



**AMKASYN**  
**KWZ two-axis inverter module**

**AMK**

## KWZ two-axis inverter module

Two inverter modules in one housing.

The KWZ two-axis inverter module combines two independent KW inverters in a single housing, thereby providing a cost-effective and very compact solution for the precise and dynamic control of synchronous and asynchronous motors, torque motors, linear motors, etc.

The modules can be combined with KEN 5 or KEN 10 compact supply modules to create multi-axis servo drive systems boasting optimum cost effectiveness.

### Features:

- 2 axes in a single device in the power range 2 x 1 up to 5 kVA
- Sensorless speed control for synchronous and asynchronous motors
- Each axis can operate in servo mode with
  - Resolver
  - EnDat® 2.1 digital (no analog signals)
  - 1 Vpp sine-wave encoder, no reference pulse
- ACC bus (CANopen) communication
- EtherCAT as an option
- Safe interlocking to prevent impermissible motor startup (EN954 Cat. 4) by means of output stage enable (EF)
- Very compact dimensions
- Reduced costs in respect of device technology and cabling
- Cold plate cooling technology

### Applications

A cost-effective solution for the implementation of „medium-performance“ applications, e.g.,

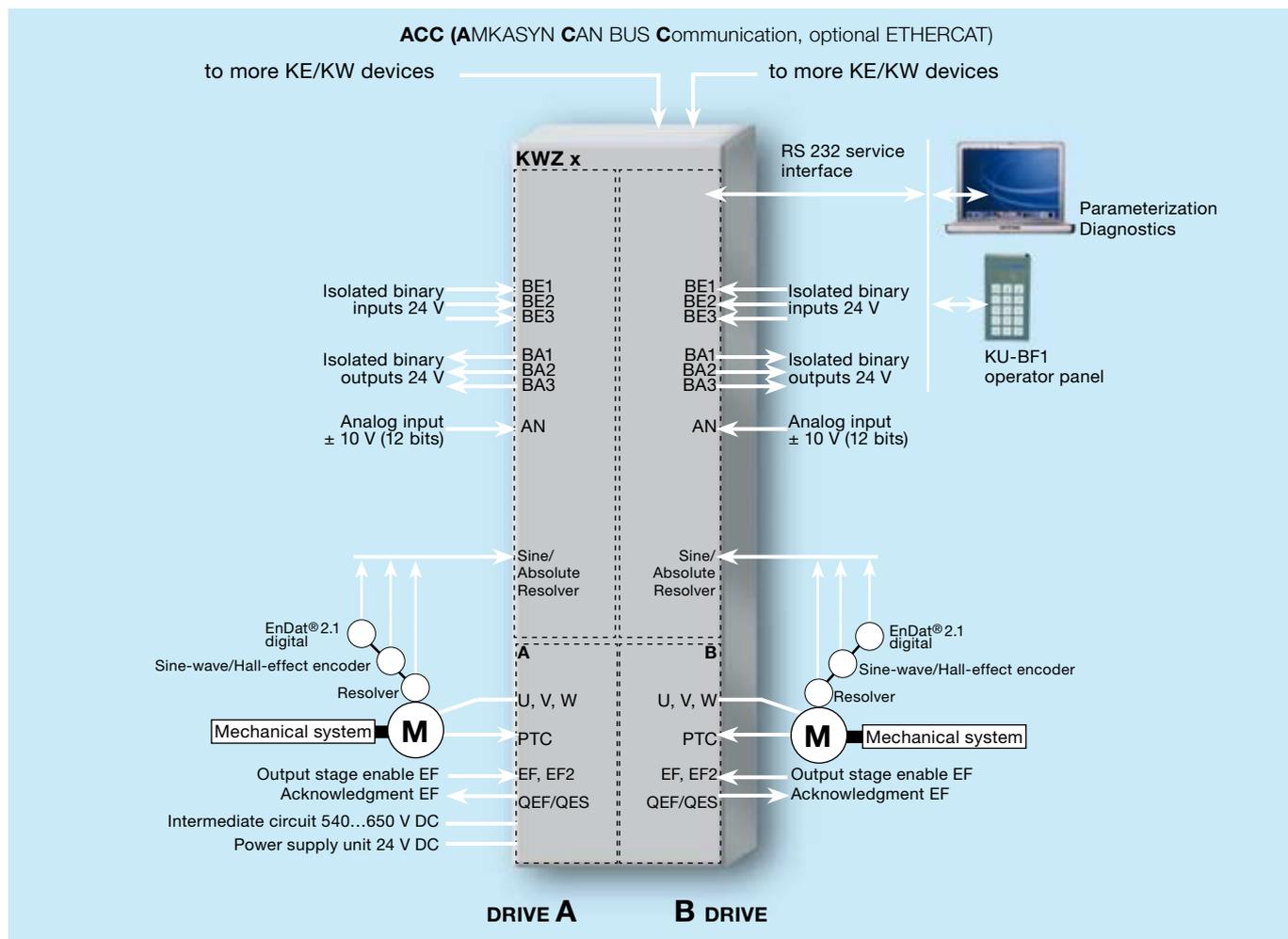
- Packaging machines
- Automation and handling systems
- Conveyor belts
- Pumps

### Standard functions

- Standard functions
- Torque control
- Speed control
- Position control
- Positioning functions
- Synchronous control
- Homing in many variants
- Measuring probe functions
- Holding brake control



## KWZ interface overview



## Technical Data

Type		KWZ 1	KWZ 2	KWZ 5
Input voltage	V DC		540...650	
Input current	A	3,8	7,6	19
Rated output voltage	V AC	3 x 350 for sinusoidal current		
Output frequency	Hz	0.....800		
Rated output power	kVA	2 x 1	2 x 2	2 x 5
Maximum output power	kVA	2 x 2	2 x 4	2 x 10
Rated output current	A	2 x 1,65	2 x 3,3	2 x 8,3
Maximum output current (for 10 s)	A	2 x 3,3	2 x 6,6	2 x 16,5
Efficiency	%	> 97		
Cooling	-	Coldplate		
Protective function	-	Motor overcurrent, short circuit, ground fault, overtemperature, I <sup>2</sup> T monitoring		
Switching frequency	kHz	8		
Weight	kg	3		
Dimensions: width (H=333, D=255)	mm	55		
AMK part no.		E 841	E 842	E 843

## Control your Motion.



# AMK

AMK Arnold Müller GmbH & Co. KG  
Drives and Controls

Postfach 13 55  
D-73221 Kirchheim/Teck

Gaußstraße 37-39  
D-73230 Kirchheim/Teck

Telefon: +49 (0)70 21/50 05-0  
Telefax: +49 (0)70 21/50 05-199

info@amk-antriebe.de  
www.amk-antriebe.de