DC/AC Converter NEDA146-V

NEDA146-V is a motor drive for running induction motors from a DC network for the control of motor outputs up to 45 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 specificaions.

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.
- 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.
- Available in Air Cooled version, Water Cooled version or a combined Air and Water Cooled version.

General Technical Data

DC supply	180-700V
Motor Power (50/60Hz)	<45 kW
I_n RMS	146 A
$I_{60\ sec}$ RMS	175 A
$T_{ambient}$	0-45°C
Degree of protection	IP54
Shock resistance	15g 20 ms
EMC	Corresponding to MilStd461
Dimensions excl. fittings (HxWxD)	1360x600x382 mm
Weight	227 kg

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Head office & mailing address:
Norra Strandgatan 4
S-252 20 Helsingborg Sweden

E-mail: mail@nojdhselektronik.se
Phone: +46 42 38 16 00

nojdhselektronik.se

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