

0,75 KW TO 1,65 MW

Customizable frequency inverter for cranes

ADV200 HC by GEFran (Italy) is a field-oriented vector inverter for hoist and crane applications. Connection to a CANopen or a Devicenet network is possible using an interface card.



ADV200 HC integrates a PLC programmable according to IEC 61131-3 (Source: GEFran)

The device controls hoisting and traveling movements. Hoisting-related functions include a hoist speed-up, anti-sway function, an over-travel function, a master-follower function, multi-speed function (16 programmable speeds), as well as four independent programmable multi-ramps.

The inverter is available for power ranges from 0,75 kW to 1,65 MW. Power supply options include 3 x 380 V_{AC} to 480 V_{AC}, 3 x 690 V_{AC}, 450 V_{DC} to 750 V_{DC}, as well as 600 V_{DC} to 1120 V_{DC}. Maximal output frequency is 500 Hz. An EMC filter and a DC-choke (variants up to 132 kW) are integrated. The drive is suited for asynchronous motors with or without encoder. Expansion cards for the management of auxiliary encoders are offered. The device features rotational and stand-still regulators of speed-current-flow, motor data identification, torque control, braking management, double-motor parameters setting, joystick management, and a memory keypad. A thermal protection for motor, drive, and braking resistor is included as well.

Optional I/O expansion cards are configurable according to the customer's machine requirements. Serial bus interface cards for CANopen, Devicenet, Ethercat, etc. can be used as an option to connect the device to the appropriate network. The Safety STO (safe torque off) function is optionally supported. Up to four options can be combined on-board. The IP20-protected device offers two analog inputs, two analog outputs, six digital inputs, and two digital outputs, as well as an EIA-485 interface supporting the Modbus RTU protocol. The drive also integrates a PLC (programmable logic controller) with a programming environment according to IEC 61131-3.

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