



# Altivar

## The next SMART manufacturing era

Altivar Machine ATV340, innovative variable speed drives for high-performance machines

The Altivar™ Machine ATV340\* drive is robust for high overloads, offering safety, various communication protocols, and cutting-edge motor control solution for machine builders.

Traditional machine design is challenged by the smart manufacturing approach. Changing times require innovative features such as the native Ethernet based - Fast Device Replacement. It gives machine operators a seamless service approach. The embedded encoder is compatible with asynchronous and synchronous motors in closed-loop control applications and the load-sharing master/slave configuration makes ATV340 a SMART manufacturing success.



\* From 1 HP to 100 HP in heavy duty with 3-phase supply voltage from 380 to 480 V.

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# High performance in material handling, material working and hoisting

The ATV340 improves the capabilities and availability of high-performance machines while reducing build costs thanks to:

- **Superior machine performance.** With a maximum torque availability of 1.8 In and optimized speed bandwidth of up to 400 Hz, the ATV340 is ideal for dynamic applications with rapid acceleration. Its frequency inverters can handle high overloads in demanding applications up to 220% nominal torque.
- **Faster reaction time.** A combination of fast application reaction time with a minimum 1 ms task cycle and Ethernet connectivity maximizes your machine's throughput.
- **Simplified machine engineering.** Built-in multiprotocol (Ethernet, Modbus, SERCOS) a variety of interfaces, an embedded encoder and integrated application functions offer maximum flexibility in design. Remote monitoring via the embedded web server enables predictive maintenance. EcoStruxure™ Machine & FDR allow faulty device replacement service with short time machine recovery.
- **Reduced design time.** Complete project replication is possible with one-button auto-tuning for motor identification and supports efficient machine commissioning and production. Additionally, ready-to-use Tested, Validated, and Documented Architectures (TDVAs) and SoMachine software facilitate seamless automation integration.
- **Comprehensive functional safety and cyber security.** With embedded STO (SIL3) and a full range of safety functions (SS1, SLS, SMS, SBC, GDL), the ATV340 is compliant with machine related safety standards EN ISO 13849-1 and EN 62061. The ATV340 also has Achilles level 2 cyber-security certification to protect people and assets while ensuring continuity of service.
- **Robust.** In harsh environments with high levels of dust and vibration and operating temperatures up to 60°C. Due to high IGBT and thermal dissipation efficiency, it allows additional 40% of rated current taking motor power to 130kW under normal duty operation.

**220%**

Nominal torque

**1 ms**

Application cycle time



Modular and Ethernet version with different application approach



Optional Safety card offers for high-end safety functions  
Safe Stop 1 (SS1)  
Safe Limited Speed (SLS)  
Safe Maximum Speed (SMS)  
Safe Brake Control (SBC)  
Guard Door Lock (GDL)



High power Safety solution (up to 75kW), Safety card and additional module support

For more information and product references visit

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