

Regenerative Power Supply & PFC - ARPS P_{nom}=90kW

Customer:

MOOG Electric, Casella, IT

Product description:

ARPS is a large power, compact size, DSP controlled DC/AC power converter with CAN-communication, designed to receive the power from a 500V DC-bus and convert this power back to the 3-phase mains. Having a rated power of 90 kW at 3x460V, regenerative power supply ARPS is designed to be attached to the common DC-bus of a multiaxis/multimotor drive systems encountered in robotics & general automation, and to recuperate back to the mains the power generated in the braking phases of the robot/machine. The ARPS regenerating power typical application: Plastics- injection molding machines, where the stamps and moulds weighing over a ton, they have to be moved swiftly, and where large amounts of braking power is generated; processes where carbon powder and textile dust prevent the use of braking resistors due to the risk of fire. Customers: Michelin, Imeca.



involvement:

Concept, hardware design, safety and EMC norms, DSP-control software design and communication software design, pre-series production and customer support.