

Overview drive controllers

Servo and positioning controllers

Servo and direct drive controller

Positioning inverter

Frequency inverter

High speed drive controllers



Product range	CDE3000	CDF3000	CDD3000	CDB3000	CDA3000	CDA3000-HF	CDD3000-HF	CDS4000
Performance data								
Nominal power [kVA] (3 x 400/460 V AC)	1.6 - 118/136	-	1.6 - 118/136	1.6 - 118/136	1.6 - 173/199	1.6 - 50/58	1.6 - 22/26	11.8 - 22/26
Nominal power [kVA] (1 x 230/240 V AC)	1.0 - 2.9/3.0	-	1.0 - 2.9/3.0	1.0 - 2.9/3.0	1.7 - 2.9/3.0	1.0 - 2.9/3.0	1.0 - 2.9/3.0	-
Nominal power [kVA] (1 x 24/48 V DC)	-	0.24/0.48	-	-	-	-	-	-
Rated current I _N [A]	2.2 - 170	8	2.2 - 170	2.2 - 170	2.2 - 250	2.2 - 72	2.2 - 32	17 - 72
Overload factor up to 22 kVA	1.8 for 30 s	2.0 for 5 s	1.8 for 30 s	1.8 for 30 s	1.8 for 30 s	1.8 for 30 s	1.8 for 30 s	1.3 for 30 s
Overload factor from 22 kVA	2.0 for 3 s	-	1.5 for 60 s	1.5 for 60 s	1.5 for 60 s	1.5 for 60 s	-	1.3 for 30 s
Rotating field frequency [Hz]	0 - 400	0 - 400	0 - 400	0 - 400	0 - 400	0 - 1,700	0 - 1,600	0 - 4,000
Power stage switching frequency [kHz]	4, 8, 12, 16	8, 16	4, 8, 16	4, 8, 12, 16	4, 8, 16	4, 8, 12, 16	4, 8, 12, 16	32, 64
Brake chopper power electronics integrated	☑	☑	☑	☑	☑	☑	☑	☑
Braking resistor integr. (option. up to 22 kVA)	☑	-	☑	☑	☑	☑	☑	☑
Cooling method								
Convection cooling	☑	☑	☑	☑	☑	☑	☑	☑
Push-through cooling	☑	-	☑	☑	☑	☑	☑	-
Cold-plate cooling	☑	-	☑	☑	☑	☑	☑	-
Liquid cooling (from 31 kVA up to 50 kVA)	☑	-	-	☑	-	-	-	☑
Suitable for operation of								
IEC standard motor/asynchronous servo motor	☑	☑	☑	☑	☑	-	-	-
Synchronous servo motor	☑	☑	☑	-	-	-	-	-
Reluctance motor	-	-	-	-	☑	-	-	-
High speed motor synchronous/asynchronous	-	-	-	-	-	☑	☑	☑
Direct drives linear/rotative	-	-	☑	-	-	-	-	-
Control hardware								
Inputs/outputs analog	2 (10 bit)/0	2 (10 bit)/0	2 (10/12 bit)/0	2 (10 bit)/1	2 (10 bit)/1	2 (10 bit)/1	2 (10/12 bit)/0	2 (10/12 bit)/0
Outputs analog (optionally)	-	-	2	-	-	-	2	2
Inputs/outputs digital	7/3	3/3	5/2	4/2	4/2	4/2	5/2	5/2
Inputs/outputs digital (optionally)	8/4	-	8/4	8/4	8/4	8/4	8/4	8/4
Relay	1 normally open contact	1 normally open contact	1 normally open contact	1 change over contact	1 change over contact	1 change over contact	1 normally open contact	1 normally open contact
Safe standstill with feedback signal	☑	☑	-	optionally	-	-	-	-
Service interface	RS232	RS232	RS232	RS232	RS232	RS232	RS232	RS232
Brake driver of motor holding brake	☑	☑	☑	-	-	-	☑	☑
CANopen	☑	☑	optionally	☑	optionally	optionally	optionally	optionally
ProfiBus (optionally)	☑	-	☑	☑	☑	☑	☑	☑
Motor temperature monitoring	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon	PTC, linear PTC, Klixon
Encoder systems	TTL, SSI, resolver	TTL, SSI, resolver	TTL, resolver, Sin/Cos w. SSI, Sin/Cos w. Hiperface, Hall	HTL, TTL, SSI	HTL	HTL	resolver, Sin/Cos, Hall	resolver, Sin/Cos, Hall
Encoder simulation	-	-	☑	-	-	-	☑	☑
Voltage supply of analog inputs	-	-	-	0 - 10.5 V DC (10 mA)	0 - 10.5 V DC (5 mA)	0 - 10.5 V DC (5 mA)	-	-
Internal 24 V power supply	I _{max} = 100 mA	-	I _{max} = 100 mA	I _{max} = 100 [200 w/o encoder] mA	I _{max} = 200 mA	I _{max} = 200 mA	I _{max} = 100 mA	I _{max} = 500 mA
Electromagnetic compatilby (EMC) in acc. with EN61800-3, acceptances								
Line filter integrated C2 (10 m)/C3 (25 m)	up to 17 A; from 45 up to 72 A	-	up to 17 A	up to 7.5 kW; 22 - 37 kW	up to 7.5 kW	up to 7.5 kW	up to 17 A	☑
Line filter external C2 (100 m)/C3 (150)	☑	-	☑	☑	☑	☑	☑	-
Emission sealed housing	☑	☑	☑	☑	☑	☑	☑	☑
Acceptances	CE, cUL	CE, cUL	CE, cUL	CE, cUL	CE, cUL	CE, cUL	CE, cUL	CE, cUL
PC-Tools/operation								
DRIVEMANAGER	☑	☑	☑	☑	☑	☑	☑	☑
KEYPAD/Operator Panel	☑	☑	☑	☑	☑	☑	☑	☑
PLC	☑	☑	☑	☑	☑	☑	☑	☑