



SOFTWARE

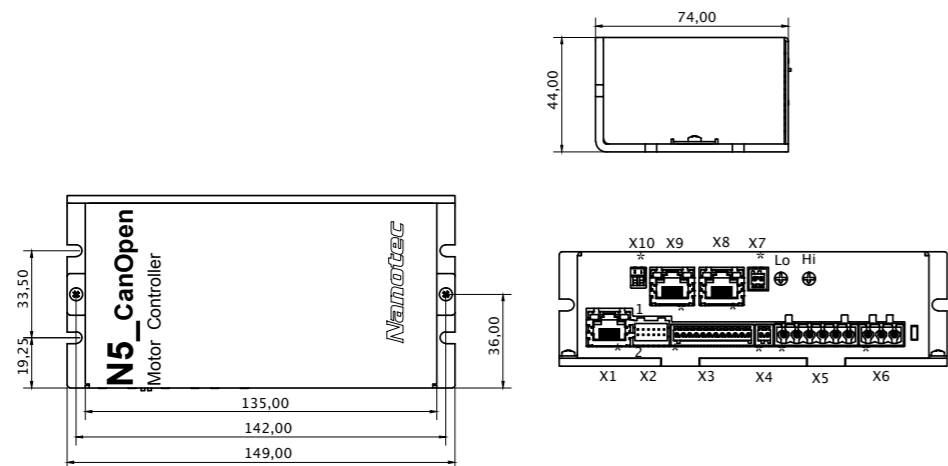


TECHNICAL DATA

Operating voltage	12-72 VDC (low current version) or 12-48 VDC (high current version)
Rated current (RMS)	10 A (low current version), or 18 A (high current version)
Peak current (RMS)	10 A (low current version), or 40 A (high current version)
Commuting	Open loop stepper motor, closed loop stepper motor with encoder, BLDC with sinusoidal commutation via hall sensor, BLDC with sinusoidal commutation via encoder
Operating mode	Profile position mode, velocity mode, homing mode, cyclic sync position mode, cyclic sync velocity mode, cyclic sync torque mode, clock/direction mode, application program (NanoJ)
Parameterization	Browser-based via Ethernet with the NanoIP interface (EtherCAT and CANopen) or via PND-Studio (EtherNet/IP)
Field bus interfaces	CANopen, EtherCAT, EtherNet/IP, Modbus TCP or Modbus RTU
Encoder inputs	5 V or 24 V signal, differential or single-ended, max. resolution 65536 CPR (16 bit), UVW connection for hall sensor
Inputs	4 inputs 5 V/24 V, switchable in software (inputs 1 to 4); 2 inputs wide range 5-24 V (inputs 5 and 6); 2 analog inputs -10 to +10 V or 0-20 mA (switchable in software)
Outputs	2 transistor outputs (open drain, 0 switching, max. 24 V/0.5 A)
Brake	1 open drain output, max. 1.5 A
Protective circuit	Overvoltage and undervoltage, overtemperature: protective circuit at temperature >70°C, polarity reversal protection: in case of polarity reversal, short circuit between supply voltage and GND via PIN diode, therefore cable protection device (fuse) required in supply cable.

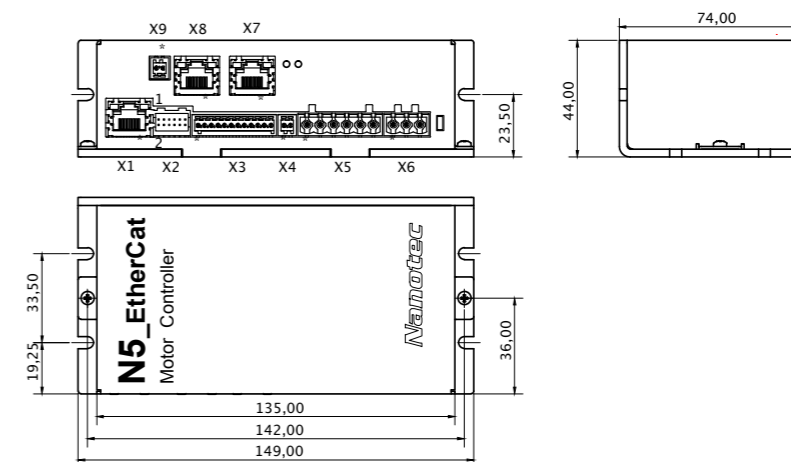
DIMENSIONS (IN MM)

N5 CanOpen

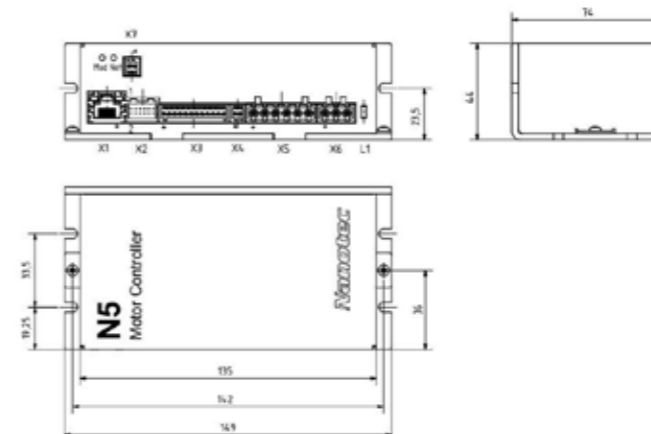


DIMENSIONS (IN MM)

N5 EtherCAT



N5 EthernetIP



VERSIONS

Type	Min. Operating Voltage V	Max. Operating Voltage V	Rated Current (RMS) A	Suitable for	Interface	Weight kg
N5-1	12	72	10	Stepper Motors, BLDC Motors	EtherCAT, CANopen	0.2
N5-2	12	48	18	Stepper Motors, BLDC Motors	EtherCAT, CANopen	0.2

ORDER IDENTIFIER

- N5-1-**
 1 = EtherCAT
 2 = CANopen
 3 = EtherNet/IP
 4 = Modbus TCP
 5 = Modbus RTU

ACCESSORIES

- ZK-M12-8-2M-2-PADP** M12 Cable
- ZK-M12-12-2M-2-PADP** M12 Cable
- ZK-NOE-10-500-S-PADP** Encoder Cable
- ZK-PADP-12-500-S** Encoder Cable
- ZCPHOFK-MC0,5-2** SMCI33 Power Supply / SMCI47 Brake
- ZCPHOFK-MC0,5-12** Connector for I/O
- ZCWE-RM5-3** Plug Connectors
- ZCWE-RM5-6** Plug Connectors

CAUTION

We recommend using a back-up capacitor of sufficient size to stabilize the operating voltage.