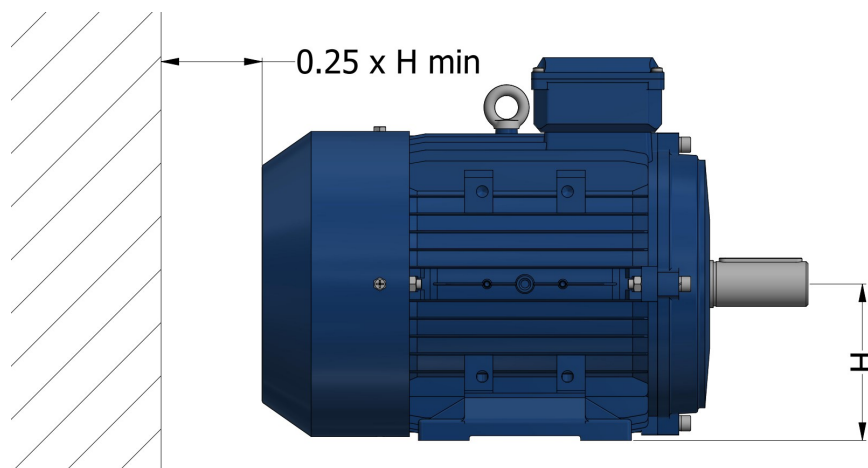


How do much clearance do I need for a motor?

Last updated 1 year ago

AmTecs motors are cooled in accordance with method IC 411 (standard IEC 60034-6). These standards states “machine cooled by the surface, using the ambient air flowing along the motor”. The fan is located at the non-drive end and cools the motor. Air is sucked in through the grille of the fan cover and blown along the motor housing fins to ensure thermal equilibrium of the motor whatever the direction of rotation. The fan cover provides protection against the risk of direct contact with the fan blades in accordance with standard IEC 60034-5.



Motors must be installed in an adequately ventilated area, with clearance for the air intake and outlet of at least one quarter of the frame size. Blocking the fan cover grille and the housing fins, even accidentally (clogging), is likely to adversely affect the operation and safety of the motor. In the case of vertical operation with the shaft extension facing down, it is advisable to fit the motor with a drip cover to prevent the entry of any foreign bodies. It is necessary to check that the hot air is not being recycled. If hot air is being recycled air flows must be provided for the intake of cold air and discharge of hot air, to prevent abnormal temperature rise in the motor. In this case, if the air is not circulated by an auxiliary fan, the dimensions of the air flows must be such that the load losses are negligible compared to those of the motor.

Positioning The motor must be mounted in the position specified on the order, on a base which is rigid enough to prevent distortion and vibration. Where the motor feet have six fixing holes, it is preferable to use those which correspond to the standard dimensions for the motor power.