

ALL-IN-ONE MULTI-AXIS DRIVE

KeDrive D3-AC

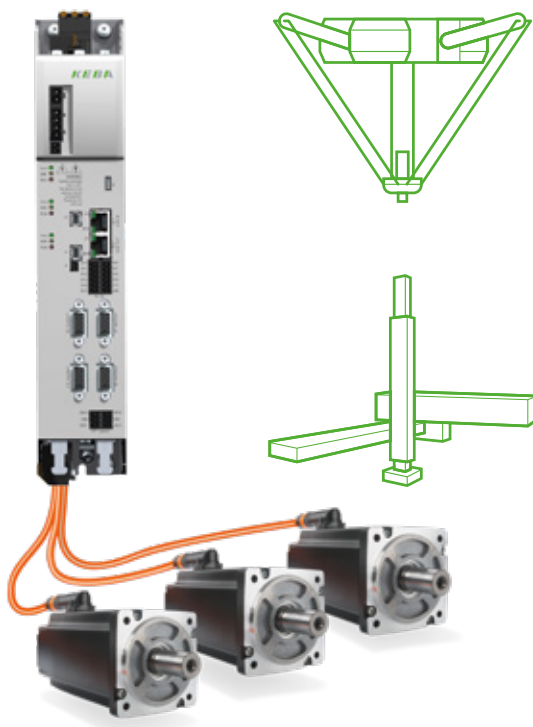
Economical drive technology for compact machines



Machines with only a few axes 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. Unique about KeDrive D3-AC 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 on handling applications

KeDrive D3-AC is well suited for triple-axis handling kinematics. Cartesian robots in particular often require increased drive power in one of the axes. For this reason, triple-axis drives with 6A|4A|4A or 12A|8A|8A rated currents are available, among others. Gantry systems required for this can be controlled with an drive-integrated function module.



Open for various automation concepts

Different fieldbus protocols enable the standardized and flexible integration of the KeDrive D3-AC into a wide range of automation concepts. Total automation solutions can also be easily implemented together with KEBA robot controllers and HMIs.

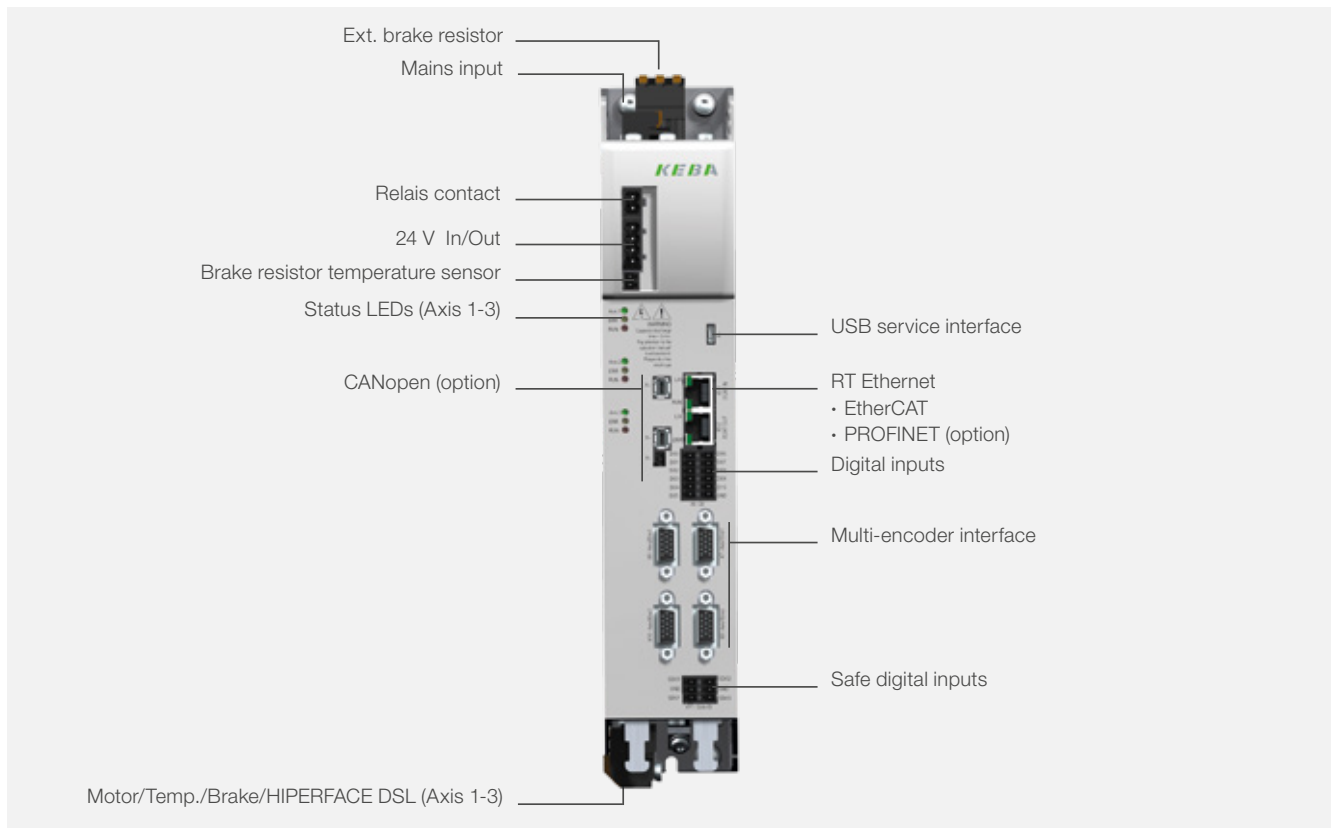
Drive system for modular machines

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

- // Extremely compact with up to 3 axes in one unit
- // Minimal installation and wiring effort
- // Up to 3-times overload
- // „High-load“ axis @ double-axis and triple-axis controllers
- // 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

KeDrive D3-AC drive controller									
Input									
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								
Output									
Single-Axis	Nominal current [A]	4	8			12	16		
Double-Axis	Nominal current [A]			8 4				12 8	
Triple-Axis	Nominal current [A]				6 4 4				12 8 8
	Maximum output current [A] (10 s)	8	16	16 8	8 8 8	24	24	24 16	24 16 16
	Maximum output current [A] (500 ms)	12,5	24	24 10	11 11 11	35	35	35 24	35 24 24
Interfaces									
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								
Mechanical data									
Size	BG1				BG2				
Dimensions [mm]	60 x 310 x 225				90 x 310 x 225				
Cooling system	Air cooling								

Note: Preliminary data