

L-force Servo Drives 9400



New products for September 2009



- ▶ Multi Drives up to 15 kW
- ▶ Safety extensions
- ▶ and even more...

The innovative assembly concept of the 9400 product range – consisting of pluggable device electronics and installation backplane – extends to these new models.

Multi Drives 9400 up to 15 kW

The power range of the 9400 Multi Drives for centrally supplied concepts is now available up to 15 kW continuous power/ 32 A continuous current.

This results in compact solutions in the multi-axis field. The familiar options for communication, function and safety engineering continue to be available as before.

Technical data

Drive type	E944MHE0324
Type of backplane	E94AZPM0324
P _n	15 kW (8 kHz)
I _n	32 A (8 kHz) 40 A (4 kHz)
I _{max}	48.0A (60 s / 180 s) 76.8 A (0.5 s / 5 s)
Dimensions (W x H x D)	350 x 120 x 288 mm

Function extensions in safety engineering

The SM301 safety module has been extended by the following functions:

- ▶ Safe speed detection
e. g. SLS with MCA & MQA motors
- ▶ Safe direction
SDI – Safe direction
- ▶ Resolver as motor encoder in connection with analog SinCos/TTL load encoder for safe speed detection (2 encoder concept)

Extensions with regard to functional safety can be found in the “Drive-based Safety” product information.

EtherCAT V2

In the course of function extensions of the EtherCAT communication module, features have been implemented which will further simplify the interaction with control components.

Function extensions

Firmware version V7.0 includes the following function extensions:

- ▶ Evaluation of a second KTY sensor so that both motors of a twin drive can be monitored in a simple manner
- ▶ Support for the CiA 402 device profile via 9400 HighLine (see below)



- ▶ Improvements to the parameter setting interfaces when using SSI position encoder systems
- ▶ Function blocks for simplifying the commissioning of linear motors

Extensions to the L-force Engineer which comply with the implemented function extensions are made available within the scope of Service Pack 2 for Release V2.10.



CiA402 device profile for 9400 HighLine

The device profile for centrally controlled motion control architectures is available according to CiA 402 / IEC 61800-7-2 with firmware version V7.0. The communication paths CAN and EtherCAT as well as the following operating modes are supported:

- ▶ Homing mode
- ▶ Interpolated position mode
- ▶ Cyclic synchronous position
- ▶ Cyclic synchronous velocity
- ▶ Cyclic synchronous torque

Application-specific parameters are conveniently adapted via corresponding dialogs from the L-force Engineer.