KEB — F0 Combivert Control Cabinets

09.F0.V50-G901



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The **09.F0.V50-G901** is a control-cabinet assembly manufactured by KEB within the F0 Combivert Control Cabinets series. The assembly encloses drive electronics that modulate induction-motor speed in industrial automation systems. It also provides an interface point for variable-frequency power supplied to production machinery and conveying systems. By keeping the drive components together in one cabinet, the unit supports centralized power conversion and signal connections for the controlled motor.

The unit carries an **IP20** protection rating, so it must be installed inside a larger panel but remains protected against accidental finger contact. Proper airflow requires a front clearance of 50 mm and a side clearance of 50 mm. An internal control-circuit fuse rated at **0.4 A** protects the low-voltage logic against short circuits. The inverter section can generate an output frequency of up to **408 Hz**, allowing connected motors to operate above their base speed when required. Reference commands enter through high-impedance analog channels, with the voltage input presenting **56 k?** and the current input presenting 500 ?. Auxiliary channels provide 4.4 k? and 250 ? paths for secondary setpoints. Continuous operation is supported at installation altitudes up to **3000 m** without derating, allowing use at elevated industrial sites.

The operating temperature ranges from a maximum of **45 °C** to a minimum of **-10 °C**, enabling year-round service in unconditioned factory buildings. During shutdown, storage, or transport, the cabinet tolerates temperatures from -25 °C to 70 °C. Relative humidity may reach **95 %** without condensation, which helps prevent moisture from collecting on internal electrical components. Heat rises through the housing, so a top and bottom clearance of

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100 mm must be maintained to keep the exhaust paths unrestricted. Adequate vertical spacing prevents warm exhaust air from being drawn back through the cabinet and supports consistent cooling during operation.

Specifications

Control Circuit Fuse:	0.4 A	**Front Clearance:**	50 mm	**Max Installation Altitude:**	3000 m
Max Operating Temp:	45 °C	**Max Output Frequency:**	408 Hz	**Max Relative Humidity:**	95 %
Max Storage Temp:	70 °C	**Min Operating Temp:**	-10 °C	**Min Storage Temp:**	-25 °C
Protection Rating:	IP20	**Ref Current Input Ri:**	500 ?	**Ref Voltage Input Ri:**	56 k?
Ref2 Current Input Ri:	250 ?	**Ref2 Voltage Input Ri:**	4.4 k?	**Side Clearance:**	50 mm
Top/bottom Clearance:	100 mm	**Last Verified:**	10/23/2026 1:15 AM		

Contact Us

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