KEB — F5 Combivert Axis Drives

07.F5.B3A-0A00



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The **07.F5.B3A-0A00** is an AC axis drive produced by KEB within the F5 Combivert Axis Drives series. It applies BASIC open-loop flux-vector algorithms to regulate induction motor speed and torque in industrial automation cells that do not require closed-loop feedback. By converting single-phase line power into a variable-frequency output, the unit supports pumps, fans, and material-handling equipment that need dependable speed control from a compact, panel-mounted device.

The drive accepts a **230 V AC/DC** supply, with AC power provided through a **single-phase** mains connection. Its continuous power rating is **0.75 kW**, and its nominal line current is **4 A**. The output stage switches the DC link at **8 kHz**, limiting audible noise while maintaining accurate current regulation. Five digital inputs and one analog input accept commands, and the microcontroller scans these channels every 2 ms to coordinate parameter changes with the switching cycle. Two form-C relay outputs return status signals to control systems. The integrated braking transistor dissipates regenerated energy locally, while an internal EMI filter reduces conducted disturbances on the supply.

The power section can continuously supply up to **8.6 A** and tolerate brief surges reaching **180%** of its rated current before current limiting intervenes. An overcurrent trip set at **216%** protects the insulated-gate bipolar transistors from excessive electrical stress. The **IP20** enclosure is suitable for installation inside a protective cabinet and permits convection cooling around the housing. The unit measures 191 mm high, 76 mm wide, and 144 mm deep, corresponding to housing form factor A. Because the drive does not include an encoder feedback card, it estimates

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rotor position from the motor model. The terminal strip separates command, reference, and status connections to support orderly field wiring within the control cabinet.

Specifications

Analog Inputs:	1	**Control Type:**	BASIC (Open loop flux vector control)	**Depth:**	144 mm
Digital Inputs:	5	**Enclosure:**	IP20	**Encoder Feedback Card:**	None
Height:	191 mm	**Housing Form Factor Code:**	A	**I/o Scan Time:**	2 ms
Input Phase:	1-Phase	**Input Voltage:**	230 V AC/DC	**Installed Accessories:**	Braking transistor and EMI filter
Max Current:	8.6 A	**Max Short-time Current:**	180%	**Oc Tripping Current:**	216%
Product Series:	Combivert F5	**Rated Current:**	4 A	**Rated Power:**	0.75 kW
Rated Switching Freq:	8 kHz	**Relay Outputs:**	2	**Width:**	76 mm
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