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ABB introduces ACS6080 drive for high performance motor control

ABB has expanded its all-compatible drives offering to include the ACS6080 medium voltage (MV) drive for critical applications. The new drive introduces a breakthrough control technology, developed by ABB, that brings high performance motor control to demanding processes used in industries such as mining, metals and marine. The drive also enables plants to operate more efficiently and produce higher quality output.

Traditionally, achieving high dynamic performance and excellent power quality required hardware with multiple devices. However, this increase in components could decrease reliability of the operation. The ACS6080 drive maintains the same highly reliable hardware as its predecessor, the ACS6000, and includes the new advanced control capability, known as Model Predictive Pulse Pattern Control (MP³C).

ABB's MP³C technology combines model predictive control with optimised pulse pattern to modulate the semiconductors. This means that at every point in time this control can anticipate the best motor operation point by finding the perfect compromise between dynamics, efficiency and harmonic distortion.

The new control enables system integrators and plant operators to maintain stability, while reducing investment and operational costs by using a smaller drive or a smaller motor. The increased power capability of the ACS6080's single power module reduces the footprint of the drive by up to 20 percent. The new control helps to reduce operational cost in two ways: it is more energy efficient than other control solutions, and maintenance costs are reduced as there is less mechanical and thermal stress on the equipment leading to longer lifetime of the components.

The ACS6080 controls all types of AC motors including induction, synchronous and permanent magnet, without the need for different software. It can be tailored to any heavy industrial application, and has a power range from five megawatt (MW) to 36 MW.



Caption: ABB's ACS6080 drive uses breakthrough control technology to combine the power and performance of several devices into one

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