KEB — F5 Combivert Axis Drives

07.F5.C1B-2B0A



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The **07.F5.C1B-2B0A** is an axis drive module built by KEB for the F5 Combivert Axis Drives series. It converts fixed 230 V input power into variable frequency and voltage suitable for servo or induction motors, enabling closed-loop speed and torque regulation in automated machines. An internal braking transistor directs regenerated energy to an external resistor during deceleration, eliminating the need for a separate braking chopper.

The power channel provides a continuous output of **0.75 kW** at a motor terminal current of **4 A**, while short-duty overloads are tolerated up to **8.6 A**. This overload margin supports rapid acceleration without causing unnecessary trips. The DC link supplies an IGBT bridge that can switch at **16 kHz**, reducing audible noise and torque ripple. Incoming power may be single-phase or three-phase because the converter accepts a **single- or three-phase 230 VAC supply**. The factory-installed braking transistor diverts regenerated energy into an external resistor, preventing DC bus overvoltage during deceleration. Internal monitoring reports excess current, heat, or bus faults to the controller through two transistor outputs and two relay contacts, with each relay rated for 30 VDC at 1 A.

For field signals, the drive provides two analog inputs, two analog outputs, eight digital inputs, two relay outputs, and two transistor outputs. Process variables are scanned every **2 ms**, and the analog channels provide **12-bit precision** for fine torque adjustments. The total sourcing capacity across the digital output block is 50 mA, matching typical sensor loads. The housing follows form factor code B and measures **90 × 220 × 160 mm**, allowing installation in narrow control panels. Its electromagnetic compatibility classification is **C1**, supporting use in installations that require low conducted emissions. A molded enclosure provides physical protection, while terminals

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along the front edge keep the wiring area accessible.

Specifications

Analog Input Resolution:	12 bit	**Analog Inputs:**	2	**Analog Outputs:**	2
Digital Inputs:	8	**Digital Output Current:**	50 mA Total	**Dimensions (w X H X D):**	90 x 220 x 160 mm
Emc Class:	C1	**Housing Form Factor Code:**	B	**I/o Scan Time:**	2 ms
Installed Accessories:	Braking transistor	**Max Switching Freq:**	16 kHz	**Peak Current:**	8.6 A
Product Series:	Combivert F5	**Rated Current:**	4 A	**Rated Power:**	0.75 kW
Relay Outputs:	2	**Relay Rating:**	30 VDC / 1 A	**Supply:**	1-/3-Phase 230 V AC
Transistor Outputs:	2	**Last Verified:**	11/06/2026 7:12 PM		

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