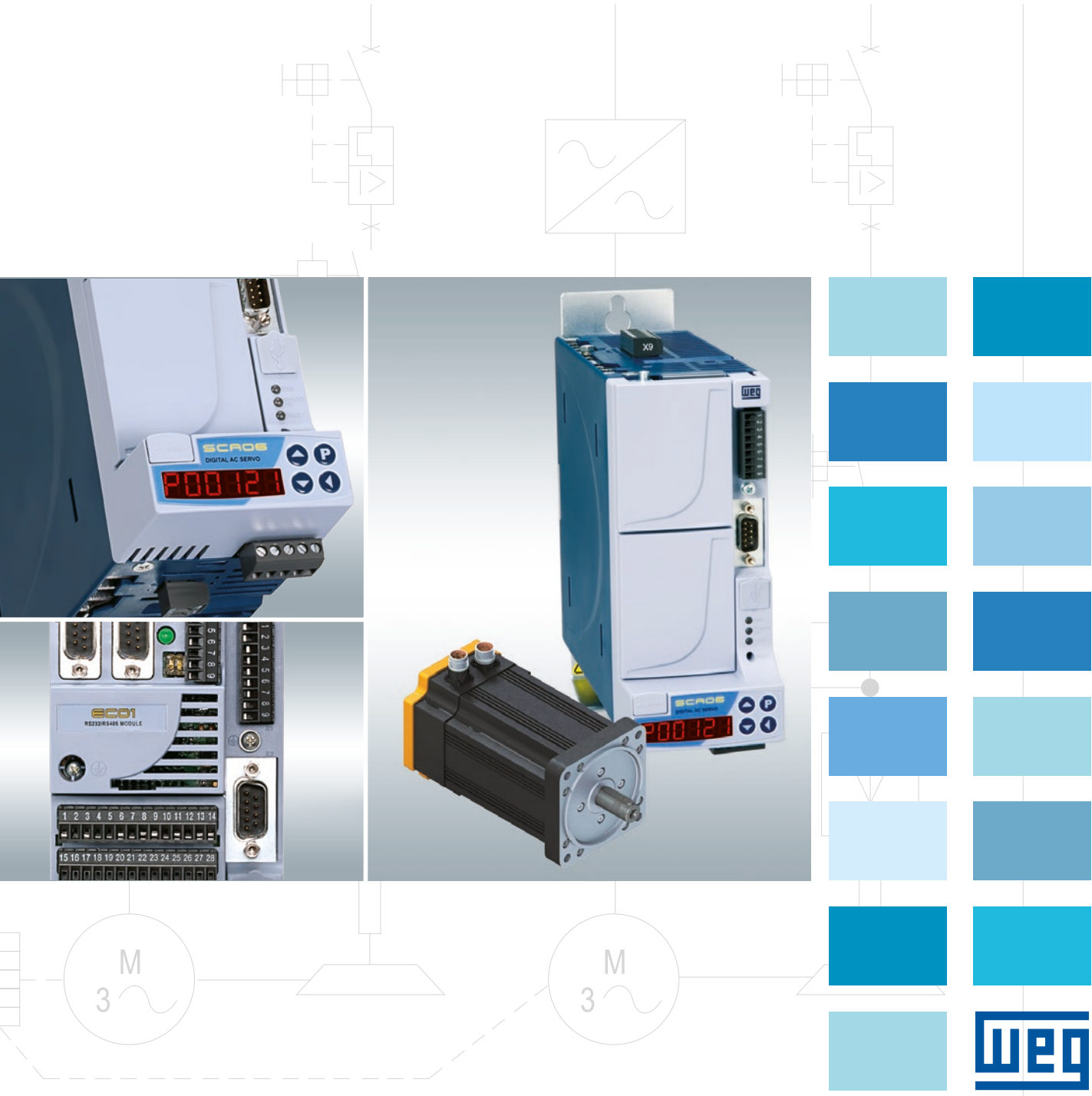


Automation

Servo Drive SCA06 Servo Motor SWA



Servo Drive SCA06

It is a high performance product that allows the speed, torque and position control of three-phase sine-wave alternate current servo motors. Through of Plug & Play concept has 3 slots for accessories, which allows easy and quickly installation. For your setup features an operating interface with LED display with six-digit control, adjustment and view of all parameters. Designed for exclusively industrial or professional use, with PLC function, positioning blocks, free programming software and CANopen communication built-in as standard product that can be used in all kinds of applications.

Characteristics

- Power supply 220-230 V ac / 380-480 V ac
- High performance
- Precision of motion control
- Operation in closed loop
- Position feedback **by resolver**
- Independent control and power supply
- Flexibility and integration to drive
- Easy operation
- HMI with six-digit LED display
- USB port
- CANopen standard
- Free WLP programming software
- RFI filter (optional)

Special Functions

- Programmable Logic Controller - PLC, built-in the standard product (ladder programming language - SoftPLC)
- Positioning blocks, built in the standard product
- Safety stop (optional), category 4
- TRACE function (digital oscilloscope) built in the standard product

Applications

- Packaging machine, dosage dispensers, packers, plastic welding and cutting machines
- Turntables, press feeders, winders
- Positioning systems and robots

Certifications



WEG Ladder Programmer / WLP

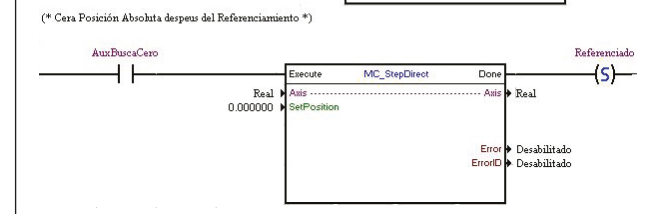
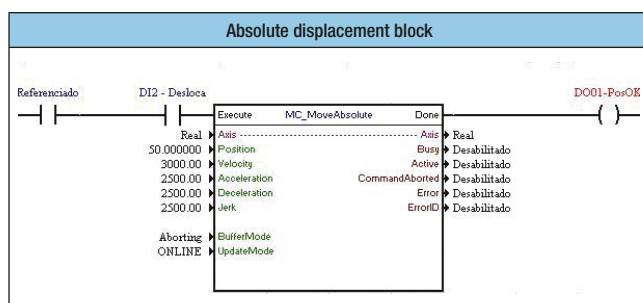
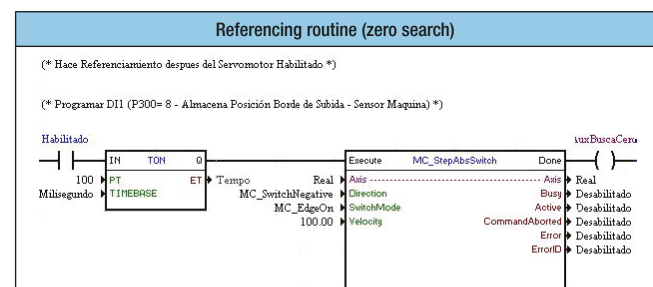
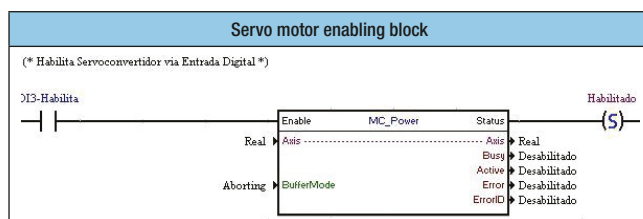
Technical Characteristics

- Windows Environment (32 bits)
- Capacity of the application program: 64 Kbytes
- Easy Ladder programming with built-in function blocks according to standard IEC 1131-3
- Graphical editing with texts (comments and tags)
- The variables of positioning, speed, acceleration, timing and counters can be configured according to the user's need
- It allows to create macros (user's blocks)
- Transfer and monitoring via USB
- Possibility of parameter and program backup via Memory Stick
- Real-time clock
- Online monitoring
- Online help

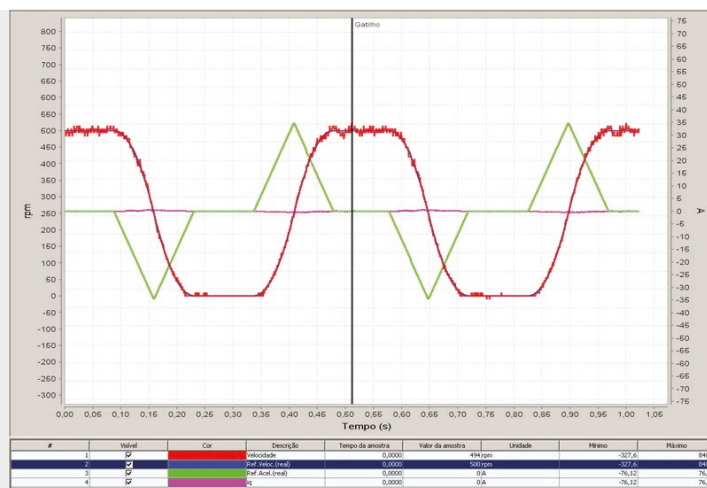
Main Controls

- Logic: contact normally open and closed, coil, negated coil, set and reset coil, positive and negative transition coil
- Positioning blocks: curves with trapezoidal profile, homing for zero, follower, stop, relative and absolute positioning
- PLC blocks: timer, incremental counter, comparator and arithmetic, PID and filter
- Synchronism blocks: in speed, in position and electronic CAM

Examples of WLP Controls



TRACE Function (Digital Oscilloscope)



Example of the TRACE function reading the speed reference variable, real speed, acceleration reference and real current (Iq)

Servo Drive Coding

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------|---|------|---|---|---|---|---|---|
| SCA06 | B | 05P0 | D | 2 | - | - | - | - |

1 - WEG servo drive

| |
|-------|
| SCA06 |
|-------|

2 - Size of the servo drive

| | |
|---|-------------|
| B | See page 10 |
| C | |
| D | |

3 - Rated output current

| | |
|------|--|
| 05P0 | 5 A (three-phase power supply) or 4 A (single-phase power supply) |
| 05P3 | 5.3 A (three-phase power supply) |
| 08P0 | 8 A (three-phase power supply) |
| 14P0 | 14 A (three-phase power supply) |
| 16P0 | 16 A (three-phase power supply) |
| 24P0 | 24 A (three-phase power supply) |

4 - Number of phases

| | |
|---|--|
| D | Three-phase power supply and/or single-phase with derating |
| T | Three-phase power supply |

5 - Rated voltage

| | |
|---|--------------|
| 2 | 220-230 V ac |
| 4 | 380-480 V ac |

6 - Internal RFI filter

| | |
|----|-------------------------------------|
| | (Blank) without internal RFI filter |
| C3 | With internal RFI filter |

7 - Safety stop module

| | |
|----|------------------------------------|
| | (Blank) without safety stop module |
| Y1 | Safety stop module included |

8 - Internal power supply of the electronics (24 V dc)

| | |
|----|---------------------------------------|
| | (Blank) without internal power supply |
| W2 | With internal power supply |

9 - Set of user's manuals

| | |
|----|--------------------|
| | (Blank) no manuals |
| P6 | With manuals |

Specification

| Code | Reference | Supply voltage (V ac) | Rated current (Arms) | Current overload | RFI filter | Internal 24 V dc supply | Safety stop module | User's manual | Size | | | | |
|--------------|----------------------|-----------------------------|-------------------------------------|------------------|-------------|-------------------------|--------------------|---------------|------|----|----|-----|---|
| 220-230 V ac | | | | | | | | | | | | | |
| 11220331 | SCA06B05P0D2 | Single-phase or three-phase | 4 (single-phase) 5 (three-phase) | 8 | No | No | No | No | B | | | | |
| 11223958 | SCA06B05P0D2P6 | | | | No | No | No | Yes | | | | | |
| - | SCA06B05P0D2Y1 | | | | No | No | Yes | No | | | | | |
| - | SCA06B05P0D2Y1P6 | | | | No | No | Yes | Yes | | | | | |
| 11854472 | SCA06B05P0D2W2 | | | | No | Yes | No | No | | | | | |
| 11854471 | SCA06B05P0D2W2P6 | | | | No | Yes | No | Yes | | | | | |
| - | SCA06B05P0D2Y1W2 | | | | No | Yes | Yes | No | | | | | |
| - | SCA06B05P0D2Y1W2P6 | | | | No | Yes | Yes | Yes | | | | | |
| 11400157 | SCA06B05P0D2C3 | | | | Yes | No | No | No | | | | | |
| 11400268 | SCA06B05P0D2C3P6 | | | | Yes | No | No | Yes | | | | | |
| - | SCA06B05P0D2C3Y1 | | | | Yes | No | Yes | No | | | | | |
| - | SCA06B05P0D2C3Y1P6 | | | | Yes | No | Yes | Yes | | | | | |
| 11854455 | SCA06B05P0D2C3W2 | | | | Yes | Yes | No | No | | | | | |
| 11849860 | SCA06B05P0D2C3W2P6 | | | | Yes | Yes | No | Yes | | | | | |
| - | SCA06B05P0D2C3Y1W2 | | | | Yes | Yes | Yes | No | | | | | |
| - | SCA06B05P0D2C3Y1W2P6 | | | | Yes | Yes | Yes | Yes | | | | | |
| 11400269 | SCA06C08P0T2 | | | | Three-phase | 8 | 16 | No | | No | No | No | C |
| 11400270 | SCA06C08P0T2P6 | | | | | | | No | | No | No | Yes | |
| - | SCA06C08P0T2Y1 | No | No | Yes | | | | No | | | | | |
| - | SCA06C08P0T2Y1P6 | No | No | Yes | | | | Yes | | | | | |
| 11854799 | SCA06C08P0T2W2 | No | Yes | No | | | | No | | | | | |
| 11854801 | SCA06C08P0T2W2P6 | No | Yes | No | | | | Yes | | | | | |
| - | SCA06C08P0T2Y1W2 | No | Yes | Yes | | | | No | | | | | |
| - | SCA06C08P0T2Y1W2P6 | No | Yes | Yes | | | | Yes | | | | | |
| 11400272 | SCA06C08P0T2C3 | Yes | No | No | | | | No | | | | | |
| 11400273 | SCA06C08P0T2C3P6 | Yes | No | No | | | | Yes | | | | | |
| - | SCA06C08P0T2C3Y1 | Yes | No | Yes | | | | No | | | | | |
| - | SCA06C08P0T2C3Y1P6 | Yes | No | Yes | | | | Yes | | | | | |
| 11854802 | SCA06C08P0T2C3W2 | Yes | Yes | No | | | | No | | | | | |
| 11854803 | SCA06C08P0T2C3W2P6 | Yes | Yes | No | | | | Yes | | | | | |
| - | SCA06C08P0T2C3Y1W2 | Yes | Yes | Yes | | | | No | | | | | |
| - | SCA06C08P0T2C3Y1W2P6 | Yes | Yes | Yes | | | | Yes | | | | | |

Specification

| Code | Reference | Supply voltage (V ac) | Rated current (Arms) | Current overload | RFI filter | Internal 24 V dc supply | Safety stop module | User's manual | Size | |
|---------------------|----------------------|-----------------------|----------------------|------------------|------------|-------------------------|--------------------|---------------|------|---|
| 220-230 V ac | | | | | | | | | | |
| 11854804 | SCA06D16POT2 | Three-phase | 16 | 32 | No | No | No | No | D | |
| 11854806 | SCA06D16POT2P6 | | | | No | No | No | Yes | | |
| - | SCA06D16POT2Y1 | | | | No | No | Yes | No | | |
| - | SCA06D16POT2Y1P6 | | | | No | No | Yes | Yes | | |
| 11854851 | SCA06D16POT2W2 | | | | No | Yes | No | No | | |
| 11854853 | SCA06D16POT2W2P6 | | | | No | Yes | No | Yes | | |
| - | SCA06D16POT2Y1W2 | | | | No | Yes | Yes | No | | |
| - | SCA06D16POT2Y1W2P6 | | | | No | Yes | Yes | Yes | | |
| 11854848 | SCA06D16POT2C3 | | | | Yes | No | No | No | | |
| 11854850 | SCA06D16POT2C3P6 | | | | Yes | No | No | Yes | | |
| - | SCA06D16POT2C3Y1 | | | | Yes | No | Yes | No | | |
| - | SCA06D16POT2C3Y1P6 | | | | Yes | No | Yes | Yes | | |
| 11854854 | SCA06D16POT2C3W2 | | | | Yes | Yes | No | No | | |
| 11854855 | SCA06D16POT2C3W2P6 | | | | Yes | Yes | No | Yes | | |
| - | SCA06D16POT2C3Y1W2 | | Yes | Yes | Yes | No | | | | |
| - | SCA06D16POT2C3Y1W2P6 | | Yes | Yes | Yes | Yes | | | | |
| 11542251 | SCA06D24POT2 | | 24 | 48 | No | No | No | No | | |
| 11542252 | SCA06D24POT2P6 | | | | No | No | No | Yes | | |
| - | SCA06D24POT2Y1 | | | | No | No | Yes | No | | |
| - | SCA06D24POT2Y1P6 | | | | No | No | Yes | Yes | | |
| 11854857 | SCA06D24POT2W2 | | | | No | Yes | No | No | | |
| 11854868 | SCA06D24POT2W2P6 | | | | No | Yes | No | Yes | | |
| - | SCA06D24POT2Y1W2 | | | | No | Yes | Yes | No | | |
| - | SCA06D24POT2Y1W2P6 | | | | No | Yes | Yes | Yes | | |
| 11542253 | SCA06D24POT2C3 | | | | Yes | No | No | No | | |
| 11542254 | SCA06D24POT2C3P6 | | | | Yes | No | No | Yes | | |
| - | SCA06D24POT2C3Y1 | | | | Yes | No | Yes | No | | |
| - | SCA06D24POT2C3Y1P6 | | | | Yes | No | Yes | Yes | | |
| 11854871 | SCA06D24POT2C3W2 | Yes | | | Yes | No | No | | | |
| 11854872 | SCA06D24POT2C3W2P6 | Yes | | | Yes | No | Yes | | | |
| - | SCA06D24POT2C3Y1W2 | Yes | Yes | Yes | No | | | | | |
| - | SCA06D24POT2C3Y1W2P6 | Yes | Yes | Yes | Yes | | | | | |
| 380-480 V | | | | | | | | | | |
| 11577335 | SCA06C05P3T4 | Three-phase | 5.3 | 8 | No | No | No | No | C | |
| 11577356 | SCA06C05P3T4P6 | | | | No | No | No | Yes | | |
| - | SCA06C05P3T4Y1 | | | | No | No | Yes | No | | |
| - | SCA06C05P3T4Y1P6 | | | | No | No | Yes | Yes | | |
| 11944502 | SCA06C05P3T4W2 | | | | No | Yes | No | No | | |
| 11943488 | SCA06C05P3T4W2P6 | | | | No | Yes | No | Yes | | |
| - | SCA06C05P3T4Y1W2 | | | | No | Yes | Yes | No | | |
| - | SCA06C05P3T4Y1W2P6 | | | | No | Yes | Yes | Yes | | |
| 11577359 | SCA06C05P3T4C3 | | | | Yes | No | No | No | | |
| 11577361 | SCA06C05P3T4C3P6 | | | | Yes | No | No | Yes | | |
| - | SCA06C05P3T4C3Y1 | | | | Yes | No | Yes | No | | |
| - | SCA06C05P3T4C3Y1P6 | | | | Yes | No | Yes | Yes | | |
| 11944503 | SCA06C05P3T4C3W2 | | | | Yes | Yes | No | No | | |
| 11944504 | SCA06C05P3T4C3W2P6 | | | | Yes | Yes | No | Yes | | |
| - | SCA06C05P3T4C3Y1W2 | | Yes | Yes | Yes | No | | | | |
| - | SCA06C05P3T4C3Y1W2P6 | | Yes | Yes | Yes | Yes | | | | |
| 11577363 | SCA06D14POT4 | | 14 | 28 | No | No | No | No | | D |
| 11577365 | SCA06D14POT4P6 | | | | No | No | No | Yes | | |
| - | SCA06D14POT4Y1 | | | | No | No | Yes | No | | |
| - | SCA06D14POT4Y1P6 | | | | No | No | Yes | Yes | | |
| 11944540 | SCA06D14POT4W2 | | | | No | Yes | No | No | | |
| 11943463 | SCA06D14POT4W2P6 | | | | No | Yes | No | Yes | | |
| - | SCA06D14POT4Y1W2 | | | | No | Yes | Yes | No | | |
| - | SCA06D14POT4Y1W2P6 | | | | No | Yes | Yes | Yes | | |
| 11577378 | SCA06D14POT4C3 | | | | Yes | No | No | No | | |
| 11577380 | SCA06D14POT4C3P6 | | | | Yes | No | No | Yes | | |
| - | SCA06D14POT4C3Y1 | | | | Yes | No | Yes | No | | |
| - | SCA06D14POT4C3Y1P6 | | | | Yes | No | Yes | Yes | | |
| 11944541 | SCA06D14POT4C3W2 | Yes | | | Yes | No | No | | | |
| 11944542 | SCA06D14POT4C3W2P6 | Yes | | | Yes | No | Yes | | | |
| - | SCA06D14POT4C3Y1W2 | Yes | Yes | Yes | No | | | | | |
| - | SCA06D14POT4C3Y1W2P6 | Yes | Yes | Yes | Yes | | | | | |

Optional

RFI Filter

To include the RFI filter, the value “C3” must be added in the position 6 of the code (page 4). It is used to reduce the disturbance conducted from the servo drive to the main power supply in the high frequency band (>150 kHz). It meets the electromagnetic compatibility Standards EN 61800-3 and EN 55011.

Safety Stop Module

To include the safety stop module, the value “Y1” must be added in the position 7 of the code (page 4). The Safety Integrity Level will be SIL3 and it meets category 4, protection level e (PLe), according to EN ISO 13849-1.

Internal Power Supply of the Electronics

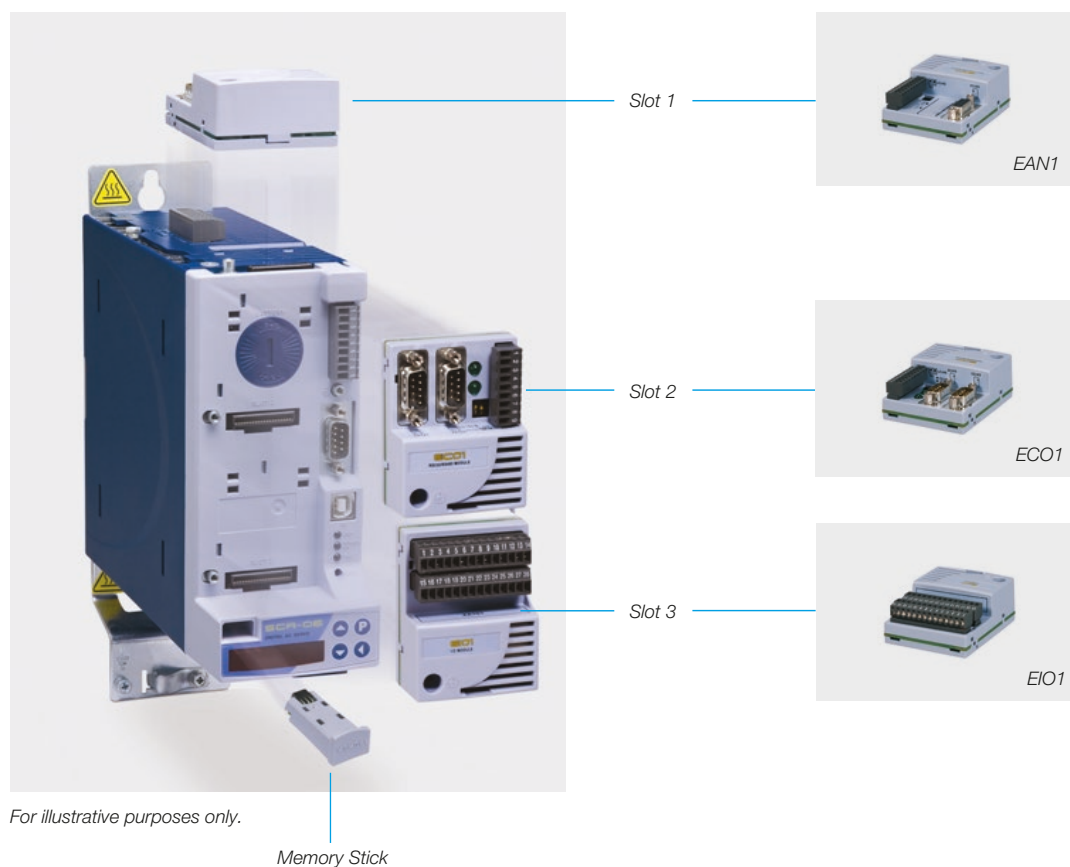
To include the internal 24 V dc power supply of the electronics, the value “W2” must be added in the position 8 of the encoding (page 4).

Accessories

Modules

They can be ordered and installed directly on the SCA06.

| Code | Reference | Description |
|--|-------------------|--|
| Digital / Analog inputs and outputs / Encoder simulator | | |
| 11330218 | EIO1 | Digital expansion module: 12 inputs (24 V dc - PNP/NPN) + 6 outputs (3 relays + 3 transistors) |
| 11330354 | EAN1 | Analog expansion module: 1 analog input (-10/+10 V dc - 14 bits) + 1 encoder simulator output (5...30 V dc) + 3 digital inputs (24 V dc - PNP/NPN) + 1 transistor output |
| Encoder auxiliary inputs | | |
| 11842413 | EEN1 | Encoder expansion module: 1 encoder input with 3 differential channels (5...24 V dc) |
| 11849417 | EEN2 | Encoder expansion module: 2 encoder inputs with 3 differential channels each + repeater (5...24 V dc) |
| Communication networks | | |
| 11330271 | ECO1 - Modbus-RTU | Communication expansion module: 1 RS232 port + 1 RS485 port |
| 11842414 | ECO3 - Profibus | Communication expansion module: 1 Profibus-DPV1 port |
| - | ECO4 - Ethercat | Communication expansion Module: 1 Ethercat port |




For illustrative purposes only.

Memory Stick

Accessories

Resolver Cables


| Description | Diameter | Length | Speciality | Figure |
|-------------|--|------------|----------------------|---|
| SFC-1.5 m-M | 9 mm (8 ways - 3 x (2 mm ² x 0.14 mm ²) + 2 x (0.5 mm ²)) | 1.5 meters | Shielded handling |  |
| SFC-03 m-M | | 3 meters | | |
| SFC-06 m-M | | 6 meters | | |
| SFC-09 m-M | | 9 meters | | |
| SFC-12 m-M | | 12 meters | | |
| SFC-15 m-M | | 15 meters | | |

Power Cables

| Description | Diameter | Length | Speciality | Figure |
|----------------------|--|------------|----------------------|--|
| SPC-1.5 m-4x0.75-S-M | 7 mm (4 ways x 0.75 mm ²) | 1.5 meters | Shielded handling |  |
| SPC-03 m-4x0.75-S-M | | 3 meters | | |
| SPC-06 m-4x0.75-S-M | | 6 meters | | |
| SPC-09 m-4x0.75-S-M | | 9 meters | | |
| SPC-12 m-4x0.75-S-M | | 12 meters | | |
| SPC-15 m-4x0.75-S-M | | 15 meters | | |
| SPC-03 m-4x1.5-S-M | 10 mm (4 ways x 1.5 mm ²) | 3 meters | | |
| SPC-06 m-4x1.5-S-M | | 6 meters | | |
| SPC-09 m-4x1.5-S-M | | 9 meters | | |
| SPC-12 m-4x1.5-S-M | | 12 meters | | |
| SPC-15 m-4x1.5-S-M | | 15 meters | | |
| SPC-03 m-4x4.0-S-M | 13.1 mm (4 ways x 4.0 mm ²) | 3 meters | | |
| SPC-06 m-4x4.0-S-M | | 6 meters | | |
| SPC-09 m-4x4.0-S-M | | 9 meters | | |
| SPC-12 m-4x4.0-S-M | | 12 meters | | |
| SPC-15 m-4x4.0-S-M | | 15 meters | | |


Note: the brake, resolver and power cables are supplied with mounted connectors.

Brake Cables

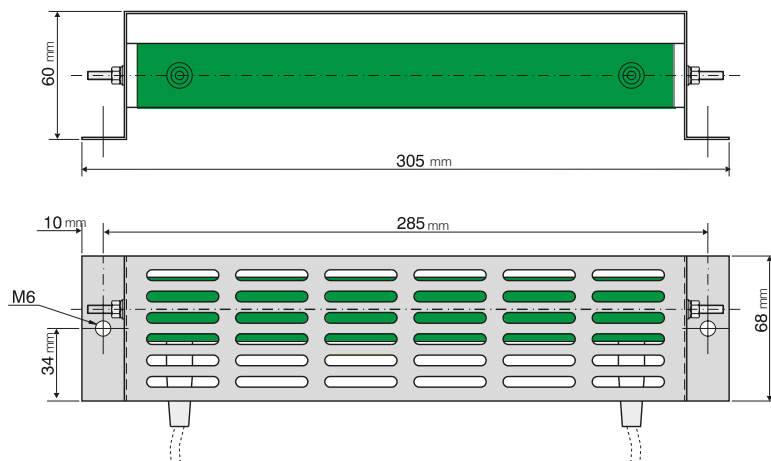
| Description | Diameter | Length | Speciality | Figure |
|-------------|---|--------|------------|---|
| SBC-1.5 m-M | 10 mm (2 ways x 0.75 mm ²) | 1.5 | |  |
| SBC-03 m-M | | 3 | | |
| SBC-06 m-M | | 6 | | |
| SBC-09 m-M | | 9 | | |
| SBC-12 m-M | | 12 | | |
| SBC-15 m-M | | 15 | | |

Accessories

Encoder Simulator Cable

| Description | Technical specifications | | | | Figure |
|-------------------------|--|----------|-----------|--|---|
| | Diameter | Length | Connector | Speciality | |
| Encoder simulator cable | 8.3 mm (8 ways - 6 x 0.2 mm ² . 2 x 0.5 mm ²) | 2 meters | DB9 | Shielded (maximum curvature (radius): static = 33 mm) |  |

Braking Resistor RF-200



| Technical specifications | Descriptions |
|-----------------------------|--------------|
| Maximum braking power (rms) | 200 W |
| Resistance | 30 Ω |

| Code | Description |
|----------|-----------------------|
| 11015202 | Braking module RF-200 |

Network Settings

CANopen

Standard servo drive SCA06



Master
CANopen
Network



PLC300 Programmable
Logic Controller



Expansion Unit of
Digital I/O

Modbus-RTU

Servo drive SCA06 + Module
ECO1 (RS232/RS485)

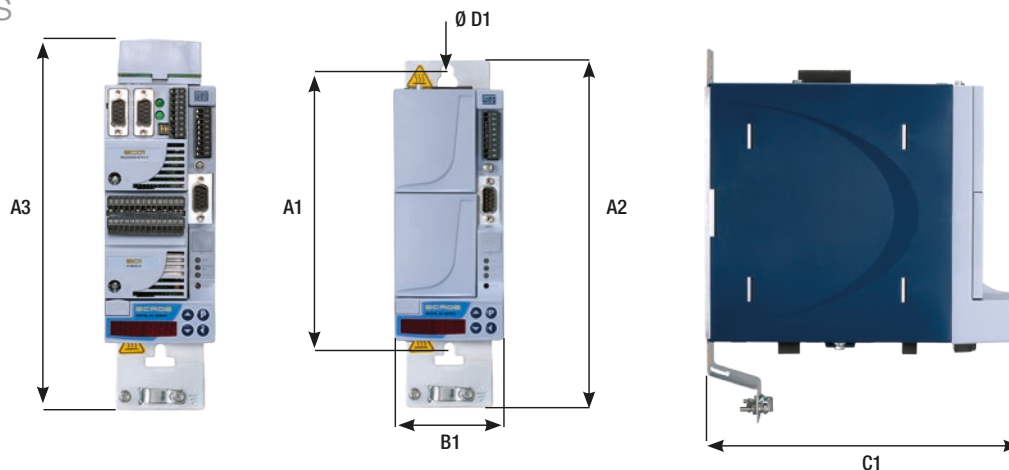


Modbus-RTU
Network



Graphical HMI PWS 6400
3.3" Touch Screen Display

Dimensions



| Model | A1 | A2 | A3 | B1 | C1 | D1 | Torque ¹⁾ | Weight |
|--------|----------------|----------------|----------------|---------------|-----------------|----|----------------------|--------------|
| | mm (in) | mm (in) | mm (in) | mm (in) | mm (in) | M | N.m (lb.in) | Kg (lb) |
| Size B | 200 (7.87) | 247 (9.72) | 253 (9.96) | 75 (2.95) | 206.7 (8.14) | M5 | 5 (44.2) | 1.6 (3.4) |
| | 242 (9.53) | 289 (11.38) | 296 (11.65) | 75 (2.95) | 206.7 (8.14) | M5 | 5 (44.2) | 1.9 (4.2) |
| Size D | 288 (11.34) | 335 (13.19) | 342 (13.46) | 102 (4.02) | 206.7 (8.14) | M5 | 5 (44.2) | 3.9 (8.6) |

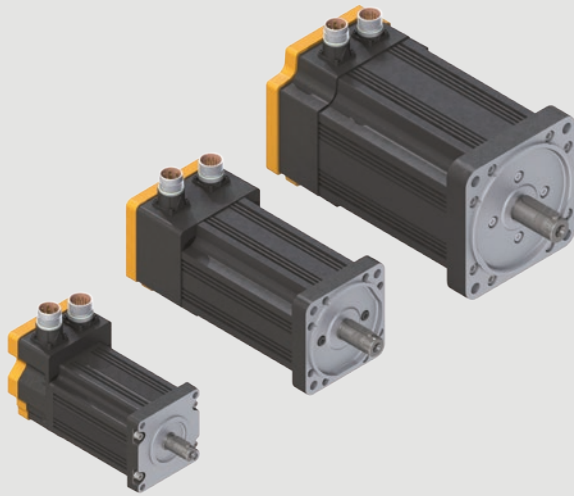
Notes: 1) Recommended torque for fixing the servo drive (valid for D1).
Tolerance of quotas: ±1 mm (±0.039 in).

Technical Data

| Servo drive SCA06 | |
|---|--|
| Main power supply | Tolerance: -15 % to +10 % |
| | Frequency: 50/60 Hz (48 Hz to 62 Hz) |
| | Maximum of 60 connections per hour (one every minute) |
| | Typical efficiency greater than or equal to 96% |
| | Typical input power factor: 0.94 for models with three-phase input in the rated condition or 0.70 for models with single-phase input in the rated condition |
| | Phase imbalance smaller than or equal to 3% of the input voltage of the rated phase to phase |
| | Overvoltages in accordance with Category III (EN 61010/UL 508C) |
| | Transient voltages in accordance with Category III |
| Power supply voltage | Single-phase 220-230 V ac / 4 A |
| | Three-phase 220-230 V ac / 5-8-16-24 A or 380-480 V ac / 5,3-14 A |
| Control | Method Vector control feedback PWM 10 kHz Regulators of current, flow and speed in software |
| | Output frequency 0-400 Hz |
| | Digital inputs 2 insulated digital inputs, programmable functions, high level ≥18 V, low level ≤3 V, maximum voltage 30 V dc, input current 3.7 mA @ 24 V dc, maximum frequency 500 kHz; 1 insulated digital input, programmable functions, high level ≥18 V, low level ≤3 V, maximum voltage 30 V dc, input current 11 mA @ 24 V dc, maximum delay time: leading edge 10 μs; falling edge 50 μs |
| | Digital outputs 1 relay output, NO contact, programmable functions, maximum voltage 240 V ac (200 V dc), maximum current 0.5 A |
| | Analog inputs 1 differential input, signal -10 V dc to +10 V dc, resolution of 12 bits, maximum voltage (-14 V dc, +14 V dc), impedance 400 kΩ, programmable functions |
| | Power supply External power supply: 24 V dc (-15%, +20%) |
| | Networks CANopen (master) |
| | Expansions 3 slots for expansion of digital and analog inputs/outputs, communication networks, encoder inputs and encoder simulator output |
| Environment | Operating temperature Environment (around the SCA06) 0 °C to 50 °C (it is possible to operate with ambient temperatures around the SCA06 of nearly 60 °C if a 2%-reduction of the output current is applied for each °C above 50 °C) |
| | Relative humidity 5% to 90% without condensation |
| | Protection degree IP20 |
| | Altitude Altitude: 1,000 m For applications above 1,000 m up to 4,000 m, the output rated current must be reduced in 1% for each 100 m above 1,000 m |
| Software | SuperDrive G2 and WLP (free download at the site www.weg.net), SoftPLC function (included in the standard product) |
| Computer connection (desktop or notebook) | USB port built in the standard product, version 2.0 (basic speed), plug type B device |
| | Shielded USB Interconnection cable (standard host / device shielded USB cable) |
| Standards | Electromagnetic Compatibility (EMC): EN 61800 (part 3), EN 61000 (parts 4-2, 4-3, 4-4, 4-5, 4-6), CISPR11, EN 55011 |
| | Electrical, mechanical and safety construction: EN 60204-1 ¹⁾ , EN 61800-5-1, UL 508C, UL 840, EN 50178, EN 60146 (IEC 146), EN 61800-2 (part 2), EN 60529, UL 50 |
| HMI - Human Machine Interface | 4 keys (parameter, increment, decrement and shift), LED displays with 6 digits, It allows access/change of all parameters |

Note: 1) To have a machine in accordance with this standard, the manufacturer of the machine is responsible for the installation of an emergency stop device and a device for disconnecting from the power grid.

Servo Motors SWA



Technical Specifications

- Protection degree IP65 ¹⁾
- Class F insulation
- Feedback by resolver
- Mounting B5 (without feet, fixed by the flange), V1 (without feet, fixed by the flange down) and V3 (without feet, fixed by the flange up)
- Thermal protector (PTC)
- Shaft end with key NBR 6375
- Shaft material: STEEL SAE 1045
- Rare-earth magnets (Neodymium-Iron-Boron)
- Bearings with permanent lubrication
- Retainer for shaft seal
- Maximum operating temperature in permanent duty: $\Delta T = 100\text{ }^{\circ}\text{C}$

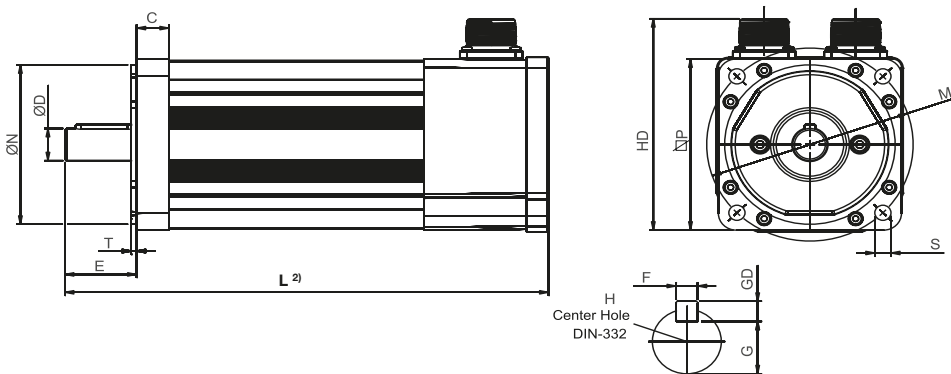
Technical Features

- Sine-wave counter-electromotive force
- Smooth and uniform rotation at all speeds
- Low noise and vibration
- Wide speed range with constant torque
- Low maintenance (brushless servo motors)
- High overload capacity
- Low inertia
- Quick dynamic response

Optional

- Electromagnetic brake
- Flange for ROD-type incremental encoder
- Other electrical/mechanical special features, on request

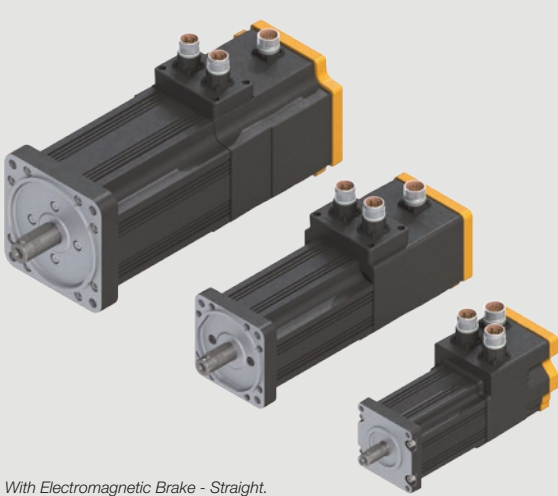
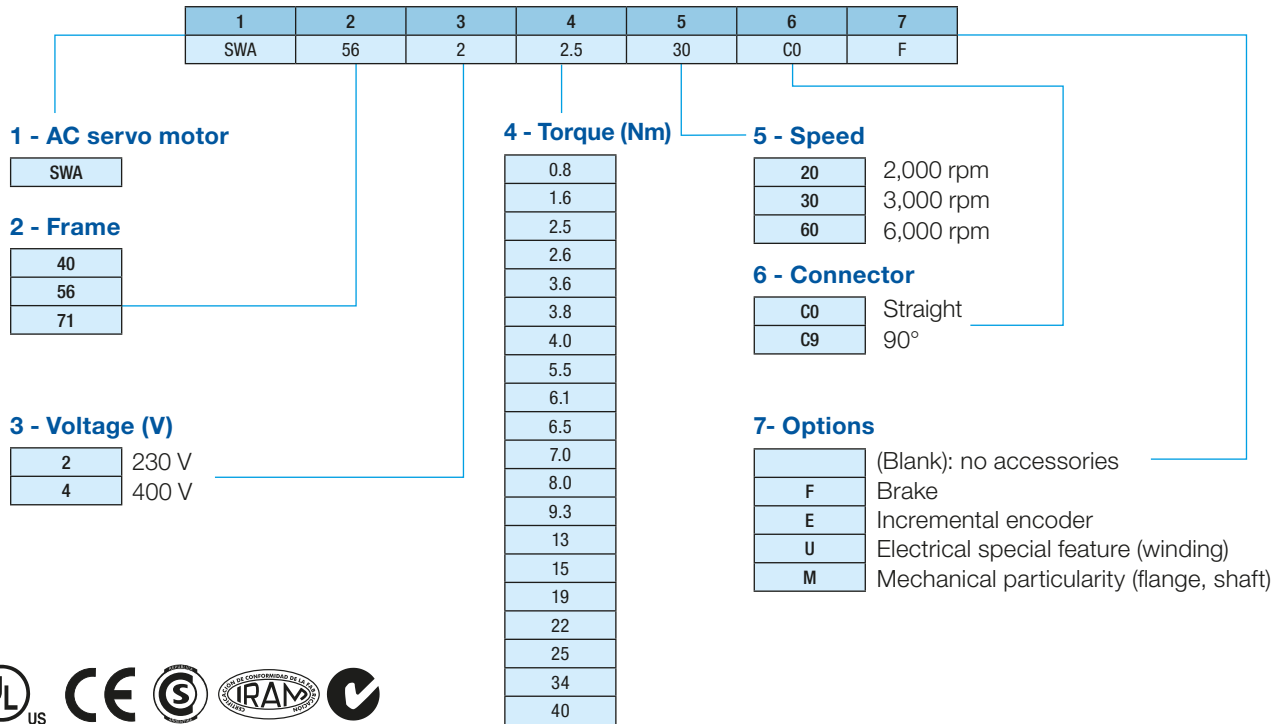
Standard Servo Motors



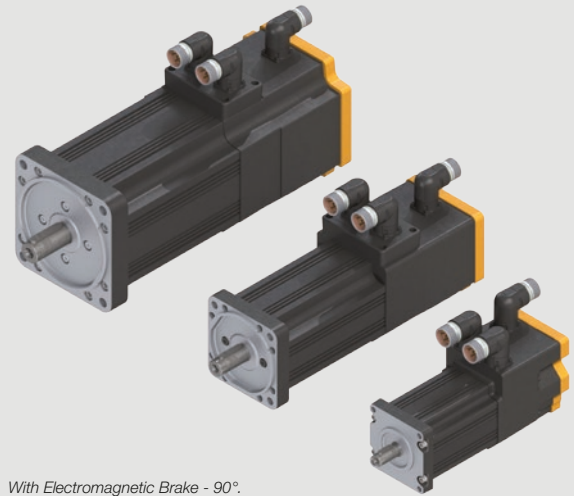
| Frame | HD (mm) | ∅P (mm) | Flange | | | | | Shaft end (mm) | | | | | |
|-------|---------|---------|--------|-------|-----|----|-----|--------------------|------------------|--------------------|------------------|-----------------|------------|
| | | | ∅M | ∅N | ∅S | C | T | ∅D | E | F | G | GD | H |
| 40 | 110 | 80 | 95 | 50j6 | 6.5 | 14 | 2 | 14j6 | 29.5 | 5n9 | 11 | 5 | M5x1x12 |
| 56 | 127 | 102 | 115 | 95j6 | 9 | 18 | 3 | 19j6 | 40 | 6n9 | 15.5 | 6 | M6x1x16 |
| 71 | 166 | 142 | 165 | 130j6 | 11 | 25 | 3.5 | 24j6 | 50 | 8n9 | 20 | 7 | M8x1.25x19 |
| | | | | | | | | 32j6 ³⁾ | 57 ³⁾ | 10n9 ³⁾ | 27 ³⁾ | 8 ³⁾ | M8x1.25x19 |

Notes: 1) Servo motor with brake features protection degree.
 2) Length "L" on pages 13 and 14, Table of Technical Specifications. IP54.
 3) Valid for servo motors SWA-74-40-20 and SWA-74-34-30.

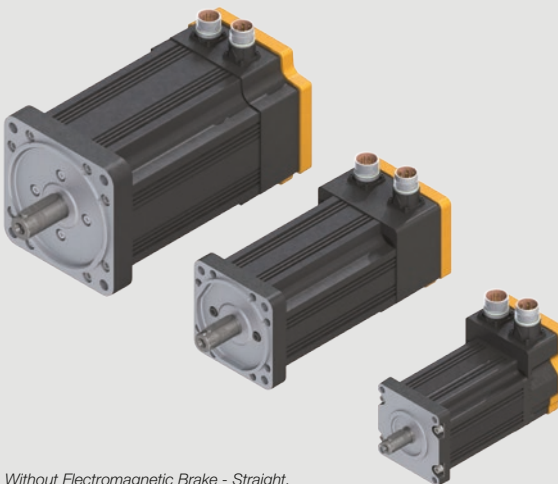
Servo Motor Coding



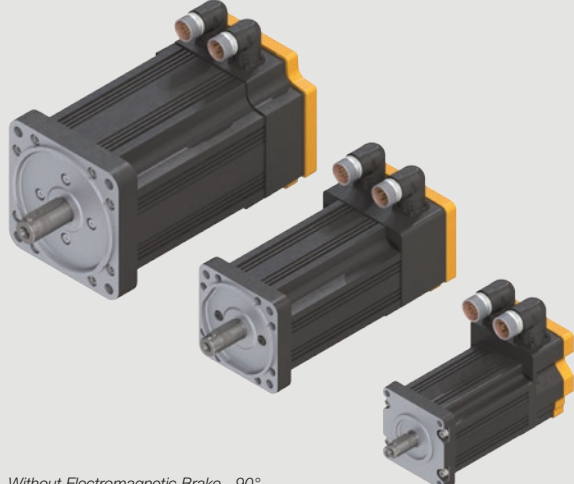
With Electromagnetic Brake - Straight.



With Electromagnetic Brake - 90°.



Without Electromagnetic Brake - Straight.



Without Electromagnetic Brake - 90°.

Standard Servo Motors SWA

Without Electromagnetic Brake - 220-230 V

| Speed | Model of the servo motor | Rotor torque bloq. mo (N.m) | Current I _o (A) (RMS) | Rated power (kW) | Mass (kg) | Inertia x 10 ⁻³ (kg.m ²) | K _e (rms) (V/krpm) | Length "L" (mm) | Recommended servo drive | | | | Cables between SWA and SCA-06 | | | | | |
|-----------|--------------------------|-----------------------------|----------------------------------|------------------|-----------|---|-------------------------------|-----------------|-------------------------|------------|------------|------------|-------------------------------|---------------------------|------------|--------------------|------------|---------------------|
| | | | | | | | | | SCA06B05P05 | SCA06C08P0 | SCA06D16P0 | SCA06D24P0 | Power cable | Resolver cable (feedback) | | | | |
| 2,000 rpm | SWA 562-2.5-20-XX | 2.5 | 2.5 | 0.36 | 4.6 | 0.22 | 75 | 250 | D2 | | | | | SPC-...m-4x0.75-S-M | SFC-...m-M | | | |
| | SWA 562-3.8-20-XX | 3.8 | 3.8 | 0.70 | 5.6 | 0.31 | 73 | 270 | D2 | | | | | | | | | |
| | SWA 562-6.1-20-XX | 6.1 | 5.2 | 1.10 | 7.5 | 0.50 | 73 | 310 | | T2 | | | | | | | | |
| | SWA 562-8.0-20-XX | 8.0 | 6.5 | 1.32 | 9.3 | 0.68 | 80 | 350 | | T2 | | | | | | | | |
| | SWA 712-9.3-20-XX | 9.3 | 8.0 | 1.60 | 12.0 | 1.63 | 77 | 270 | | T2 | | | | | | | | |
| | SWA 712-13-20-XX | 13.0 | 11.8 | 2.30 | 15.0 | 2.35 | 74 | 300 | | | T2 | | | | | | | |
| | SWA 712-15-20-XX | 15.0 | 13.0 | 2.50 | 17.0 | 3.06 | 77 | 330 | | | T2 | | | | | | | |
| | SWA 712-19-20-XX | 19.0 | 15.1 | 2.90 | 20.0 | 3.78 | 83 | 360 | | | | T2 | | | | | | |
| 3,000 rpm | SWA 712-22-20-XX | 22.0 | 18.5 | 3.40 | 22.0 | 4.50 | 83 | 390 | | | | T2 | | | | SPC-...m-4x4.0-S-M | SFC-...m-M | |
| | SWA 712-25-20-XX | 25.0 | 21.5 | 3.40 | 27.0 | 5.94 | 79 | 450 | | | | T2 | | | | | | |
| | SWA 402-0.8-30-XX | 0.8 | 1.0 | 0.20 | 2.0 | 0.044 | 56 | 190 | D2 | | | | | | | | | SPC-...m-4x0.75-S-M |
| | SWA 402-1.6-30-XX | 1.6 | 2.0 | 0.45 | 2.8 | 0.084 | 57 | 216 | D2 | | | | | | | | | |
| | SWA 402-2.6-30-XX | 2.6 | 3.2 | 0.70 | 3.5 | 0.12 | 57 | 236 | D2 | | | | | | | | | SPC-...m-4x1.5-S-M |
| | SWA 562-2.5-30-XX | 2.5 | 3.8 | 0.66 | 4.6 | 0.22 | 47 | 250 | D2 | | | | | | | | | |
| | SWA 562-4.0-30-XX | 4.0 | 5.7 | 0.88 | 5.6 | 0.31 | 49 | 270 | | T2 | | | | | | | | |
| | SWA 562-6.1-30-XX | 6.1 | 8.5 | 1.30 | 7.5 | 0.50 | 48 | 310 | | T2 | | | | | | | | |
| 6,000 rpm | SWA 562-7.0-30-XX | 7.0 | 9.0 | 1.50 | 9.3 | 0.68 | 50 | 350 | | | T2 | | | SPC-...m-4x4.0-S-M | | | | |
| | SWA 712-9.3-30-XX | 9.3 | 12.0 | 2.05 | 12.0 | 1.63 | 60 | 270 | | | T2 | | | | | | | |
| | SWA 712-13-30-XX | 13.0 | 18.0 | 2.85 | 15.0 | 2.35 | 55 | 300 | | | | T2 | | SPC-...m-4x4.0-S-M | | | | |
| | SWA 712-15-30-XX | 15.0 | 20.0 | 3.30 | 17.0 | 3.06 | 52 | 330 | | | | T2 | | | | | | |
| | SWA 712-19-30-XX | 19.0 | 23.0 | 4.20 | 20.0 | 3.78 | 55 | 360 | | | | T2 | | SPC-...m-4x4.0-S-M | | | | |
| | SWA 402-1.6-60-XX | 1.6 | 4.0 | 0.70 | 2.8 | 0.084 | 28 | 216 | D2 | | | | | | | | | |
| | SWA 402-2.6-60-XX | 2.6 | 6.2 | 1.13 | 3.5 | 0.12 | 28 | 236 | | T2 | | | | SPC-...m-4x1.5-S-M | | | | |
| | SWA 562-2.5-60-XX | 2.5 | 7.5 | 1.13 | 4.6 | 0.22 | 25 | 250 | | T2 | | | | | | | | |
| 6,000 rpm | SWA 562-3.6-60-XX | 3.6 | 10.3 | 1.60 | 5.6 | 0.31 | 27 | 270 | | | T2 | | | SPC-...m-4x4.0-S-M | | | | |
| | SWA 562-5.5-60-XX | 5.5 | 15.5 | 2.40 | 7.5 | 0.50 | 28 | 310 | | | | T2 | | | | | | |
| | SWA 562-6.5-60-XX | 6.5 | 16.3 | 2.50 | 9.3 | 0.68 | 27 | 350 | | | | T2 | | | | | | |

With Electromagnetic Brake - 220-230 V

| Speed | Model of the servo motor | Rotor torque bloq. mo (N.m) | Current I _o (A) (RMS) | Rated power (kW) | Mass (kg) | Inertia x 10 ⁻³ (kg.m ²) | K _e (rms) (V/krpm) | Length "L" (mm) | Recommended servo drive | | | | Cables between SWA and SCA-06 | | | | |
|--------------------|--------------------------|-----------------------------|----------------------------------|------------------|-----------|---|-------------------------------|-----------------|-------------------------|------------|------------|------------|-------------------------------|---------------------------|-------------|------------|---------------------|
| | | | | | | | | | SCA06B05P05 | SCA06C08P0 | SCA06D16P0 | SCA06D24P0 | Power cable | Resolver cable (feedback) | Brake cable | | |
| 2,000 rpm | SWA 562-2.5-20-XXF | 2.5 | 2.5 | 0.36 | 6.5 | 0.35 | 75 | 323 | D2 | | | | | SPC-...m-4x0.75-S-M | SFC-...m-M | SBC-...m-M | |
| | SWA 562-3.8-20-XXF | 3.8 | 3.8 | 0.70 | 7.5 | 0.44 | 73 | 343 | D2 | | | | | | | | |
| | SWA 562-6.1-20-XXF | 6.1 | 5.2 | 1.10 | 9.4 | 0.63 | 73 | 383 | | T2 | | | | | | | |
| | SWA 562-8.0-20-XXF | 8.0 | 6.5 | 1.32 | 11.2 | 0.81 | 80 | 423 | | T2 | | | | | | | |
| | SWA 712-9.3-20-XXF | 9.3 | 8.0 | 1.60 | 16.1 | 2.10 | 77 | 367 | | | T2 | | | | | | |
| | SWA 712-13-20-XXF | 13.0 | 11.8 | 2.30 | 19.1 | 2.84 | 74 | 397 | | | | T2 | | | | | |
| | SWA 712-15-20-XXF | 15.0 | 13.0 | 2.50 | 21.1 | 3.55 | 77 | 427 | | | T2 | | | | | | |
| | SWA 712-19-20-XXF | 19.0 | 15.1 | 2.90 | 24.1 | 4.27 | 83 | 457 | | | | T2 | | | | | |
| 3,000 rpm | SWA 712-22-20-XXF | 22.0 | 18.5 | 3.40 | 26.1 | 4.99 | 83 | 487 | | | | T2 | | SPC-...m-4x4.0-S-M | | | |
| | SWA 712-25-20-XXF | 25.0 | 21.5 | 3.40 | 31.1 | 6.43 | 79 | 547 | | | | T2 | | | | | |
| | SWA 402-0.8-30-XXF | 0.8 | 1.0 | 0.20 | 2.9 | 0.164 | 56 | 242 | D2 | | | | | | | | SPC-...m-4x0.75-S-M |
| | SWA 402-1.6-30-XXF | 1.6 | 2.0 | 0.45 | 3.7 | 0.204 | 57 | 269 | D2 | | | | | | | | |
| | SWA 402-2.6-30-XXF | 2.6 | 3.2 | 0.70 | 4.4 | 0.24 | 57 | 289 | D2 | | | | | | | | SPC-...m-4x1.5-S-M |
| | SWA 562-2.5-30-XXF | 2.5 | 3.8 | 0.66 | 6.5 | 0.35 | 47 | 323 | D2 | | | | | | | | |
| | SWA 562-4.0-30-XXF | 4.0 | 5.7 | 0.88 | 7.5 | 0.44 | 49 | 343 | | T2 | | | | | | | |
| | SWA 562-6.1-30-XXF | 6.1 | 8.5 | 1.30 | 9.4 | 0.63 | 48 | 383 | | T2 | | | | | | | |
| 6,000 rpm | SWA 562-7.0-30-XXF | 7.0 | 9.0 | 1.50 | 11.2 | 0.81 | 50 | 423 | | | T2 | | | SPC-...m-4x4.0-S-M | | | |
| | SWA 712-9.3-30-XXF | 9.3 | 12.0 | 2.05 | 16.1 | 2.10 | 60 | 367 | | | | T2 | | | | | |
| | SWA 712-13-30-XXF | 13.0 | 18.0 | 2.85 | 19.1 | 2.84 | 55 | 397 | | | | T2 | | | | | |
| | SWA 712-15-30-XXF | 15.0 | 20.0 | 3.30 | 21.1 | 3.55 | 52 | 427 | | | | T2 | | | | | |
| | SWA 712-19-30-XXF | 19.0 | 23.0 | 4.20 | 24.1 | 4.27 | 55 | 457 | | | | T2 | | | | | |
| | SWA 402-1.6-60-XXF | 1.6 | 4.0 | 0.70 | 3.7 | 0.204 | 28 | 269 | D2 | | | | | SPC-...m-4x0.75-S-M | | | |
| | SWA 402-2.6-60-XXF | 2.6 | 6.2 | 1.13 | 4.4 | 0.24 | 28 | 289 | | T2 | | | | | | | |
| | SWA 562-2.5-60-XXF | 2.5 | 7.5 | 1.13 | 6.5 | 0.35 | 25 | 323 | | T2 | | | | SPC-...m-4x1.5-S-M | | | |
| SWA 562-3.6-60-XXF | 3.6 | 10.3 | 1.60 | 7.5 | 0.44 | 27 | 343 | | | T2 | | | | | | | |
| 6,000 rpm | SWA 562-5.5-60-XXF | 5.5 | 15.5 | 2.40 | 9.4 | 0.63 | 28 | 383 | | | | T2 | | SPC-...m-4x4.0-S-M | | | |
| | SWA 562-6.5-60-XXF | 6.5 | 16.3 | 2.50 | 11.2 | 0.81 | 27 | 423 | | | | T2 | | | | | |

Notes: XX = Describe the kind of connector requested:

- For C0 - Straight connector.
- For C9 - 90° connector.

To release the brake, it is necessary to feed it with an external source of 24 V dc with the following capacity: 0.48 A (11.5 W) for servo motors of frame 40, 0.84 A (20 W) for servo motors of frame 56 and 1.05 A (25 W) for servo motors of frame 71. To supply brakes, check cables on page 7.

The electromagnetic brake must be driven with a stopped servo motor (parked). It features the following rated torques: 2 N.m for the servo motors of frame 40, 6 N.m for the servo motors of frame 56 and 12 N.m for the servo motors of frame 71.

D2 - Power supply: single/three-phase 220/230 V ac.
T2 - Power supply: three-phase 220/230 V ac.

Standard Servo Motors SWA

Without Electromagnetic Brake - 380-480 V

| Speed | Model of the servo motor | Rotor torque bloq. mo (N.m) | Current Io (A) (RMS) | Rated power (kW) | Mass (kg) | Inertia x 10 ⁻³ (kg.m ²) | Ke (rms) (V/krpm) | Length "L" (mm) | Recommended servo drive | | | Cables between SWA and SCA-06 | | |
|------------------|--------------------------|-----------------------------|----------------------|------------------|-----------|---|-------------------|-----------------|-------------------------|------------|-------------------------|-------------------------------|---------------------------|--------------------|
| | | | | | | | | | SCA06C05P3 | SCA06D14P0 | SCA050030 ¹⁾ | Power cable | Resolver cable (feedback) | |
| 2,000 rpm | SWA 564-6.1-20-XX | 6.1 | 3.0 | 1.10 | 9.4 | 0.50 | 138 | 383 | T4 | | | SPC-...m-4x1.5-S-M | SFC-...m-M | |
| | SWA 564-8.0-20-XX | 8.0 | 4.0 | 1.32 | 11.2 | 0.68 | 139 | 423 | T4 | | | | | |
| | SWA 714-9.3-20-XX | 9.3 | 4.7 | 1.60 | 16.1 | 1.63 | 142 | 367 | T4 | | | | | |
| | SWA 714-13-20-XX | 13.0 | 6.6 | 2.30 | 19.1 | 2.35 | 143 | 397 | | T4 | | | | SPC-...m-4x4.0-S-M |
| | SWA 714-15-20-XX | 15.0 | 7.6 | 2.50 | 21.1 | 3.07 | 141 | 427 | | T4 | | | | |
| | SWA 714-19-20-XX | 19.0 | 9.2 | 2.90 | 24.1 | 3.79 | 142 | 457 | | T4 | | | | |
| | SWA 714-22-20-XX | 22.0 | 11.9 | 3.40 | 26.1 | 4.50 | 136 | 487 | | T4 | | | | |
| SWA 714-25-20-XX | 25.0 | 12.5 | 3.40 | 31.1 | 5.94 | 142 | 547 | | T4 | | | | | |
| SWA 714-40-20-XX | 40.0 | 19.0 | 5.00 | 32.0 | 7.40 | 140 | 510 | | | T4 | SPC-...-4x6.0-S-M | | | |
| 3,000 rpm | SWA 564-4.0-30-XX | 4.0 | 3.2 | 0.88 | 7.5 | 0.31 | 93 | 343 | T4 | | | SPC-...m-4x1.5-S-M | | |
| | SWA 564-6.1-30-XX | 6.1 | 5.0 | 1.30 | 9.4 | 0.50 | 94 | 383 | T4 | | | | | |
| | SWA 564-7.0-30-XX | 7.0 | 5.1 | 1.50 | 11.2 | 0.68 | 94 | 423 | T4 | | | | | |
| | SWA 714-9.3-30-XX | 9.3 | 6.8 | 2.05 | 16.1 | 1.63 | 94 | 367 | | T4 | | SPC-...m-4x4.0-S-M | | |
| | SWA 714-13-30-XX | 13.0 | 10.3 | 2.58 | 19.1 | 2.35 | 93 | 397 | | T4 | | | | |
| | SWA 714-15-30-XX | 15.0 | 11.3 | 3.30 | 21.1 | 3.07 | 95 | 427 | | T4 | | | | |
| | SWA 714-19-30-XX | 19.0 | 13.4 | 4.20 | 24.1 | 3.79 | 97 | 457 | | T4 | | | | |
| SWA 714-34-30-XX | 34.0 | 25.0 | 4.30 | 27.0 | 5.94 | 92 | 450 | | | T4 | SPC-...-4x6.0-S-M | | | |
| 6,000 rpm | SWA 404-2.6-60-XX | 2.6 | 3.8 | 1.13 | 4.4 | 0.12 | 46 | 289 | T4 | | | SPC-...m-4x1.5-S-M | | |
| | SWA 564-2.5-60-XX | 2.5 | 4.2 | 1.13 | 6.5 | 0.22 | 47 | 323 | T4 | | | | | |
| | SWA 564-3.6-60-XX | 3.6 | 5.7 | 1.60 | 7.5 | 0.31 | 47 | 343 | | T4 | | SPC-...m-4x4.0-S-M | | |
| | SWA 564-5.5-60-XX | 5.5 | 8.8 | 2.40 | 9.4 | 0.50 | 47 | 383 | | T4 | | | | |
| | SWA 564-6.5-60-XX | 6.5 | 9.6 | 2.50 | 11.2 | 0.68 | 48 | 423 | | T4 | | | | |

With Electromagnetic Brake - 380-480 V

| Speed | Model of the servo motor | Rotor torque bloq. mo (N.m) | Current Io (A) (RMS) | Rated power (kW) | Mass (kg) | Inertia x 10 ⁻³ (kg.m ²) | Ke (rms) (V/krpm) | Length "L" (mm) | Recommended servo drive | | | Cables between SWA and SCA-06 | | | |
|-------------------|--------------------------|-----------------------------|----------------------|------------------|-----------|---|-------------------|-----------------|-------------------------|------------|------------|-------------------------------|---------------------------|-------------|--------------------|
| | | | | | | | | | SCA06C05P3 | SCA06D14P0 | SCA050030* | Power cable | Resolver cable (feedback) | Brake cable | |
| 2,000 rpm | SWA 564-6.1-20-XXF | 6.1 | 3.0 | 1.10 | 9.4 | 0.63 | 138 | 383 | T4 | | | SPC-...m-4x1.5-S-M | SFC-...m-M | SBC-...m-M | |
| | SWA 564-8.0-20-XXF | 8.0 | 4.0 | 1.32 | 11.2 | 0.81 | 139 | 423 | T4 | | | | | | |
| | SWA 714-9.3-20-XXF | 9.3 | 4.7 | 1.60 | 16.1 | 2.10 | 142 | 367 | T4 | | | | | | |
| | SWA 714-13-20-XXF | 13.0 | 6.6 | 2.30 | 19.1 | 2.84 | 143 | 397 | | T4 | | | | | SPC-...m-4x4.0-S-M |
| | SWA 714-15-20-XXF | 15.0 | 7.6 | 2.50 | 21.1 | 3.55 | 141 | 427 | | T4 | | | | | |
| | SWA 714-19-20-XXF | 19.0 | 9.2 | 2.90 | 24.1 | 4.27 | 142 | 457 | | T4 | | | | | |
| | SWA 714-22-20-XXF | 22.0 | 11.9 | 3.40 | 26.1 | 4.99 | 136 | 487 | | T4 | | | | | |
| SWA 714-25-20-XXF | 25.0 | 12.5 | 3.40 | 31.1 | 6.43 | 142 | 547 | | T4 | | | | | | |
| 3,000 rpm | SWA 564-4.0-30-XXF | 4.0 | 3.2 | 0.88 | 7.5 | 0.44 | 93 | 343 | T4 | | | SPC-...m-4x1.5-S-M | | | |
| | SWA 564-6.1-30-XXF | 6.1 | 5.0 | 1.30 | 9.4 | 0.63 | 94 | 383 | T4 | | | | | | |
| | SWA 564-7.0-30-XXF | 7.0 | 5.1 | 1.50 | 11.2 | 0.81 | 94 | 423 | T4 | | | | | | |
| | SWA 714-9.3-30-XXF | 9.3 | 6.8 | 2.05 | 16.1 | 2.10 | 94 | 367 | | T4 | | SPC-...m-4x4.0-S-M | | | |
| | SWA 714-13-30-XXF | 13.0 | 10.3 | 2.58 | 19.1 | 2.84 | 93 | 397 | | T4 | | | | | |
| | SWA 714-15-30-XXF | 15.0 | 11.3 | 3.30 | 21.1 | 3.55 | 95 | 427 | | T4 | | | | | |
| | SWA 714-19-30-XXF | 19.0 | 13.4 | 4.20 | 24.1 | 4.27 | 97 | 457 | | T4 | | | | | |
| 6,000 rpm | SWA 404-2.6-60-XXF | 2.6 | 3.8 | 1.13 | 4.4 | 0.24 | 46 | 289 | T4 | | | SPC-...m-4x1.5-S-M | | | |
| | SWA 564-2.5-60-XXF | 2.5 | 4.2 | 1.13 | 6.5 | 0.35 | 47 | 323 | T4 | | | | | | |
| | SWA 564-3.6-60-XXF | 3.6 | 5.7 | 1.60 | 7.5 | 0.44 | 47 | 343 | | T4 | | SPC-...m-4x4.0-S-M | | | |
| | SWA 564-5.5-60-XXF | 5.5 | 8.8 | 2.40 | 9.4 | 0.63 | 47 | 383 | | T4 | | | | | |
| | SWA 564-6.5-60-XXF | 6.5 | 9.6 | 2.50 | 11.2 | 0.81 | 48 | 423 | | T4 | | | | | |

Notes: 1) Launching in 2014.

XX = Describe the kind of connector requested:

- For C0 - Straight connector.
- For C9 - 90° connector.

To release the brake, it is necessary to feed it with an external source of 24 V dc with the following capacity: 0.48 A (11.5 W) for servo motors of frame 40, 0.84 A (20 W) for servo motors of frame 56 and 1.05 A (25 W) for servo motors of frame 71. To supply brakes, check cables on page 7.

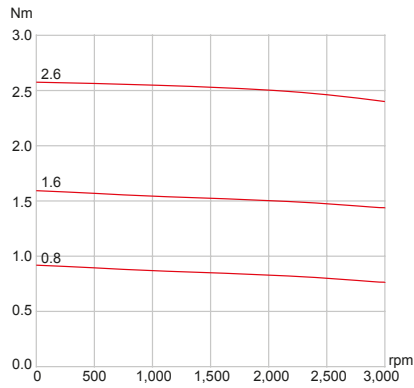
The electromagnetic brake must be driven with a stopped servo motor (parked). It features the following rated torques: 2 N.m for the servo motors of frame 40, 6 N.m for the servo motors of frame 56 and 12 N.m for the servo motors of frame 71.

T4 - Power supply: three-phase 380/480 V ac.

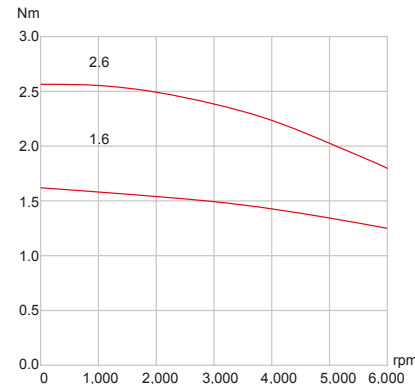
Characteristic Curves of the Servo Motors SWA

SWA 40

Servo Motors SWA 40-...-30

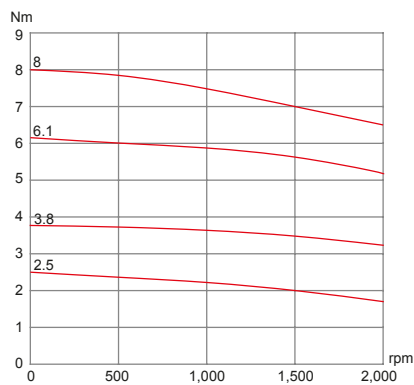


Servo Motors SWA 40-...-60

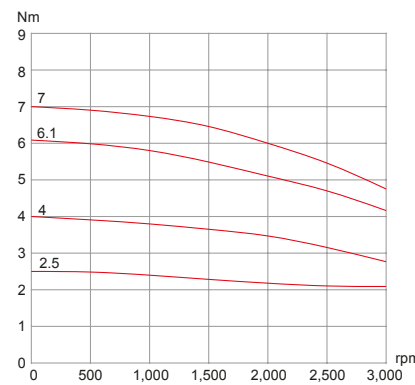


SWA 56

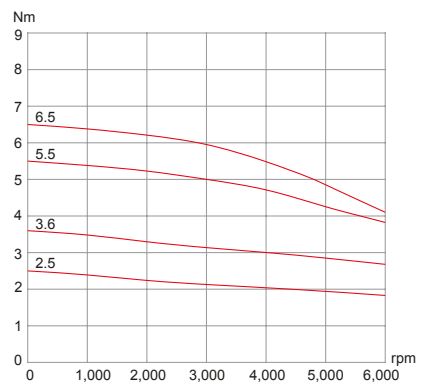
Servo Motors SWA 56-...-20



Servo Motors SWA 56-...-30

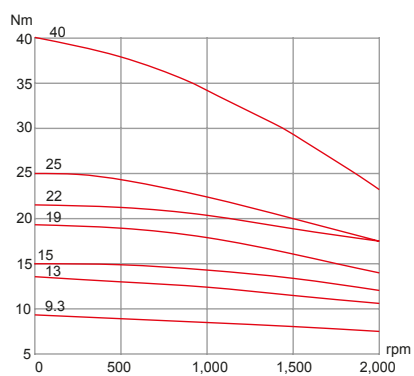


Servo Motors SWA 56-...-60

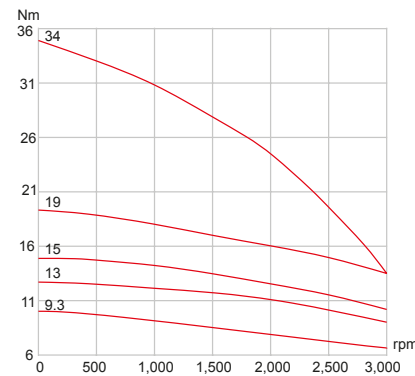


SWA 71

Servo Motors SWA 71-...-20



Servo Motors SWA 71-...-30



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