



## i EP7211-9034 | Servomotor module with OCT and STO, 50 V DC, 4.5 A ( $I_{rms}$ )

The EP7211-9034 servomotor EtherCAT Box with integrated One Cable Technology (OCT) offers high servo performance in a very compact design for AM8100 series motors with up to 4.5 A ( $I_{rms}$ ). The One Cable Technology combines motor cable and absolute feedback system in a single cable. The integrated electronic identification plate of the AM81xx motors can be read in automatically by the servo box to configure the motor parameters. In this way, wiring and commissioning requirements are simplified.

The high-performance control technology supports fast and highly dynamic positioning tasks, while numerous monitoring functions offer maximum operational reliability. EtherCAT as a high-performance system communication enables ideal interfacing with PC-based control technology. LEDs indicate status, warning and error messages as well as possibly active limitations. Two integrated digital inputs enable the connection of limit switches. The EP7211-9034 enables the user to implement STO safety functions (Safe Torque Off) corresponding to a Cat. 3, PL d safety level according to EN ISO 13849-1:2015.

| Technical data                   | EP7211-9034  |
|----------------------------------|--|
| Technology                       | compact Drive Technology   |
| Load type                        | permanent magnet-excited three-phase synchronous motor   |
| Number of channels               | 1  |
| Number of outputs                | 1 x servomotor, 1 x motor brake  |
| Number of inputs                 | 2 x end position, 1 x feedback, 1 x STO  |
| Connection method                | direct motor connection with OCT   |
| Supply voltage power             | 8...50 V DC (external)   |
| Output current (rms)             | 4.5 A  |
| Peak current (rms)               | max. 9.0 A for 1 s   |
| Frequency range                  | 0...599 Hz   |
| PWM clock frequency              | 16 kHz   |
| Current controller frequency     | 32 kHz   |
| Rated speed controller frequency | 16 kHz   |
| Output voltage motor brake       | 24 V DC  |
| Output current motor brake       | max. 0.5 A   |
| Current consumption from Us      | 120 mA   |
| Distributed clocks               | yes  |
| Special features                 | compact and system-integrated, absolute feedback, One Cable Technology (OCT), plug and play, STO (Safe Torque Off) |
| Electrical isolation             | 500 V  |
| Weight                           | approx. 440 g  |
| Operating/storage temperature    | -25...+60 °C/-40...+85 °C  |
| Vibration/shock resistance       | conforms to EN 60068-2-6/EN 60068-2-27   |
| EMC immunity/emission            | conforms to EN 61000-6-2/EN 61000-6-4  |
| Protect. class/installation pos. | IP 65/66/67 (conforms to EN 60529)/variable  |
| Approvals/Markings               | CE, UL in preparation, TÜV SÜD (certification in preparation)  |

| Accessories                           |  |
|---------------------------------------|--|
| ZK1090-3xxx-xxxx                      | Cables for EtherCAT signal in- and -output |
| ZK2030-xxxx-xxxx,<br>ZK2031-xxxx-xxxx | Cables for 7/8" power supply               |
| ZK2000-5xxx/71xx-xxxx                 | Sensor cable 5-wire unshielded/shielded    |
| ZK4701-04x1-2xxx                      | supply cables for compact Drive Technology |

| Related products |   |
|------------------|---|
| EL7201-9014      | EtherCAT servo terminal for OCT, with STO input, 50 V DC, $I_{rms} = 2.8$ A                   |
| EL7211-9014      | EtherCAT servo terminal for OCT, with STO input, 50 V DC, $I_{rms} = 4.5$ A                   |
| EL7221-9014      | EtherCAT servo terminal for OCT, with STO input, 50 V DC, $I_{rms} = 7 \dots 8$ A with ZB8610 |

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| <b>i</b> <b>Product announcement</b> | estimated market release 1st quarter 2019 |
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