KEB — F4 Combivert Frequency Inverters

# 09.F4.C1D-3420




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The **09.F4.C1D-3420** is a frequency inverter produced by KEB within the F4 Combivert Frequency Inverters series. As a COMBIVERT F4 unit, it converts fixed-frequency three-phase mains power into a variable output that lets automation controllers adjust induction motor speed and torque. The compact D-size housing integrates a braking transistor so excess regenerative energy can be dissipated through a suitable braking circuit. By providing standard fieldbus connectivity, the drive can operate in distributed control systems used on conveyors, pumps, and positioning axes in industrial environments where space and simple wiring are priorities.

The inverter carries a protection rating of **IP20**, so it must be mounted inside a control panel enclosure but remains accessible for service. It accepts a mains voltage range of **305 to 500 V** in the 400 V class and supplies the motor with a nominal output current of **4.1 A**. The internal power stage operates at a switching frequency of **4 kHz**, which affects motor noise and the thermal load on the IGBTs. With a maximum rated motor power of **1.5 kW**, the unit is suitable for small to midsize drives that require precise speed regulation without an oversized cabinet power supply. The compact control mode manages voltage-to-frequency profiles during open-loop operation, and the housing has a low overall depth for dense cabinet layouts.

During dynamic events such as acceleration or regeneration, the drive can deliver a short-term current of **7.4 A**, allowing brief overloads without immediately tripping protective circuits. The nominal input current drawn from the line is **4.5 A**, which assists with cable and circuit breaker selection. The unit operates within an ambient temperature range of **-10 to 45 °C** and tolerates up to 95% relative humidity without condensation under climatic

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category 3K3. Its total mass is **2 kg**, so it adds minimal weight to swing-out panels or other supported cabinet mounting assemblies.

## Specifications

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|---|---|---|---|---|---|
| **Accessory:** | Braking Transistor | **Climatic Category:** | 3K3 | **Control Mode:** | Compact |
| **Control Type:** | Compact | **Fieldbus Option:** | Standard | **Housing Style:** | Compact D-size |
| **Housing Type:** | D | **Input Phases:** | 3-Phase | **Integrated Accessories:** | Braking transistor |
| **Mains Connection:** | 3-phase | **Mains Voltage range:** | 305...500 V +/-0 | **Max Rated Motor Power:** | 1.5 kW |
| **Max Relative Humidity:** | 95 % | **Max Short-time Current:** | 7.4 A | **Max. rated motor power:** | 1.5 kW |
| **Nominal Input Current:** | 4.5 A | **Oc Tripping Current:** | 9 A | **Operating Temperature:** | -10 to 45°C |
| **Output Nominal Current:** | 4.1 A | **Output Nominal Power:** | 2.8 kVA | **Product Type:** | COMBIVERT F4 |
| **Protection Rating:** | IP20 | **Rated Operating Frequency:** | 4 kHz | **Relative humidity (without condensation):** | 95% |
| **Switching Frequency:** | 4 kHz | **Voltage Class:** | 400 V-Class | **Weight:** | 2 kg |
| **Last Verified:** | 11/05/2026 6:16 PM | | | | |

## Contact Us


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