


GF83.40-P-2118-01GH	Engine/air conditioning electric fan, function		 GF
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### Function

Depending on the refrigerant pressure and/or the coolant temperature the fan speed is increased infinitely.

**Engines 113.942 and 113.981 and other models with single fan**

The all-activity module (AAM) (N10) receives the coolant temperature via the coolant temperature sensor and the **refrigerant pressure via the refrigerant pressure sensor (B12).**

This input information is relayed by the all-activity module (AAM) (N10) to the integrated control module of the engine and AC electric suction fan with integrated control (M4/7)

There the input information is compared with the stored values and, **if necessary, the speed of the engine and AC electric suction fan with integrated control (M4/7) is increased to 100 %.**

The engine and AC electric suction fan with integrated control (M4/7) operates with AC switched on and in the reheat mode for basic ventilation with a capacity of up to 20 %.

The basic ventilation can be switched off under the following conditions:

- At an outdoor temperature of  $\leq 15$  °C the value of the outdoor temperature is transmitted from the outside temperature sensor (B10/5) to the AC control module (N19). The pressure-dependent fan speed remains the same.
- At a vehicle speed of > 75 km/h

The vehicle speed value comes from the traction system control module via the instrument cluster (A1) and CDI control module (N3/9), to the control module integrated in the electric suction fan engine and AC with integrated control (M4/7). The pressure-dependent fan speed remains the same. An overrun time of 60 s can be set in order to ensure that the engine and AC electric suction fan with integrated control (M4/7) will continue to operate even where the refrigerant compressor is temporarily switched off by the icing protection.

The engine and AC electric suction fan with integrated control (M4/7) has a power rating of 550W.