

CLAIMS:

1. A motor drive system comprising:
 - a power subassembly including power electronic switches controllable to provide controlled frequency AC power to an electric motor, and driver circuitry configured to apply gate drive signals to the power electronic switches; and
 - a control subassembly separable from the power subassembly but physically configured to be attached to the power subassembly and to make electrical connections with the power subassembly when attached, the control subassembly including control circuitry configured that, in operation, applies control signals to the drive circuitry for controlling the power electronic switches, the control subassembly being configured to be coupled to a configuration station and comprising an interface that identifies the ~~motor drive system~~control subassembly to the configuration station in conformance with a USB mass storage device class.
2. The system of claim 1, wherein the control subassembly comprises at least one motor control routine operating on parameters for control of the electric motor.
3. The system of claim 2, wherein the control subassembly is configured to receive the parameters for control of the electric motor by transfer of a file from the configuration station.
4. The system of claim 3, wherein the file transfer may be performed by a drag-and-drop operation on the configuration station.
5. The system of any one of the preceding claims, wherein the control subassembly is configured via the configuration station by removal of the control subassembly from the power subassembly.

6. The system of any one of the preceding claims, wherein the control subsection comprises a USB port for connection to the configuration station.

7. The system of claim 6, wherein the USB port is located on a side of the control subsection facing the power subsection when the control subsection is attached to the power subsection.

8. The system of claim 6, wherein the USB port is inaccessible when the control subsection is attached to the power subsection.

9. The system of any one of claims 1 to 5, wherein the control subsection is configured to be accessed by the configuration station via a network link.

10. A motor drive system comprising:
a control subassembly separable from a power subassembly but physically configured to be attached to a power subassembly and to make electrical connections with the power subassembly when attached, the control subassembly including control circuitry configured that, in operation, applies control signals to drive circuitry of the power subassembly for controlling an electric motor, the control subassembly comprising at least one motor control routine operating on parameters for control of the electric motor and being configured to be coupled to a configuration station for transfer of a configuration file comprising the parameters from the configuration station via a drag-and-drop file transfer, wherein the control subassembly is configured to be recognized as a USB mass storage class device when connected to the configuration station.

11. The system of claim 10, wherein the control subassembly is configured to be physically coupled to the configuration station via a wired connection.