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ABB's AXW water-cooled Large AC motors offer power density with less maintenance

New AXW 315 and 400 IEC water-cooled motors deliver an average of 40 percent more power over conventional fan cooled designs. Constant cooling extends insulation and bearing life for increased uptime.

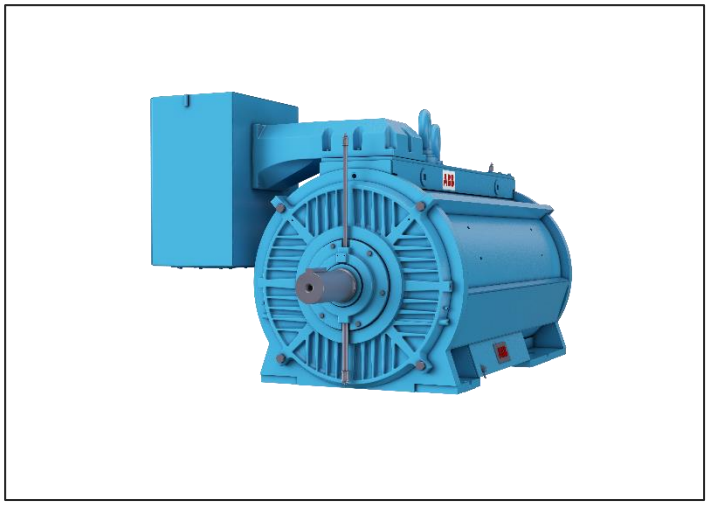
ABB's AXW 315 and 400 IEC water-cooled motors offer more watts per kilogram than conventional totally enclosed fan cooled (TEFC) motors, making them smaller and lighter but just as powerful. The motor's smaller footprint allows for compact installations where space is limited. AXW motors are suitable for a broad range of industries, including mining, cement, water, power and pulp and paper.

The new cooling configuration features an optimized water jacket construction combined with an internal air-cooling loop for better heat distribution and dissipation. This prevents thermal hot spots and keeps internal temperatures more balanced for longer bearing and insulation life.

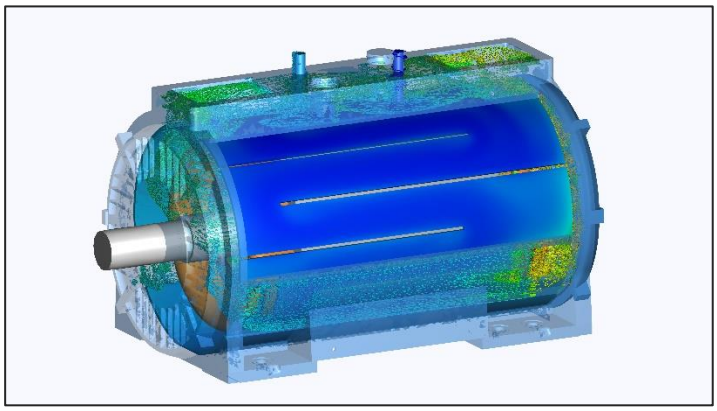
"Water-cooling is a highly efficient method of transferring heat away from the motor without the need for an external fan," says Charles Blankenship, Large AC Motor Product Manager, ABB. "The AXW an ideal choice for dirty and dusty environments as environmental contaminates do not affect cooling capability. The absence of a fan also reduces noise levels and does not blow dust into the air where people are working."

The main terminal box and auxiliary box can be mounted in several positions to ensure installation and maintenance are easy. This also means fewer spares are needed, which saves money. The rigid frame design increases stability so that the motor has very low vibrations and can meet stringent vibration limit specifications.

The AXW water-cooled Large AC motor is also available for the above NEMA market with the AXW 5000 and 5800.



Caption: The new cooling configuration of the AXW offers a more thermally equalized motor, eliminating hot spots



Caption: Better cooling reduces thermal stresses on the insulation system, which helps improve the motor's longevity

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