DC/AC-converter NEDA030-V

NEDA030-V is a motor drive for running induction motors from a DC network for the control of motor outputs up to 8 kW at 50 Hz.

The input voltage is allowed to vary over a broad range to enable a battery to be the feeding source. Important considerations in the design and development of this unit has been reliability and performance. The design is made according to military specifications.

The main features are:

- Possibility to operate a standard three-phase asynchronous motor from DC-mains. It is possible to choose different rated motor voltage e.g. 115V or 230V, 50/60Hz.
- Possibility to control the speed of the motor across the full range.
- Noise problems can be minimized by avoiding certain speeds.
- Built-in soft start, no high start current.
- Built-in overload protection.
- Adjustable acceleration and deceleration time.
- Short circuit protection.
- Controls:
  - Local by user friendly touch display.
  - Remote by Modbus or hardware signals, 0(2)-10V or 0(4)-20mA and digital.
- HF tight cabinet with minimum IP54 protection.
- Combined air/water cooler for maximum flexibility.

*Difference may occur depending on requirements.

General Technical Data

DC supply	280-700V*
Motor Power (50/60Hz)	<8 kW
I_n RMS	30 A
$I_{60\ sec}$ RMS	36 A
$T_{ambient}$	0-45°C At rated duty
Degree of protection	IP54
Shock resistance	Half Sine Shock Pulse15g 20 ms
Vibration	MIL-STD-167-1A
EMC	Corresponding to MIL-STD-461
Dimensions excl. fittings (HxWxD)	404x313x208 mm
Weight	28 kg

*This is the standard voltage range. Other voltage ranges can be supplied upon request, however lowest voltage is 160 V DC and highest voltage is 835 V DC.

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