KEB — F5 Combivert Axis Drives

07.F5.B1B-3B0A



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The **07.F5.B1B-3B0A** axis drive is manufactured by KEB for the F5 Combivert Axis Drives series. As a modular inverter, it governs asynchronous or synchronous motors inside automated machinery by converting fixed input power into the variable frequency and voltage needed for motion tasks such as indexing conveyors or positioning gantries. The unit is designed for cabinet-mounted systems that require compact, heat-sink-cooled electronics.

The drive accepts a **three-phase 400 VAC/DC** supply, so it can be connected directly to compatible factory power systems without an isolation transformer. At the input, it draws up to **3.6 A**, a value used to determine fuse sizing and cable cross section on the line side. Internally, the inverter scales this energy to operate motors rated for **0.75 kW**; this power rating indicates the largest connected load that it can start and regulate continuously. The output bridge can deliver a continuous phase current of **2.6 A**, supporting torque production across the motor speed range. Its apparent power capacity reaches **1.8 kVA**, reflecting the combined voltage and current that the drive can sustain in vector control mode.

Switching events in the IGBT stage occur at **16 kHz**, which helps reduce motor noise while requiring reliable thermal conduction through the aluminum heat sink. The enclosure has an **IP20** rating, providing protection against finger contact but requiring installation inside a suitable control cabinet. The drive operates with a heat sink temperature of up to **90 °C** and derates beyond this point to protect its power components. An integrated braking transistor channels up to 7.5 A into an external resistor with a minimum resistance of 120 ?, allowing fast deceleration during cycle changes. Basic open-loop flux vector control regulates torque without encoder feedback, and the fanless heat

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sink fits the compact B housing while keeping the unit's mass at **2 kg**. Motor leads up to 5 m long can use 1.5 mm² cable without exceeding voltage-drop limits.

Specifications

Braking Transistor:	Integrated	**Control Type:**	BASIC (Open loop flux vector control)	**Cooling Type:**	Heat Sink
Housing Form Factor Code:	B	**Input Rated Current:**	3.6 A	**Input Supply:**	3-Phase 400 VAC/DC
Installed Accessories:	Braking transistor	**Max Braking Current:**	7.5 A	**Max Cable At 16 Khz:**	5 m
Max Heat Sink Temp:	90 °C	**Max Main Fuse:**	16 A	**Min Braking Resistor:**	120 ?
Motor Cable Size:	1.5 mm²	**Product Series:**	Combivert F5	**Protection Class:**	IP20
Rated Motor Power:	0.75 kW	**Rated Output Current:**	2.6 A	**Rated Output Power:**	1.8 kVA
Rated Switching Freq:	16 kHz	**Weight:**	2 kg	**Last Verified:**	11/05/2026 9:18 PM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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