KEB — F5 Combivert Axis Drives

07.F5.B1B-3900



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The **07.F5.B1B-3900** is an axis drive module produced by KEB for the F5 Combivert Axis Drives series. It modulates three-phase motor power in automated machinery by converting controller commands into regulated motor speed and torque. In production lines, the unit serves as the power stage that executes motion profiles generated by higher-level PLCs or motion processors. Its open-loop operating method supports applications that do not require closed-loop position verification.

The BASIC open-loop flux-vector control platform processes field data through **1** analog input with **11-bit** resolution. The drive also has **5 digital inputs** for start, stop, and preset speed commands, while an internal scan time of **2 ms** supports a rapid response to field signals. The switching devices operate at **4 kHz** to shape the output waveform supplied to the motor. The control board includes a GTR7 integrated braking transistor, which controls current through a suitable external braking resistor during dynamic deceleration. Two relay outputs rated for 30 VDC at 1 A handle status or fault signaling. The terminal strip provides seventeen connection points for power and input/output wiring. Because an encoder feedback card is not installed, the drive uses calculated rotor-flux models for speed regulation.

A separate control supply of **24 V DC** keeps the logic active when the main power is isolated. The power stage accepts a **400 V AC/DC** input, with three-phase operation used for an AC supply, to energize the connected motor. Temporary overloads are tolerated up to **180%** of the rated current, providing additional current during short acceleration periods. An overcurrent trip activates at **216%** of the rated current to protect the semiconductor bridge

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from excessive electrical stress. The housing uses form-factor code B and standard cooling, so the cabinet must provide sufficient airflow around the module. Its three-phase topology supports controlled acceleration of high-inertia loads while the overload protection limits current before the power components exceed safe operating conditions.

Specifications

Analog Input Resolution:	11 bit	**Analog Inputs:**	1	**Braking Transistor:**	GTR7 Integrated
Control Supply:	24 V DC	**Control Type:**	BASIC (Open loop flux vector control)	**Cooling Type:**	Standard
Digital Inputs:	5	**Encoder Feedback Card:**	None	**Housing Form Factor Code:**	B
I/o Scan Time:	2 ms	**Installed Accessories:**	Braking transistor	**Max Short-time Current:**	180%
Oc Tripping Current:	216%	**Product Series:**	Combivert F5	**Relay Outputs:**	2
Relay Rating:	30 VDC / 1 A	**Supply Phases:**	3-Phase	**Supply Voltage:**	400 V AC/DC
Switching Frequency:	4 kHz	**Terminal Count:**	17	**Last Verified:**	11/04/2026 7:36 PM

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