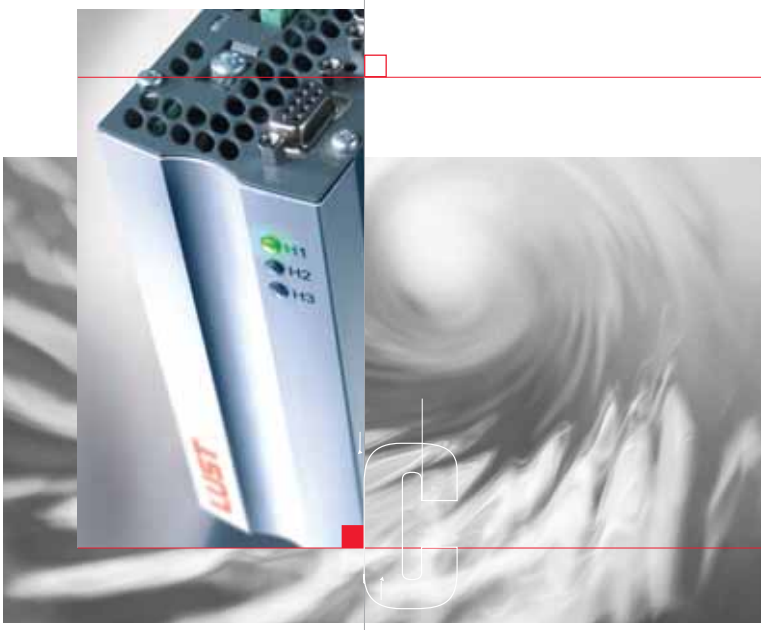
motor technology
control in motion.com

A new member
joins the c-line family
CDF3000



c-line _ positioning system

LUST LTi

CDF3000 _ the little one with the genes of its big brother

Photo: Siemens

Photo: Siemens

Admittedly, the idea of implementing a cost-optimised servo system based on 24 V or 48 V DC supply is not exactly new, but just take a look at the functionality the new little member of our family has inherited from its big brothers, the CDE and CDB, and you will realise that we have completely re-interpreted the whole concept.

Top-class positioning functionality, a robust mechanism design concept, consistent CANopen DSP402 integration, safe standstill in accordance with IEC 954-1 category 3, ...
As you see, we have provided the CDF3000 with all the features needed to make the 24 V or 48 V DC supply concept fit for use in the highly demanding automation environment.

We are convinced that our new little family member will redefine standards of cost-effectiveness and performance in the servo class below 2 Nm – to your benefit and to ours.

Supply voltage 24–48 V DC
for operation at safety extra-low voltage level

Safe standstill to category 3 EN 954-1
to save on external safety components

CANopen inside
with DSP402 Position, Interpolated Position, Velocity and Homing modes and scaling of units by Factor Group

Evaluation of two encoders
for precision positioning operations with backlash mechanism

Evaluation of multi-turn encoders
for positioning operations without referencing

Sequenced driving set positioning
with sequential job logic, graphically operated

PLCmotion
for process-oriented additional tasks and coordination of movement sequences

Cam-contactor group
for generation of position-dependent control signals to control connected machine peripherals

Online position profile generator
for real-time position profile generation with 250 µs fine interpolation

CDF3000

Synchronous motor,
Asynchronous motor
DC-motor

Metal housing

Resolver,
SSI-multi-turn encoder

CANopen DSP402

RS232

CDF3000

View of the bottom side

CAN address

Inputs:
2 analog, 3 digital,
1 Safe stopping,
ENPO

Power connection
24 V–48 V DC,
Connection
brake resistor

Outputs:
1 digital,
2 Drivers 0.5 A

1 Relais Safe stopping

CDF3000

LST-037

LSH-050

LSH-074

Position controller _ CDF3000

	CDF3000
Rated current [A] (24 V–48 V mains)	8
Motor power [W]	470
Peak current [A]	2.0 times rated current for 5 s
Cold Plate	x
Dimensions (W x H x D) in mm	55 x 160 x 120

The braking chopper electronics is integrated.

Synchronous servomotors _ LSH/LST

	LST-037	LSH-050	LSH-074
Standstill torque [Nm]	0.1-0.2	0.26-0.7	0.8
Rated torque [Nm]	0.09-0.18	0.25-0.67	0.75
Rated speed [min^{-1}]	6000-8000	3000	1500
Installation window [mm]	37	55	86
Design length [mm]	67-82	67-97	96
Moment of inertia [$kgcm^2$]	0.06-0.12	0.06–0.11	0.5

The new generation of motors impresses by its high power output combined with a compact design.

Information and specifications are subject to change at any time. For more information please visit us at www.lt-i.com.

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0920.2036-02 07/08

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