KEB — F5 Combivert Axis Drives

09.F5.B1B-3A0A



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The **09.F5.B1B-3A0A** is an axis drive module manufactured by KEB within the F5 Combivert Axis Drives series. Installed between the mains supply and a three-phase induction motor, the unit modulates voltage and frequency so automated machinery can vary speed and torque without mechanical gear changes. Its BASIC open-loop flux vector control algorithm provides regulation for conveyors, packaging stations, and motion tasks while keeping setup simple.

During continuous operation, the drive accepts a three-phase supply at **400 V**, converting that input into an apparent power of **2.8 kVA** at the motor terminals. The internal power section provides a motor output of **1.5 kW**, making it suitable for small process motors used in fans, pumps, or indexing axes. Current capability reaches **4.1 A** under rated conditions, establishing the thermal limit of the output stage and requiring a minimum motor lead size of 1.5 mm². The switching devices operate at a nominal **8 kHz**, balancing acoustic noise and semiconductor losses. The resulting 80 W of heat is removed through the rear heat sink, while the standby electronics draw only 17 W when the axis is idle.

For transient demands such as rapid acceleration, the inverter can raise its switching frequency to **16 kHz** and supply a short-term current of **7.4 A**, providing additional torque without saturating the flux vector control. Integrated protection includes an internal braking transistor that routes surplus DC energy to an external resistor with a resistance of at least 120 ?. The heat sink temperature must remain below 90 °C to protect internal components. The drive has an **IP20** enclosure that measures **90 × 220 × 160 mm** and uses Form Factor B,

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allowing installation in compact control panels. Its total DC supply loss is 75 W, and the open-loop controller maintains stable regulation when an imbalance occurs across the three mains phases.

Specifications

Control Type:	BASIC (Open loop flux vector control)	**Dc Supply Loss:**	75 W	**Dimensions (w×h×d):**	90 × 220 × 160 mm
Enclosure:	IP20	**Housing Form Factor Code:**	B	**Installed Accessories:**	Braking transistor
Mains Phases:	3	**Max Heat Sink Temp:**	90 °C	**Max Short-time Current:**	7.4 A
Max Switching Freq:	16 kHz	**Min Braking Resistor:**	120 ?	**Motor Cable Cross-section:**	1.5 mm²
Power Dissipation:	80 W	**Product Series:**	Combivert F5	**Rated Apparent Power:**	2.8 kVA
Rated Input Voltage:	400 V	**Rated Motor Power:**	1.5 kW	**Rated Output Current:**	4.1 A
Rated Switching Freq:	8 kHz	**Standby Loss:**	17.00 W	**Last Verified:**	11/05/2026 8:08 AM

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