



Preliminary!



- Decentral Compact Servo Drive
- Mounting directly at the machine
- Motion Control
- Torque/force, speed, and positioning control
- Field bus: CANopen
- Restart Lock
- Auxiliary Feeder independent of the power circuit



		Series 60E32
→ Rated Values		
Peak torque (c.d.f. 15%)*	[Nm]	1.0
Stall torque (c.d.f. 100%)*	[Nm]	0.5
Rated torque (c.d.f. 100%)*	[Nm]	0.44
Rated speed	[min ⁻¹]	3000
Peak current	[A _{RMS}]	8.5
Stall current (per phase) (c.d.f. 100%)*	[A _{RMS}]	4.25
Rated current (per phase) (c.d.f. 100%)*	[A _{RMS}]	4.0
* Mounting flange 240 x 160 x 6 mm		
→ Technical Data Motor		
Torque constant	[Nm/A]	0.12
Voltage constant	[V/1000min ⁻¹]	6.5
Motor inertia	[kgm ² x 10 ⁻³]	0.01
Insulation class	JATISO, DV-155J VIII	
Max. axial load	[N]	110
Max. radial load	[N]	220
Max. axial load during assembly	[N]	400
→ Technical Data Incremental Encoder		
Resolution	[inc/rev]	128,000
→ Technical Data Multiturn Absolute Value Encoder		
Resolution	17 bit/rev and 12 bit revolutions	

Electrical Connection Data

→ DC Supply

Power supply	V _{DC}	24 .. 60
Recommended fuse for power supply	A	5 A (slow)
Logic supply	V _{DC}	24 (18 .. 30)
Recommended fuse for logic supply	A	3 A (slow)

→ Control Signals

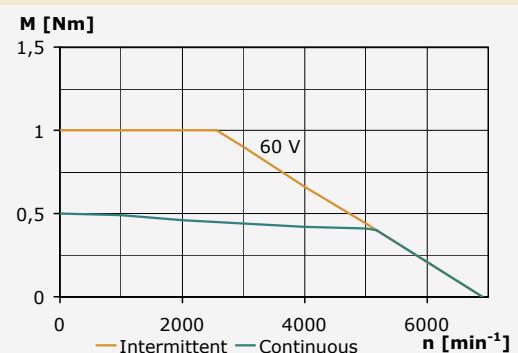
5 digital control signal inputs (2 isolated)	V	LOW 0-7, HIGH 12-36
	mA	2 (at 24 V)
3 digital control signal outputs (2 isolated)	V	24
	A	0.2

→ Dimensions and Weights

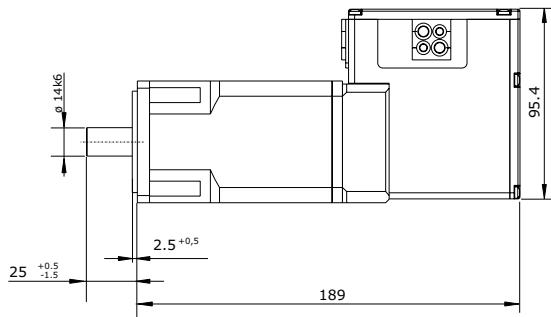
Dimensions: cf. drawings on the next page

Weight 60E32	kg	2.2
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→ Characteristic 60E32



Preliminary!



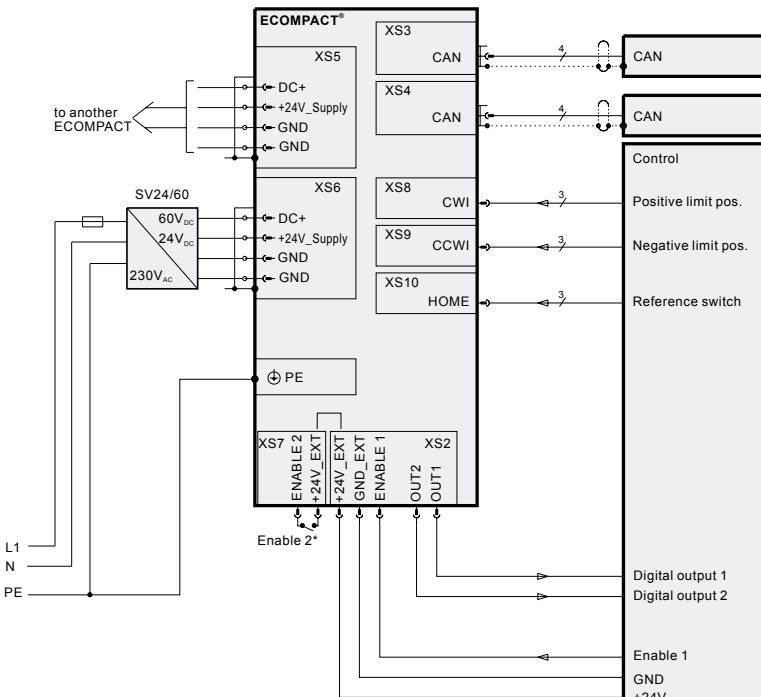
All length specifications with incremental encoder.

Basic Functions

- Digital current, speed, and position control with position, speed and torque limiting
- Digital filter functions effective on resonant loads
- Jerk filters optimize the motion profiles
- Short-circuit, voltage, temperature, encoder, tracking error, and I^2 xt monitoring
- Parameterisation via CANopen
- Limit switch and reference sensor evaluation, various homing modes
- Enabling of output stage via digital input
- Readiness for operation message via digital output
- Restart lockout via second enable input

Positioning control on field bus (CANopen)

- Direct setpoint setting
- Interpolation / Motion Control



*) Optionally, XS7 can be implemented as a free configurable digital input (ECOMPACT-60Exx-xxx-xxx-BB-...)

Ambient Conditions

Ambient temperature during operation with rated load	5 °C .. 40 °C
Storage temperature	-10 °C .. 70 °C
Degree of humidity (non-condensing)	5 .. 95% of rel. humidity (RH-2 acc. to IEC 61 132-2)
Cooling	by means of motor flange and convection
Installation altitude	max. 1000 m above mean sea level without power reduction
Mounting position	any
Protection class	IP40

Applicable Standards

Noise immunity	acc. to EN61800-3
Noise emission	acc. to EN61800-3
CE safety	acc. to EN61800-5-1