KEB — F4 Combivert Frequency Inverters

07.F4.S2C-M220



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The **07.F4.S2C-M220** is a frequency inverter produced by KEB within the F4 Combivert Frequency Inverters series. It regulates the speed of single-phase, 230 V-class induction motors by converting fixed mains power into variable-frequency output power. This capability allows conveyors, pumps, and small process machines to match changing load demands while reducing unnecessary energy consumption. The standard V/f control mode provides straightforward motor regulation, while basic fieldbus support accommodates start, stop, and speed-reference commands from an external controller.

This model delivers a continuous motor output of **0.75 kW**, while the inverter is rated for **1.6 kVA** at its terminals. The steady-state current reaches **4 A**, and the drive can supply up to **8.0 A** during short acceleration periods. A switching stage that operates at up to **8 kHz** controls waveform quality and motor noise. Input power is supplied through a single-phase connection protected by a 20 A mains fuse. A cable cross section of 2.5 mm² is recommended for both the line and motor connections. An integrated filter attenuates conducted emissions, and the rated motor-side operating frequency is 4 kHz.

The inverter accepts a supply voltage of **180 to 260 V** at 50 or 60 Hz, supporting stable operation on lightly regulated utility power. The housing has an **IP20 protection rating**, so the unit must be installed inside a suitable control cabinet that prevents exposure to water and small foreign objects. Reliable operation is permitted at ambient temperatures from **-10 to 45 °C**, although forced ventilation may be necessary near the upper limit. The permitted relative humidity reaches **95% without condensation**, allowing installation in humid production areas

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while conformal coatings protect the electronics. The maximum motor cable length should follow standard electromagnetic compatibility practices to preserve the effectiveness of the integrated filter and limit interference in nearby control wiring.

Specifications

Cable Cross-section:	2.5 mm²	**Control Mode:**	Standard	**Fieldbus Option:**	Standard
Input Phase:	1	**Integrated Accessories:**	Filter	**Mains Frequency:**	50/60 Hz
Mains Fuse:	20 A	**Mains Voltage range:**	180...260 V +/-0	**Max Humidity:**	95%
Max Switching Freq:	8 kHz	**Max. rated motor power:**	0.75 kW	**Motor Power:**	0.75 kW
Nominal Power:	1.6 kVA	**Operating temperature:**	-10 to 45°C	**Output Current:**	4 A
Output nominal current:	4 A	**Output nominal power:**	1.6 kVA	**Peak Current:**	8.0 A
Product Type:	COMBIVERT F4	**Protection Rating:**	IP20	**Rated Operating Frequency:**	4 kHz
Relative humidity (without condensation):	95%	**Voltage Class:**	230 V-Class	**Last Verified:**	11/05/2026 8:06 PM

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