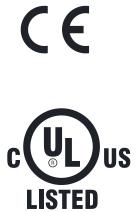
**Equipment**

- EtherCAT/Ethernet interface
- CANopen
- Profibus DP
- USB interface for parameterisation via PC
- RS485 with 2 capture inputs
- 2 encoder interfaces
- Encoder output for Master-Slave-operation, or
- STO function according to EN61800-5-2



Electrical Connection Data		2-phase Motors	3-phase Motors
→ 1-phase AC Supply			
Rated supply voltage	V _{AC}	230	230
Line frequency	Hz	50 .. 60	50 .. 60
Rated installed load	kVA	2.2	2.2
Rated power loss	W	70	70
Rated output voltage (AC)	V _{AC}	205	205
Rated output current	A _{RMS}	2.7	3.5
→ 3-phase AC Supply			
Rated supply voltage	V _{AC}	230	230
Line frequency	Hz	50 .. 60	50 .. 60
Rated installed load	kVA	3.5	3.5
Rated power loss	W	106	106
Rated output voltage	V _{AC}	205	205
Rated output current	A _{RMS}	5.3	7.1
→ DC Supply			
Rated supply voltage	V _{DC}	325	325
Rated installed load	W	3250	3250
Rated power loss	W	92	92
→ Data of Power Output Stage			
Peak output current	A _{RMS}	14	14
Max. phase current	A _{DC}	20	20
Rated output current	A _{RMS}	5.3	7.1
Max. DC link voltage	V _{DC}	360	360
Rated DC link voltage	V _{DC}	325	325
Overtoltage switch-off	V _{DC}	400	400
DC link capacity (AC/DC supply)	μF	660/330	660/330
Returnable energy (AC/DC supply)	Ws	13/6.5	13/6.5

Functions

- Operation of 2- and 3- phase brushless synchronous motors
- Operation of 2-and 3-phase synchronous linear motors
- Torque / force, speed, and positioning control
- Position feedback via incremental encoder: RS422, SINCOS
- Position feedback via absolute value encoder: BISS® or HIPERFACE® interface
- Simultaneous use of several feedback systems possible
- Interpolation via EtherCAT or CANopen

→ Control Signals

24-V supply (current consumption without output)	V	24 ±10%
	A	0.8
6 digital control signal inputs	V	LOW 0-7, HIGH 12-36
	mA	10 (at 24 V)
3 digital control signal outputs	V	24
	A	0.5
2 analogue inputs	V	-10 to +10
2 analogue monitor outputs		10 bit resolution
→ Dimensions and Weights		
Dimensions W x H x D	mm	62 x 279 x 167
Weight	kg	2.1
→ External Fuses		
AC supply		10 A (slow-acting)
24-V supply		max. 12 A (fast-acting)
external ballast resistor (not required if resistors for specific use DPRxx-xxx are used)		6 A (fast-acting)

→ Ambient Conditions	
Class	3K3 acc. to EN 50178
Ambient temperature during operation with rated load	5 °C .. 40 °C (storage temperature: - 10 ... 70°C)
Degree of humidity (non-condensing)	max. 95% rel. humidity
Cooling	In a closed cabinet, sufficient circulating air movement must be provided
Installation altitude	max. 1500 m above mean sea level without power reduction
Mounting position	The technical data refer to a vertical mounting position
Protection class	IP20, pollution degree 2
Applied standards for CE	EMC acc. to EN61800-3, safety acc. to EN61800-5-1 For devices with safety function STO: EC machine directive 2006/42/EC
Applied standards for UL	UL508C



Basic Functions

- Digital current, speed, and position control with position, speed and torque limiting
- Digital filter functions effective on resonant loads
- Parameterisable velocity profiles with jerk limiting
- Short-circuit, voltage, temperature, encoder, tracking error, and I^2xt monitoring
- Parameterisation via EtherCAT, Ethernet, CANopen, USB, RS232, RS485, Profibus DP
- Scalable analogue inputs for any setpoint
- Scalable analogue monitor outputs for any actual value
- Intelligent control of a holding brake with automatic voltage reduction
- Limit switch and reference sensor evaluation, various homing modes
- Enabling of output stage and reset of fault conditions via digital input
- Readiness for operation message via digital output
- Status indication and setting of field bus node address and baud rate on the front via seven-segment display and 2 keys

Positioning control on field bus

- Setpoint setting via EtherCAT, Ethernet, CANopen, Profibus DP, RS232 or RS485
- Point-to-point control
- Motion Control / Path interpolation via CANopen or EtherCAT

Master/slave positioning

- Parameterisable electric gearbox
- Master position via encoder signals or CANopen

Positioning with clock/direction setpoint

- Scalable setpoint setting via RS422 for clock/direction signals

Positioning control with digital I/O interface

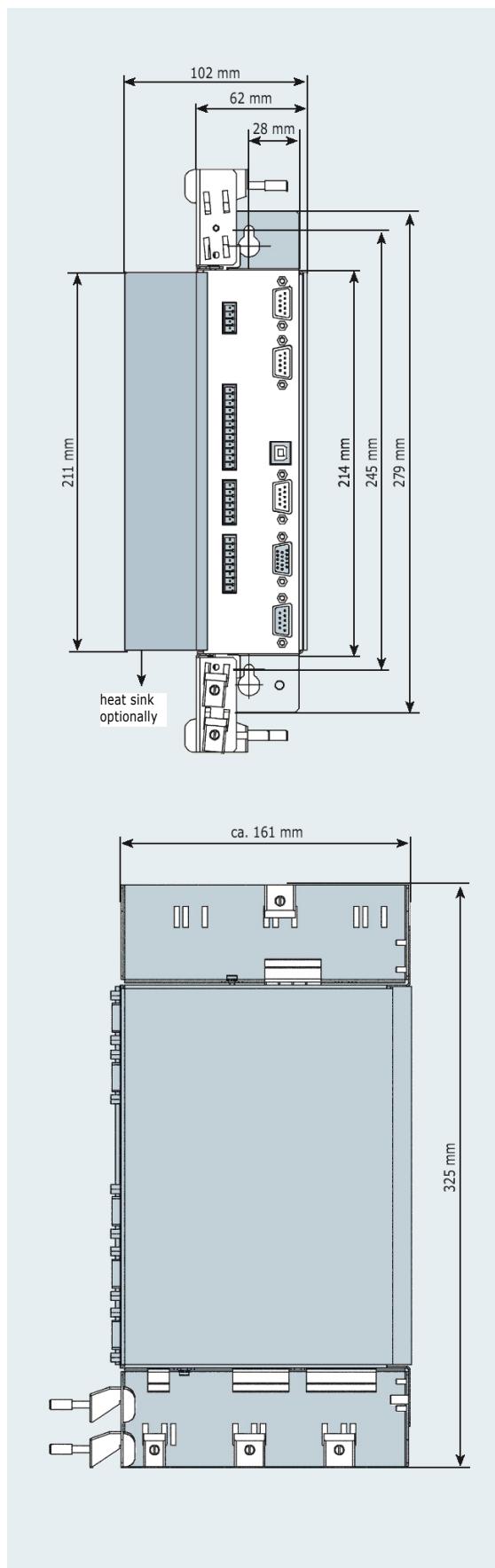
- 256 motion profiles storable
- 8 digital inputs
- 2 digital outputs
- Event-based control concept

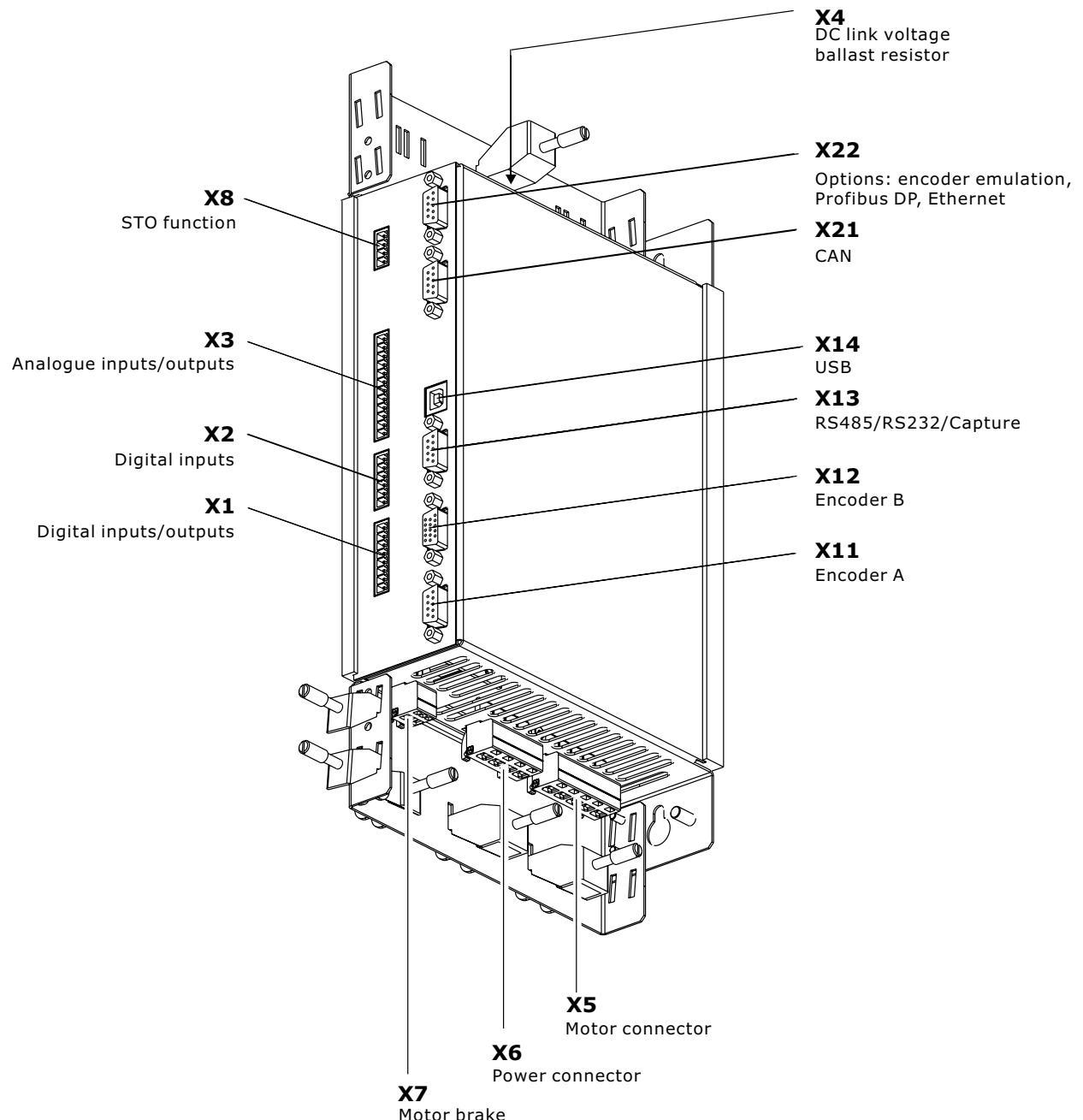
Joystick operation

- Parameterisable joystick table for speed or position with 256 entries
- Joystick connection to +/-10 V analogue input

Speed setting with analogue setpoint

- Scalable speed setpoint via +/-10 V analogue input
- 10 bit resolution





→ **Accessories**

→ **Complementary parts**

DPZ11	Shield set with 1 side part, 2 cable clamps and mounting elements
DPK10	Connector set ECOVARIO® 214/414

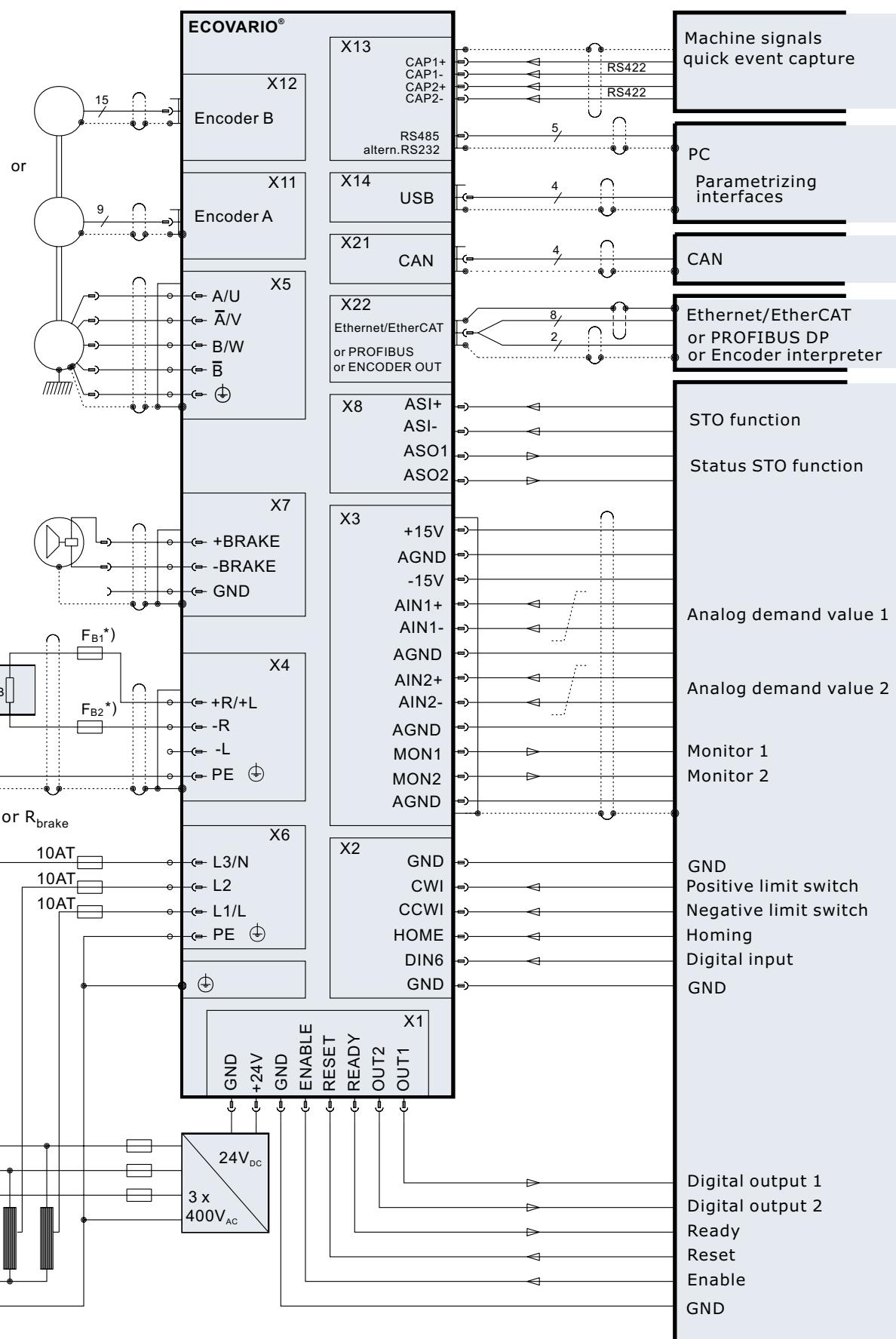
→ **Ballast resistors**

DPR24-100	Ballast resistor 24 Ω/100 W (250 W cooled)
DPR22-200	Ballast resistor 22 Ω/200 W (500 W cooled)

→ **Power supply for control signals**

SV24	Single-phase power supply unit 24 V _{DC} / 5 A
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For details concerning the power supplies please refer to data sheet **11-2**.



*) not necessary if ballast resistor DPRxx is used