

Convert LXM32M to LXM32S - Application Note

1. Document Scope

Use the present document as a guide to convert a LXM32M AC Servo Drive (multiple communications using the optional communication module) to a LXM32S Sercos Servo Drive (with dedicated communication support on Sercos III).

2. Validity Note

For product compliance and environmental information (RoHS, REACh, PEP, EOLI, etc.), go to www.schneider-electric.com/green-premium.

The characteristics that are presented in this manual should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the manual and online information, use the online information as your reference.

3. Related Documents

Title of documentation	Reference number
LXM32M AC servo drive Product manual	0198441113767 (ENG) 0198441113768 (FRE) 0198441113766 (GER) 0198441113770 (SPA) 0198441113769 (ITA) 0198441113771 (CHS)

You can download these technical publications and other technical information from our website at <http://download.schneider-electric.com>.

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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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4. Commercial Policy / Labeling Policy

Both the LXM32M and the LXM32S, are commercialized worldwide. The intent of this conversion is not to replace the standard products, but in specific cases allowing for the flexibility demanded by customers.

The action to convert a LXM32M to a LXM32S must be managed only in the following cases:

- You already have LXM32Ms in stock as replacement equipment, but want the flexibility to retask the equipment for Sercos III only use.
- You want to use the High Power Drive offer (LXM32MD85N4 / LXM32MC10N4, however, need to use exclusively Sercos III).
- For maintenance reasons, you need to replace a LXM32M by a LXM32S.

The conversion only works in the sense of LXM32M to LXM32S.

Attempting to convert an LXM32S to an LXM32M results in an inoperable product.

NOTICE

INOPERABLE EQUIPMENT

Do not attempt to convert an LXM32S Sercos servo drive into an LXM32M AC servo drive.

Failure to follow these instructions can result in equipment damage.

After the conversion, you must:

- Update the product identification labeling.
- Perform the command Reset user parameters to factory settings.

This conversion, as well as the label management, is under your responsibility.

NOTICE

MISIDENTIFIED PRODUCT

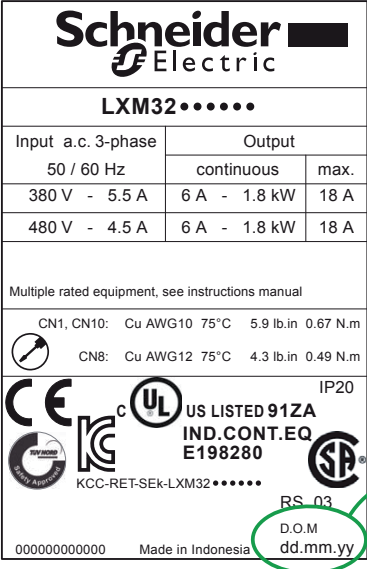
Always update the LXM32M servo drive labeling after the conversion with the LXM32S labels provided with the Sercos III module.

Failure to follow these instructions can result in equipment damage.

5. Required Material

To perform this conversion, you must use the following Device / Software:

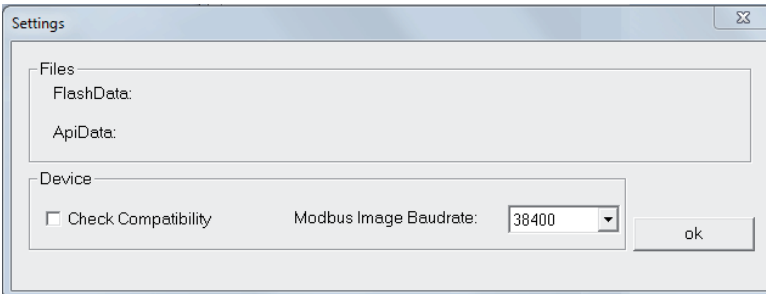
Device / Software required	Description
Optional Sercos III module: VW3M3619	In the packaging of this module, you find: <ul style="list-style-type: none">• An application note: the present document• An instruction sheet: it contains important safety information and installation instructions• Two labels
The latest firmware of the LXM32S	Download the latest firmware of the LXM32S: Firmware LXM32S V01.04.03 http://www.schneider-electric.com/ww/en/download/document/LXM32SFirmwareV010403

Device / Software required	Description
A compatible LXM32M	Verify the LXM32M compatibility. The LXM32M is compatible for conversion if the Date Code is superior to January 2014. To verify this information, refer to the nameplate of the product D.O.M: dd/mm/yy :
	 <p>The nameplate for the Schneider Electric LXM32 shows the following details:</p> <ul style="list-style-type: none"> Brand: Schneider Electric Model: LXM32 Input: a.c. 3-phase, 50 / 60 Hz Output: continuous and max. values for 380 V - 5.5 A and 480 V - 4.5 A. Multiple rated equipment, see instructions manual. CN1, CN10: Cu AWG10 75°C 5.9 lb.in 0.67 N.m CN8: Cu AWG12 75°C 4.3 lb.in 0.49 N.m IP20 UL US LISTED 91ZA IND. CONT. EQ E198280 KCC-RET-SEK-LXM32 RS_03 D.O.M dd.mm.yy (circled in green) 000000000000 Made in Indonesia <p>A green arrow points from the circled date code 'D.O.M dd.mm.yy' on the nameplate to the text 'D.O.M dd.mm.yy' on the right side of the table.</p>
The Lexium Flashtool Software	Download the Lexium Flashtool Software: http://www.schneider-electric.com/ww/en/download/document/LXM32Flashtool Minimum version requested: V2.1.8

6. Flash the LXM32M

The procedure to flash the LXM32M is the standard procedure; however, when you flash a LXM32M with the firmware LXM32S you must:

- Launch Lexium Flashtool
- Select File → Settings
- Unselect Check Compatibility



Refer to LXM32 Flashtool Guide.pdf to perform the firmware upgrade.

7. Factory Settings

After flashing the LXM32M, the command **Reset user parameters to factory settings** must be performed by one the 2 following ways:

- 7.1. The commissioning tool SoMove
- 7.2. The LXM32S internal HMI

⚠ WARNING

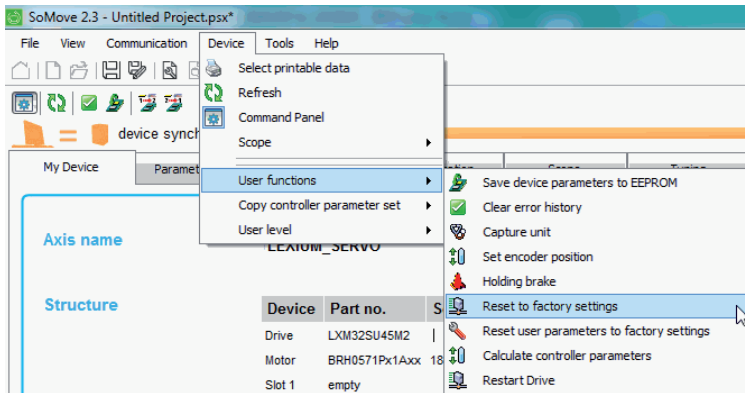
UNINTENDED EQUIPMENT OPERATION

Ensure that the drive has been reset to factory setting before putting into service or otherwise commissioning the drive.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

7.1. Commissioning tool SoMove:

In SoMove, select **Device** → **User functions** → **Reset user parameters to factory settings**:



For more information, refer to SoMove OnLine Help.

7.2. LXM32S internal HMI:

Factory settings via HMI Use the menu items CONF → FCS- → rStF of the HMI to restore the factory settings.

Confirm the selection with yes.

The new settings only become active until after the device is powered off and on again.