

AMK AE-R03 KW-R03-1208365

Inverter Controller Card

Product scope

- Provides the regulation and parameter-processing layer inside compatible AMK compact inverters.
- Coordinates drive data through the native ACC-bus architecture.
- Uses the AE-R03 software family and a defined KW-R03 hardware revision.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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AMK AE-R03 KW-R03-1208365

Inverter Controller Card

Product overview

AMK AE-R03 KW-R03-1208365 is a KW-R03 controller-card configuration for AMKASYN KE/KW compact inverter systems. It executes drive regulation, parameter handling and ACC-bus coordination inside the compatible power module.

AE-R03 KW-R03-1208365 identifies an AMK KW-R03 controller card carrying the AE-R03 software family and the unit-specific 1208365 identifier. KW-R03 is installed in supported KW or KWD compact inverter assemblies rather than used as a stand-alone drive.

The card closes the current, speed and position-control tasks assigned to the inverter and exchanges coordinated data over the AMK ACC bus. Stored motor and machine parameters determine how the surrounding power section behaves after startup.

A replacement must be checked against controller-card hardware revision, AE-R03 software level, motor data, parameter set and inverter power hardware. Transferring a board without the verified dataset can produce incorrect feedback scaling or motion response.

Technical specifications

Controller card designation	KW-R03
Software family	AE-R03
System platform	AMKASYN KE/KW compact inverter
Order reference	O688
Controller-card part number	46458
Minimum documented hardware revision	2.00
Documented AE-R03 release	V3.04, 2003/41
Release part reference	200301
Later documented software line	AE-R03 A07 V3.21
Later release date	2014/31
Later software part reference	205307
System bus	AMK ACC bus
Drive function	Current, speed and position regulation
Parameter storage	Drive and motor data set
Supported inverter hardware	Compatible KW and KWD modules
Installation form	Internal controller card
Output-frequency capability in supported KW system	0 to 800 Hz

AE-R03 KW-R03-1208365 function and operating principle

Ordered configuration

The listed configuration combines the KW-R03 card identity with AE-R03 software and a unit identifier.

System role

It determines the operating behavior of the associated motor and inverter power stage.

Selection and installation

Controller revision and saved drive data must be matched before an exchanged card is allowed to enable torque.

Functional path

- Provides the regulation and parameter-processing layer inside compatible AMK compact inverters.
- Coordinates drive data through the native ACC-bus architecture.
- Uses the AE-R03 software family and a defined KW-R03 hardware revision.

Application scenarios

- Coordinated machine axes use the card for speed or position control inside an AMKASYN inverter assembly.
- Retrofit service can restore a failed regulator while retaining the mechanically sound KW power section.
- Production equipment using ACC-bus synchronization relies on the board for deterministic exchange with neighbouring drive components.

AE-R03 KW-R03-1208365 engineering checks

Configuration & Programming

- Motor, encoder and control-loop parameters are stored in the drive dataset used by the controller card.
- Commissioning software must recognise the installed KW-R03 hardware and AE-R03 release.
- Parameter restoration should be completed before the inverter enable signal is accepted.

Compatibility

- The controller card is intended for compatible AMKASYN KE/KW and KWD compact inverter assemblies.
- Hardware revision and AE-R03 software level must support the surrounding power module and options.
- The unit-specific identifier does not replace verification of the AMK controller-card part number and order reference.

Firmware & Updates

- AMK documented several AE-R03 releases, so an update path depends on the installed hardware baseline.
- Firmware changes require retention of the validated motor and machine parameter set.
- A replacement should use an approved release rather than loading a newer image solely because the file is available.

Critical technical note

Back up the complete AE-R03 parameter set before removing AE-R03 KW-R03-1208365; an uncommissioned card must not be used to run the axis.

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