

Nanotec Motor Controllers/Drives

- For brushless DC and stepper motors
- Closed-loop (FOC) control with encoder, sensorless or hall feedback
- Precise position, velocity and torque control
- Quick to parameterize and easy to program with NanoJ V2
- Controlled by fieldbus, step & direction and analog I/O
- No step losses

| | N5 | C5-E | | |
|--------------------|--|--|--|--|
| Operating voltage | 12 - 72 V (low current) 12 - 48 V (high current) | 12-48 V | | |
| Continuous current | 10 A (low current) 18 A (high current) | 6 A (low current) 10 A (high current) | | |
| Peak current | 10 A (low current) 40 A (high current) | 6 A (low current) 30 A (high current) | | |
| Encoder input | yes | yes | | |
| Brake output | yes | yes | | |
| Inputs/outputs | 6 digital inputs 2 analog inputs 2 digital outputs | 5 digital inputs 2 analog inputs 3 digital outputs | | |
| | CL3-E | CL4-E | NP5 | |
| Operating voltage | 12 - 24 V | 12 - 48 V | 12 - 48 V | |
| Continuous current | 3 A | 3 A (low current) 6 A (high current) | 6 A | |
| Peak current | 3 A (low current) 6 A (high current) | 6 A (low current) 18 A (high current) | 10 A | |
| Encoder input | yes | yes | yes | |
| Inputs/outputs | 5 digital inputs 2 analog inputs 3 digital outputs | 1 encoder input 4 digital inputs 1 analog input 2 digital outputs | 2 encoder inputs 7 general I/O 2 A/D converter 1 brake output | |

Contact

□

Nanotec Electronic GmbH & Co. KG

Kapellenstr. 6
DE-85622 Feldkirchen

Email: info@nanotec.de
Phone: +49-89-900686-0
Fax: +49-89-900686-50
Web: <http://www.nanotec.com>

Features

| | |
|----------------------|-------------------------------------|
| NMT | NMT slave |
| Error control | Node guarding Heartbeat producer |
| Boot-up | Yes |
| Node ID range | |

| | |
|------------------------------------|--|
| | From 1 to 127 |
| Node ID | Hardware switch Software switch |
| CANopen bit-rates | 20 kbit/s 50 kbit/s 125 kbit/s 250 kbit/s 500 kbit/s 1 000 kbit/s |
| Type of bit-rate adjustment | Software switch |
| RPDOs | 8 |
| TPDOs | 8 |
| PDO modes | Event-triggered Triggered by event-timer Remotely-requested Synchronous (cyclic) Synchronous (acyclic) |
| PDO linking | Possible with 4 of 8 PDOs |
| PDO mapping | Variable |
| SDO server | 1 |
| SDO client | No |
| Emergency producer | Yes |
| Emergency consumer | No |
| Sync producer | No |
| Sync counter | No |
| Time stamp | No |
| Additional functions | None |
| CANopen version | CiA 301 V 4.2 |
| Frameworks | None |
| Device profiles | CiA 402: CANopen drives and motion control device profile |
| Certified | No |
| Availability | In stock |