

## ALL-IN-ONE MULTI-AXIS DRIVE

# KeDrive D3-AC

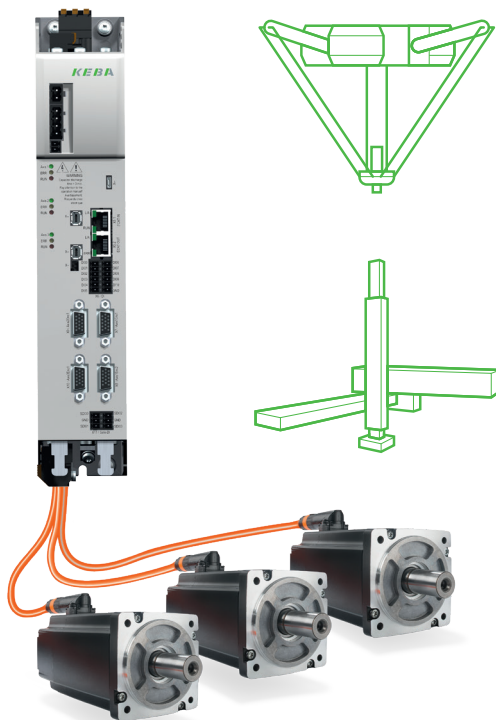
Economical drive technology for compact machines



Machines with only a few drives require „all-in-one drives“ like the new KeDrive D3-AC. It integrates AC mains input, motor output & control, a mains filter and the braking resistor. Very special is that up to 3 axis controllers are integrated in one unit. This allows a very compact design and extremely reduces the wiring effort.

### Focus to handling applications

KeDrive D3-AC is well suited for triple-axis handling kinematics. Particularly with cartesian robots, increased drive power is required in the Z-axis. For this reason, triple-axis drives with 4A|4A|8A or 8A|8A|12A rated currents are available. Gantry systems with multiple motors can be controlled with an axis-integrated function module.



### Open for various automation concepts

Different fieldbus protocols allow the KeDrive D3-AC to be quickly integrated into a wide range of automation concepts. Total automation solutions can also be easily implemented together with KEBA robot controllers and HMIs.

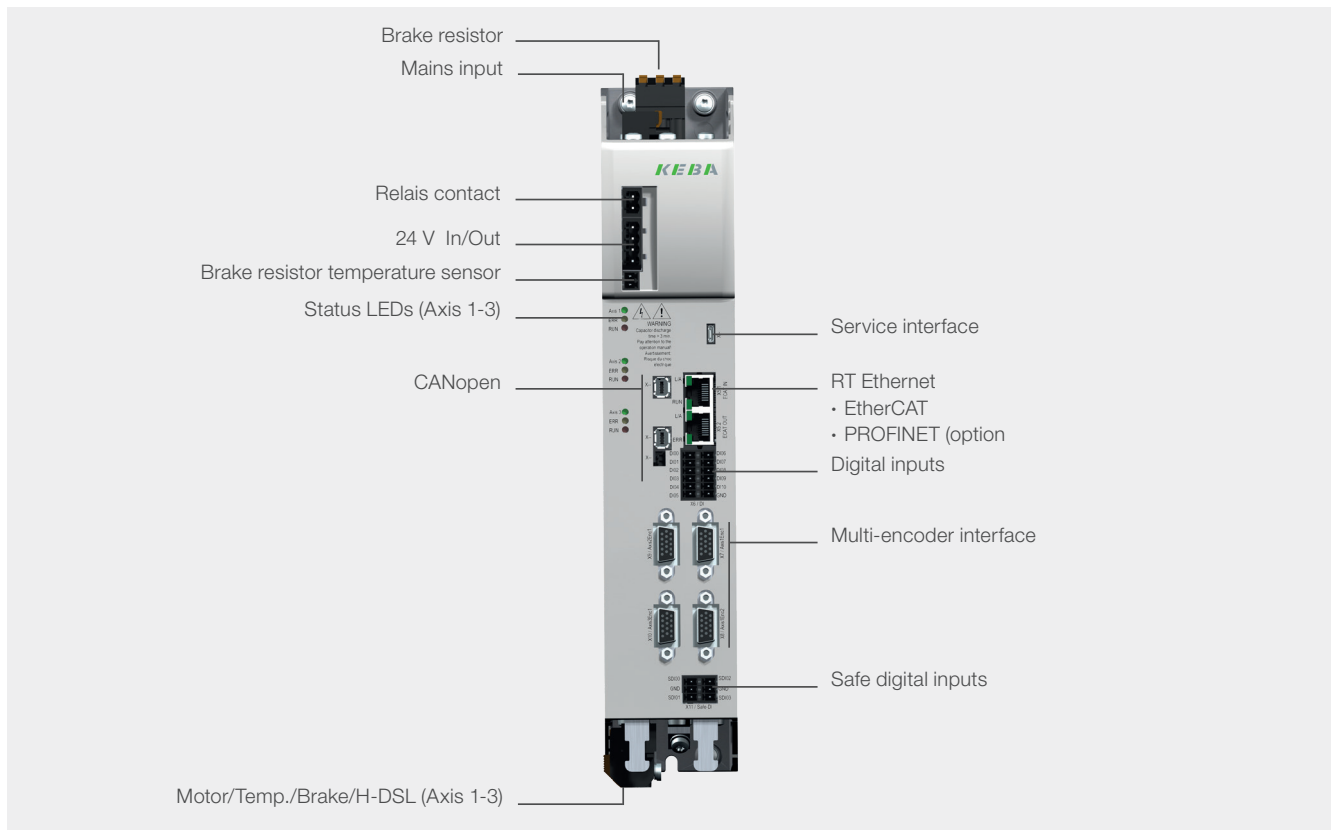
### Drive system for modular machines

KeDrive D3-AC is part of the KeDrive D3 drive series. The KeDrive D3 multi-axis drive system is a powerful solution for machines with a large number of axes. For compact machines with a small number of axes, KeDrive D3-AC now provides an even more cost-effective solution. Thus, the KeDrive D3 system offers economic drive solutions starting with just one axis.

### Your added values

- // Extrem compact with up to 3 axes in one unit
- // Up to 3-times overload
- // „High-load“ axis @ triple-axis drives
- // 1/3 x 230 V & 3 x 400|480 V AC supply voltage
- // Integrated mains filter & brake resistor
- // EtherCAT & PROFINET IRT
- // CANopen
- // Scalable Safe Motion acc. SIL 3, PL e Kat. 4
- // Safe communication via FSoE & PROFIsafe
- // Extended motor control functions e.g. gantry
- // Flexible & open motor and encoder interface

## Interface overview



## Technical data – Drive modules overview

KeDrive D3-AC drive controller											
<b>Input</b>											
Supply voltage	3 x 230 - 480 V AC ± 10%					3 x 400 - 480 V AC ± 10%					
Nominal DC link power [kW]	4					8					
Maximum DC link power [kW]	8					16					
Mains filter	Integrated (optional) or external										
Brake resistor	Integrated (optional) or external										
<b>Output</b>											
Single-Axis	Nominal current [A]	4	8				12	16			
Double-Axis	Nominal current [A]			4   4	8   8				8   8	12   12	
Triple-Axis	Nominal current [A]					4   4   8					8   8   12
	Maximum output current [A] (10 s)	8	16	8   8	16   16	8   8   16	24	32	16   16	24   24	16   16   24
	Maximum output current [A] (500 ms)	12	24	12   12	24   24	12   12   24	32	32	22   22	32   32	22   22   32
<b>Interfaces</b>											
Encoder interface	Resolver, SinCos, TTL, HIPERFACE, HIPERFACE DSL (optional), EnDAT, BiSS, Tamagawa, Nikon										
Fieldbus	EtherCAT, PROFINET IRT (optional), CANopen (optional)										
Safety - standard	STO (SIL3, PL e Kat. 4), SBC (SIL 2, PL d Kat 3)										
Safety - optional	Safe Motion: SSX, SOS, SLS, SLP, ... Safe fieldbus protocols: FSoE, PROFIsafe										
<b>Mechanical data</b>											
Size	BG1					BG2					
Dimensions [mm]	60 x 310 x 225					90 x 310 x 225					
Cooling system	Air cooling										

Note: Preliminary data