KEB — F5 Combivert Axis Drives

09.F5.B1B-3900



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The **09.F5.B1B-3900** axis drive is produced by KEB and belongs to the F5 Combivert Axis Drives series. It is a standalone inverter module that converts three-phase mains power into controlled output voltage and frequency for induction or synchronous motors in automated machinery. Within an automation cell, it executes torque and speed commands so conveyors, winders, or positioning tables can operate without mechanical variators. The unit applies KEB's BASIC open-loop flux vector algorithm to coordinate motor flux and rotation without encoder feedback.

It is rated for a **400 V AC/DC** input supply and converts this power to an adjustable output frequency of up to **800 Hz**, making it suitable for high-speed spindles or compact servomotors. Short bursts of load are handled by a current reserve equal to **180% of the nominal value**, while overcurrent trips are delayed until the drive reaches 216% to prevent unnecessary shutdowns during acceleration. Pulse-width modulation is generated at **4 kHz**; this carrier frequency limits acoustic noise while remaining high enough for smooth torque production. Internal logic, I/O, and contactor coils are supplied through an isolated **24 V DC** control circuit that keeps the drive responsive when the main bus is de-energized.

Cycle coordination with a PLC is aided by an I/O scan period of **2 ms**, five parameter-selectable digital inputs, and two relay outputs. Power enters through a **three-phase terminal block**, and a single analog input accepts external speed references such as 0-10 V signals. The housing, which has form factor code B, measures **90 × 220 × 160 mm**, providing panel depth for the integrated braking transistor and the **GTR7 dynamic resistor connection**. The built-in braking chopper manages regenerated energy by directing it to the connected dynamic resistor.

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Seventeen control terminals provide organized field wiring inside compact cabinets and support the available input and output connections.

Specifications

Analog Inputs:	1	**Braking Chopper:**	GTR7	**Control Terminals:**	17
Control Type:	BASIC (Open loop flux vector control)	**Control Voltage:**	24 V DC	**Cooling Type:**	Standard
Digital Inputs:	5	**Dimensions (w X H X D):**	90 x 220 x 160 mm	**Encoder Feedback Card:**	None
Housing Form Factor Code:	B	**I/o Scan Time:**	2 ms	**Input Phases:**	3
Input Voltage:	400 V AC/DC	**Installed Accessories:**	Braking transistor	**Max Output Frequency:**	800 Hz
Max Short-time Current:	180%	**Oc Trip Current:**	216%	**Product Series:**	Combivert F5
Relay Outputs:	2	**Switching Frequency:**	4 kHz	**Last Verified:**	11/05/2026 10:11 PM

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