# AMKASYN
# Servo inverter AN/AZ/AW
# Controller card AZ-R01

Version: 2000/30
Part No.: 24377
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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.**
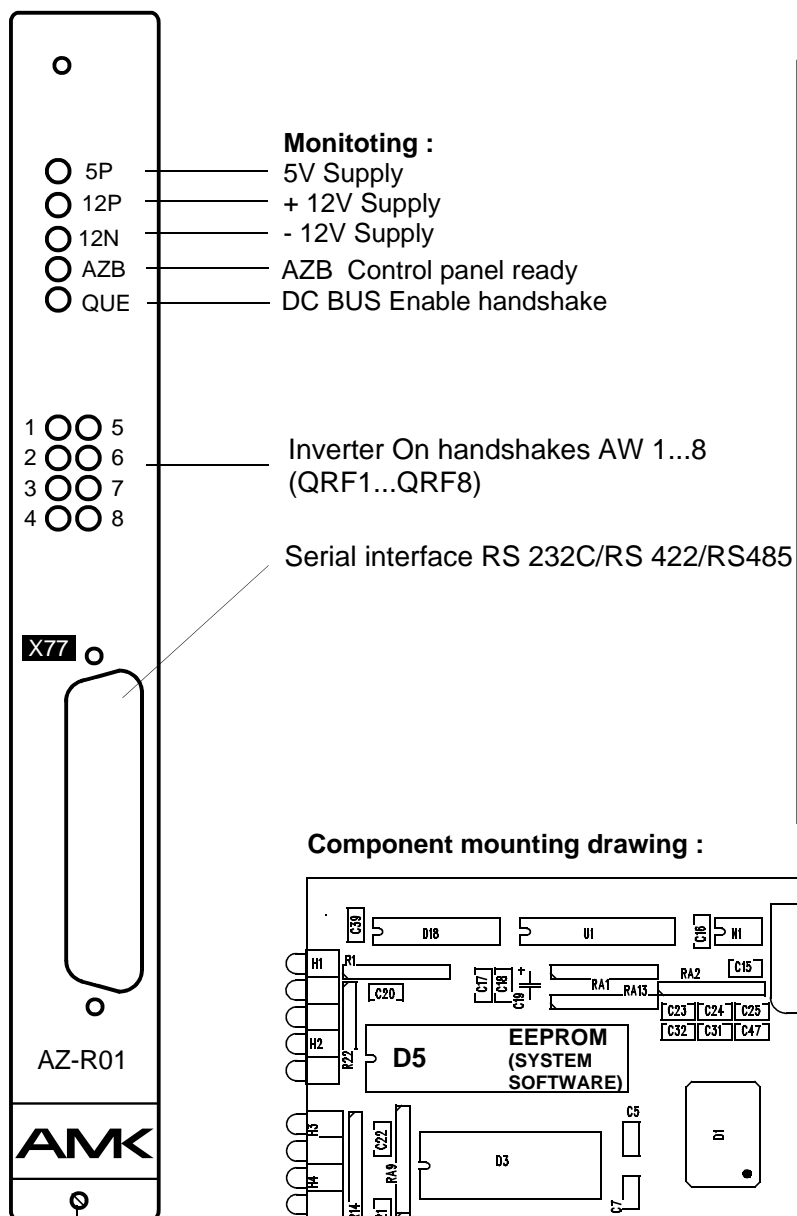
**ACHTUNG**
Nur geschultes Personal darf die Verpackung öffnen

Elektrostatisch gefährdete Bauelemente (EGB)

**ATTENTION**
Observe Precautions for Handling

Electrostatic Sensitive Devices
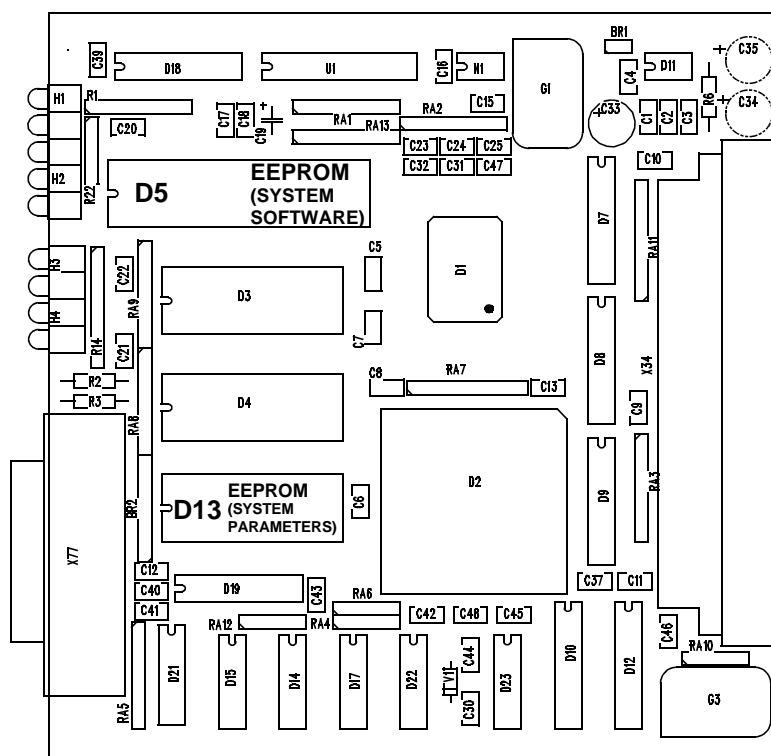
# 1 Central processor AZ-R01 plug-in card

The plug-in card AZ-R01 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. Set points 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-R01. 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 through the RS 232C interface on the AZ-R01 card.

**X 77 :**

| | |
|---|---|
| 1 | PE |
| 2 | TXD- |
| 3 | RXD- |
| 4 | RTS |
| 5 | CTS |
| 6 | n.c. |
| 7 | GND |
| 8 | n.c. |
| 9 | GND |
| 10 | 5P |
| 12 | 5P |
| 13 | n.c. |
| 14 | n.c. |
| 15 | n.c. |
| 16 | n.c. |
| 17 | n.c. |
| 18 | 12P |
| 19 | n.c. |
| 20 | n.c. |
| 21 | n.c. |
| 22 | n.c. |
| 23 | n.c. |
| 24 | n.c. |
| 25 | 12N |

**Monitoting :**

- 5P — 5V Supply
- 12P — + 12V Supply
- 12N — - 12V Supply
- AZB — AZB  Control panel ready
- QUE — DC BUS Enable handshake

Inverter On handshakes AW 1...8
(QRF1...QRF8)

Serial interface RS 232C/RS 422/RS485

X77

AZ-R01

AMK

Captive
locking screw

**Component mounting drawing :**

## 1.1 AZ-R01 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.

## 1.2 Sequence for exchange procedure of the AZ-R01 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 grp which hold the board in place.
4. Remove the AZ-R01 card by the card holder and lay on a nonconductive surface (bubble wrap etc.).
5. Take the new AZ-R01 card out of the packaging. Only handle it by the front card holder or by the front cover.
6. Insert this new AZ-R01 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-R01 card.
   The actual, machine specific parameter set must be down loaded to the AZ-R01 card before restart of the entire system (please first consult the machine manufacturer)!

## 2 Imprint

| | |
|---|---|
| **Title** | **PDK_024377_AZAW_R01_en** |

| | |
|---|---|
| **Purpose** | **Hardware description controller card AZ-R01** |

| | |
|---|---|
| **Part number** | **24377** |

**History**

| Publication date |
|---|
| 2000/30 |
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**Reservation**

Modifications to the content of the documentation and the delivery options for the products are reserved.

**Service**

Tel. no. **+49/(0)7021 / 5005-191, Fax -193**

Office hours:
Mon.-Fri. 7:30 - 16:30, on weekends and public holidays the phone number of the standby service personnel is available on the answering machine.

You can assist us in finding a fast and reliable solution for the malfunction by providing our service personnel with the following:

- Information located on the ID plate of the devices
- The software version
- The device setup and the application
- The type of malfunction, suspected cause of the failure
- The diagnostic messages (error codes)

**Publisher**

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