English

isel® EC-Servo motor 86 (brushless) 440W — Item-No. **474440 0310**
isel® EC-Servo motor 86 (brushless) 660W — Item-No. **474660 0310**
isel® EC-Servo motor 86 (brushless) 880W — Item-No. **474880 0310**

Characteristics

- electronically commutated 3-phase servo motor
- brushless drive
- high power output in a compact design
- incremental measuring system
- Hall sensors
- Applications: positioning, speed controll
- connection via circular
- encoder: 1000 Inc/rotation, RS 422, power: +5VCD

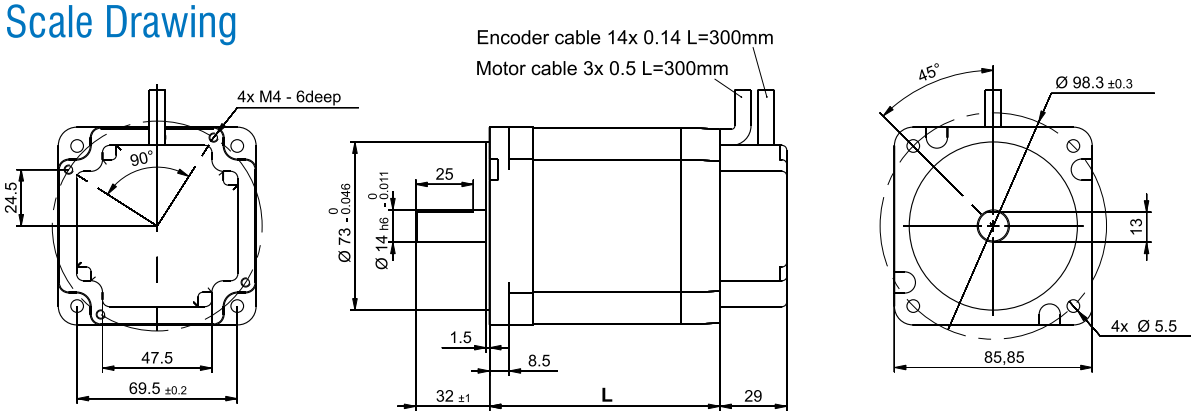

EC-Servomotor EC 86

Technical Data

Item-No.	Nominal power [W]	Nominal voltage [V DC]	Power [A]	Numbers of poles	Nominal speed [rev/min.]	Torque at rated [Nm]	Maximal torque [Nm]	Inductance phase to phase [mH]	Resistance phase to phase [Ohm]	Length L [mm]	Weight [kg]
474440 0310	440	310	3.4	8	3,000	1.4	5.0	8	2.8	100	2.6
474660 0310	660	310	3.6	8	3,000	2.1	7.4	5	1.7	125	4.0
474880 0310	880	310	3.8	8	3,000	2.8	8.4	9.6	4.2	150	5.2

The encoder has 1000 pulses per revolution, RS422, digital, traces A, / A, B, / B, Z, / Z as well as Hall 1, Hall 2, Hall3 - 5V Output - GND reference, on the receiver side PULL-UP. Supply voltage 5V encoder and Hall

Scale Drawing



Connections

Encoder cable

Pin	Signal	Colour
1	Shield	Shield
2	Gnd	black
3	Vcc + 5V	red
4	Encoder B	grey
5	Encoder /B	grey / black
6	Encoder A	brown
7	Encoder /A	brown / black
8	Encoder Z	orange
9	Encoder /Z	orange / black
10	Hall A	yellow
11	Hall B	white
12	Hall C	green

Encoder cable plug connector:
12-pole female connector strip, type JST PHR-12

Motor cable

Signal	Colour
Motor U	yellow
Motor V	blue
Motor W	green
PE	green / yellow

Technical specifications subject to change.

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