-Servo controller SC10

The SC10 is a servo controller for current, speed and positions control of AC servo motors with resolver technology. Optionally a HIPERFACE® interface can be integrated.

A ballast circuit with ballast resistor is already integrated. For higher ballast power an external ballast resistor can be connected.

Optional incremental outputs can simulate an encoder.

An analogue +/-10 V DC signal provides the set value for speed or torque. Alternatively up to 15 positions (driving data records) can be stored and called up over inputs.

An optional field bus interface (Profinet-IO, Profibus-DP, CANopen DSP402, EtherCAT or RS485) facilitate the direct access to all drive data and functions.

The data storage takes place in a maintenance-free EEPROM, without buffer battery.

3 LEDs and additional status exits provide status and error indication.

Through the very compact building method the equipment needs little place in the control cabinet.

0 ... +40°C at rated power

5 - 85%, non-condensing

22W internal, 100W total

65 x 196 x 118mm (WxHxD)

2%/K at temperatures >40° ... 50°C

Convection cooling and cooling though mounting plate

Short cirucuit and earthing proof for min. 2000 incidents.

Full electrical isolation from the power section, see above.

SC10/3.xxx

24-80V DC

40A max.

500W 1sec internal, 2,4kW 1sec total (82 Ohm)

60A max.

Automatic ballast threshold processing

24V DC, unregulated (+20%, -10%)

Galvanic insulation from controller section according to VDE 0160,

SC10/2.xxx

230V AC

5A max.

10A max.

The PC software "ServoLink" makes all necessary adjustments in a comfortably way possible.

SC10/1.xxx

24-60V DC

10A max.

10A max.

ca. 5 W

Technical Data

General: Ambient temperature: Derating: Humidity: Cooling: Dimensions:

Power section:

Continuos current: Peak current:

Ballast circuit:

Continuos ballast power: Peak ballast power:

Controller section:

Supply voltage: Power consumption: Inrush current:

Order code:

SC10/x.xxx.xxx.xxx

 $I_{max} = 6A$ for 0,8ms



All data in this folder have an informative character without warranty of characteristics. Changes without previous announcement reserved.

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