KEB — F4 Combivert Frequency Inverters

07.F4.S2C-1220



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The **07.F4.S2C-1220** frequency inverter is produced by KEB within the F4 Combivert Frequency Inverters series. As a COMBIVERT F4 unit, it converts single-phase mains power into a variable AC output for induction or synchronous machines rated up to 0.75 kW. This conversion provides speed control and soft-start functions for conveyors, fans, pumps, and other motor-driven equipment.

The mains connection accepts 180 to 260 V within the **230 V AC** voltage class, and the device draws a nominal input current of **8 A**. Internally, it chops the DC link at a rated switching frequency of **4 kHz**, delivering an output current of 4 A and up to **1.6 kVA** to the motor terminals. The enclosure carries an **IP20** protection rating, so it must be mounted in a clean control cabinet that prevents contact with live parts. A built-in filter limits conducted interference, while the standard control mode and standard fieldbus option provide basic keypad, analog, and relay interfaces. Cable lugs for conductor cross sections up to 2.5 mm² fit the supply terminal block. These terminals accommodate the supply wiring required for machines within the inverter's designated power class.

The heat sink temperature must not exceed **85 °C**, and operation is permitted at ambient temperatures from -10 °C to 45 °C. Relative humidity is limited to **95%** without condensation. The overcurrent channels trip at 8.8 A, while brief overloads are permitted up to the 7.2 A short-time rating. Sustained braking energy is managed through an external resistor with a minimum resistance of **56 ?**. A 100 ? resistor is recommended for typical duty and reduces dissipation in low-inertia loads, while the brake circuit can handle a maximum current of **7 A**. Upstream circuit protection requires a 20 A mains fuse, and the internal electronics trip if the overcurrent threshold is exceeded.

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Specifications

Control Mode:	Standard	**Fieldbus Option:**	Standard	**Input Phases:**	1
Integrated Accessories:	Filter	**Line Cross Section:**	2.5 mm²	**Mains Connection:**	1-phase
Mains Voltage range:	180...260 V +/- 0	**Max Braking Current:**	7 A	**Max Heat Sink Temp:**	85 °C
Max Mains Fuse:	20 A	**Max Motor Power:**	0.75 kW	**Max Short-time Current:**	7.2 A
Max. rated motor power:	0.75 kW	**Min Braking Resistor:**	56 ?	**Nominal Input Current:**	8 A
Oc-tripping Current:	8.8 A	**Operating temperature:**	-10 to 45°C	**Output Nominal Current:**	4 A
Output Nominal Power:	1.6 kVA	**Product Type:**	COMBIVERT F4	**Protection Rating:**	IP20
Rated Operating Frequency:	4 kHz	**Rated Switching Freq:**	4 kHz	**Relative humidity (without condensation):**	95%
Supply Voltage Class:	230 V AC	**Typ Braking Resistor:**	100 ?	**Voltage Class:**	230 V-Class
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Contact Us

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