



AMKASYN
Servo inverter AN/AZ/AW
Controller card AZ-R02

Version: 2001/50

Part No.: 28626

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AMK

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Important advice:

Touching of the electrical connections on the plug-in card must be avoided, otherwise electronic components could be destroyed through static discharge.

Take plug-in card directly out of packing and insert into the extreme right option slot in the AZ module without using force. Then secure with screw below the card grip.



1 Central processor AZ-R02 plug-in card

The plug-in card AZ-R02 is located in the rack for the additional cards at the slot on the extreme right. It is secured by means of a screw in the front panel below the card grip against inadvertent loosening.

The central processor controls the entire drive system. All data is available here and can be transferred through different interfaces internally and to the higher ranking control system. Setpoints and control data generally are transferred by interfaces on the AZ module to the controllers of the AW modules.

System parameters and configuration data are stored permanently in the EEPROM on the AZ-R02. Access to this data is possible through the internal control panel AZB or by means of a PC with associated start up and parameterization software AIPAR/APS through the RS 232C interface on the AZ-R02 card.

Software version from AZ 3.08 xxxx is required for AZ central processor card AZ-R02!

Additionally the following ID-Numbers / functions are available in this software version:

The AZ interpolators can control up to 8 axes simultaneously.

ID265 Language

The language for ID designation and diagnostic information can be changed via ID265:

Code 0 for GERMAN

Code 1 for ENGLISH

Code 2 for FRENCH

After changing the ID265 entry: Power OFF

Earliest after a delay of 30s: Power ON for system rebooting.

The following extensions can be used on AW modules with **software version from AW-VE V02.13 xxxx**:

Monitor for sense of control

Activated by bit 19 = 1 in ID32773.

Software pulse transmission (SIWL):

Option card AW-IWR is required in the AW module

ID32964 Source for software pulse transmission

ID32965 Software pulse transmission module width
In this grid a reference pulse is generated.

D32966 Pulse ratio multiplier (-32768...+32767)

ID32967 Pulse ratio divider (1...+8191)

Touch probe function (for SERCOS applications only)

Option card **AZ-IG2** is required for this function!

ID130/ID131 Probe 1, positive / negative edge

ID169 Probe control parameter

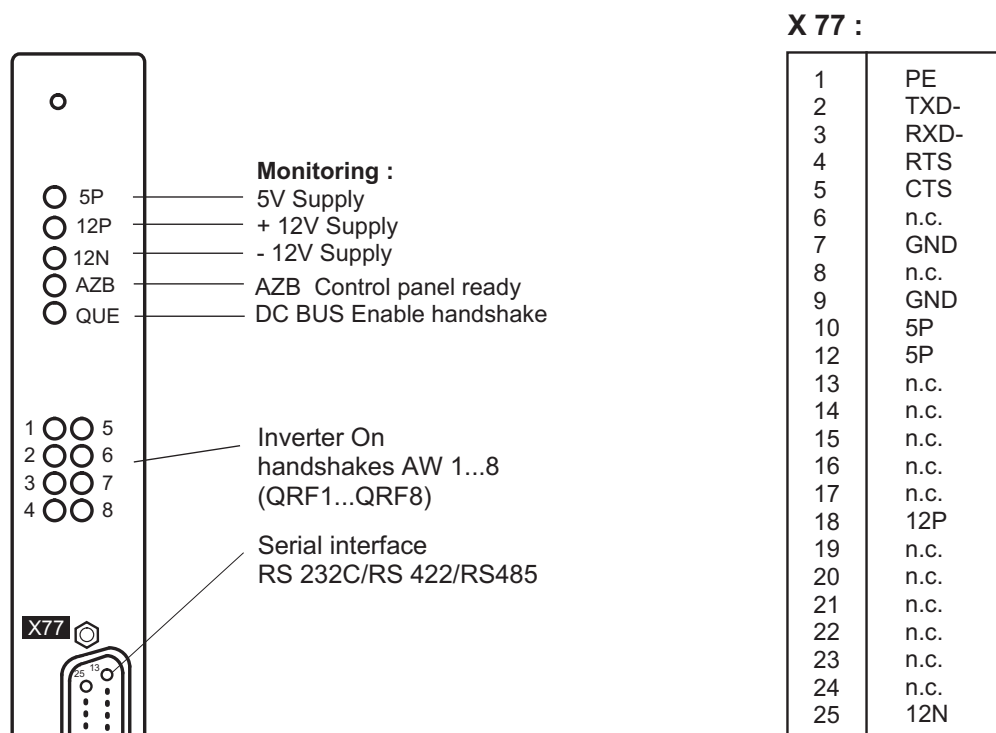
ID170 Probing cycle procedure command

ID179 Probe status

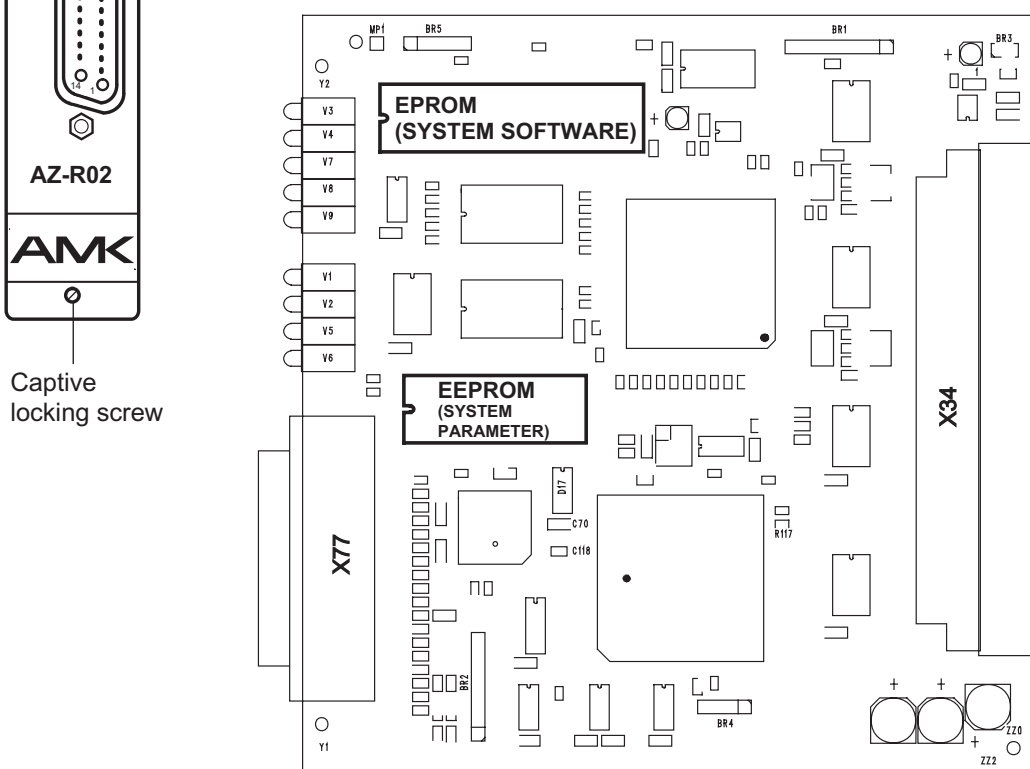
ID405 Probe 1 enable

ID409/ID410 Probe 1 positive / negative latched

1.1 AZ-R02 Front panel and component mounting diagram



Component mounting drawing :



1.2 AZ-R02 ESD-PROTECTION / INSTALLATION:

Please do not touch the electrical connections or the exposed contacts on the front or backside of the plug-in circuit boards. Static-electricity due to handling of the boards can destroy the board level components. Please make sure the person handling the boards has proper PE-ground connection to reduce static-electricity.

Please insert the plug-in board directly from the packaging into the extreme right slot in the AZ-module without using force and secure the board with the captive screws underneath the card-holder.

1.3 Sequence for exchange procedure of the AZ-R02 card:

1. Make sure the AMKASYN-system is without power.
2. Remove front cover on AZ-module.
3. Unscrew the captive screws below the card grip which hold the board in place.
4. Remove the AZ-R02 card by the card holder and lay on a nonconductive surface (bubble wrap etc.).
5. Take the new AZ-R02 card out of the packaging. Only handle it by the front card holder or by the front cover.
6. Insert this new AZ-R02 card into the extreme right slot in the AZ-module and secure it with the captive screw.
7. The AMK default parameter set is stored on a new AZ-R02 card.
The actual, machine specific parameter set must be down loaded to the AZ-R02 card before restart of the entire system (please first consult the machine manufacturer)!

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