

Nanotec Smart Brushless DC Servos

Nanotec offers motors with integrated controller/drive in three different sizes from NEMA 17 to NEMA 34. Both the brushless DC motors and the stepper motors feature field-oriented control (FOC) by means of a magnetic, 12-Bit single-turn absolute encoder or an 18-Bit multi-turn encoder (optional).

Features:

- Precise position, velocity and torque control
- Controlled by fieldbus, step & direction and analog I/O
- Fully programmable
- USB or CANopen and CiA 402
- Digital and analog inputs, digital outputs

Stepper Motors	PD2-C	PD4-C	PD4-E	PD6-C
Flange size	42 mm NEMA 17	56/60 mm NEMA 23/24	56/60 mm NEMA 23/24	86 mm NEMA 34
Operating voltage	12 - 48 V	12 - 24 V	12 - 48 V	12 - 48 V
Holding torque	up to 0,5 Nm	1 - 3,5 Nm	1 - 3,5 Nm	up to 8,8 Nm

Brushless DC Motors	PD2-CB	PD4-CB	PD4-EB	PD6-CB
Flange size	42 m NEMA 17	56 mm NEMA 23/24	56 mm NEMA 23/24	86/80 mm NEMA 34
Operating voltage	12 - 48 V	12 - 24 V	12 - 48 V	12 - 48 kV
Rated power	105 W	135 W	up to 220 W	220 W/534 W
Rated torque	0,25 Nm	0,37 Nm	0,6 Nm	0,7 Nm
Rated speed	4 000 rpm	3 500 rpm	3 500 rpm	3 000 rpm

Contact

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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