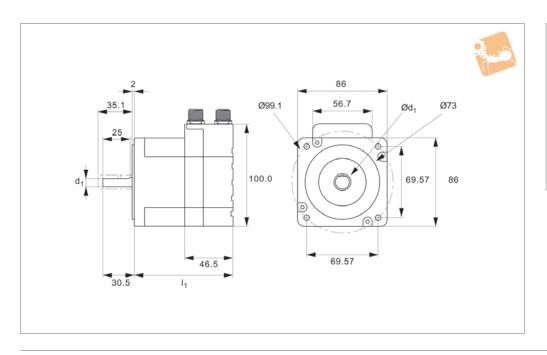


### **Intelligent NEMA 34 Stepper Motors** with mactalk software







L3536

#### **Material**

Combined 2 phase, high torque stepper motors with in-built power driver and controller.

IP42/55 rated (IP 67 optional).

#### **Technical Notes**

Allows easy control from a PC or PLC for single or multiple motors. Low cost alternative to motors, drivers and controllers. Easy to use free software, little cabling. The I/O points can be set up by users as Input or Output or as analogue input.

Resolution: 409600 counts/rev. Mainly supply voltage: 12-80V DC. Control and main I/O supply voltage: 12-28V DC.

Nominal speed range 0.01-3000 rpm.

8 I/0's that can be configured to Inputs, Outputs or analogue Inputs.

Can readily be programmed in Labview, VB etc. The motor can be run independently from PC if required (programmed can be downloaded to motor). Easy connection via USB port, RS 485, optional wireless and ethernet control.

Optional encoders, gearing, motor brake etc.

#### **Important Notes**

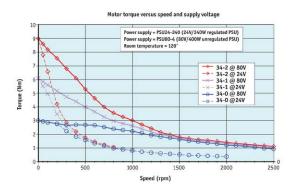
We have a free motor selection help service - including a free motor configuration software programme and technical help to ensure the motor is to your requirement please consult our technical department for full motor specifications.

Order No.	Holding torque Nm	Flange dimensions	Length	Shaft +0 -0.013	Power W max.	Rotor inertia kg·cm²	Typical supply current @24V DC ADC RMS	Typical supply current @48V DC ADC RMS	Typical supply current @80V DC ADC RMS	Weight kg
L3536.34-0	3,0	87x87	95	9,53	260	1,4	5,1	5,1	5,1	2,0
L3536.34-1	6,1	87x87	126	9,53	288	2,7	5,6	5,3	5,6	3,1
L3536.34-2	9,0	87x87	156	14,0	315	4,0	6,0	5,4	6,1	4,2
L3536.34-3	10,5	87x87	220	14,0	>320	5,3	6,3	5,7	6,6	5,3



# Intelligent NEMA 34 Stepper Motors with mactalk software





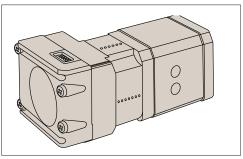


# **Rotary Stages**

Motors & controllers



ositioning Stages from Automotion Components



# Separate motor controllers (single axis)

#### Intelligent stepper motor

- No need for separate motion controller.
- Inbuilt motor, driver and controller.

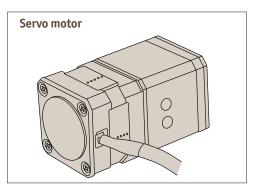
#### **Options**

- Standard
- With rotary encoder (512 line)



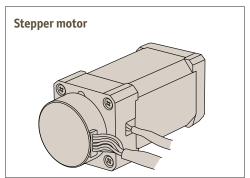
# Intelligent stepper motor 0

- Standard
- With rotary encoder (512 line)



- Standard
- With rotary encoder (1000 line)





• Standard

0333 207 4498

• With rotary encoder (1000 line)





# Positioning Stages

sitioning Stages from Automotion Components

# **Motorised Stages**

Controllers & accessories



#### Controllers



#### L3294 Single axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Uses virtually any programming language



#### L3295 Two axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Programming via Labupu, VB, C++ and OSX etc.
- Stand alone programs can be downloaded
- Max output of 1.5A



#### L3296 Multi axis stepper motor controller

- Communicate via RS-232 or Ethernet interface
- Can control 4 axis and perform coordinated or independent motion of each or all the axis simultaneously
- Uses virtually and programming language



#### L3297 Single axis servo motor controller

- Communicate via RS-232 or Ethernet interface
- Uses virtually any programming language

#### Accessories



Joysticks



Digital readout

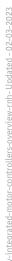


Connector RS232-USB



Connector RS422-USB







# **Integrated Motor Controllers**

**Overview** 



These have major benefits as they combine the motor (from size NEMA17 up) with an inbuilt driver and

- Stepper or servo motor versions.
- Simple to install

- CE certified
- Free software programming

#### Plug and play

- Download free software
- Connect motor to computer (USB port)
- Connect power supply to the motor
- Start controlling/programming

- Low cost solution.
- The I/O points can be set by users to input, output or analogue input.
- NEMA17, 23, 34, 43 and larger sizes available.
- 12-48VDC.

- High torque stepper motors (1.2 to 10.5
- Simple Windows software program provided free).
- Also Labview VB etc. programs.
- IP67, Motor brake.
- Optional Joysticks.





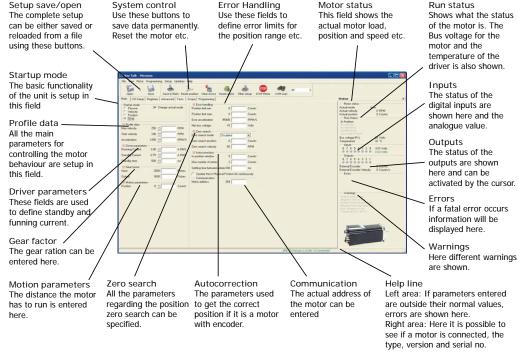
# Positioning Stages

ioning Stages from Automotion Component

## **Setup and Programing**

Software for NEMA23-43 motors





#### Introduction

The software is the main interface for setting up the motor for a specific application. The program offers the following features:

- Choice of the operating mode of the motor
- Changing main parameters such as speed, motor current, zero search type, etc.
- Monitoring the actual motor parameters

in real time, such as supply voltage, input status, etc.

- Changing protection limits such as position limits.
- Saving all current parameters to disc.
- Restoring all parameters from disc.
- Saving all parameters permanently in the motor.

#### **Command toolbox description**

The toolbox used for the programming covers 14 different command types. The idea for the commands is to have an easy access to the most common functions in the motor. Some functions seem to be "missing" at first sight but the button "Set register in the quickstep motor" or "Wait for a register value before continuing" gives direct access to 50 function registers. In total this gives a very powerful programming tool since >95% of a typical program can be built using the simple command icons and the last part is obtained by accessing the basic motor registers directly if required.

