



Davis Controls®

A Breed Above the Rest

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ProdNews



Since 1968 Danfoss Drives has been dedicated to developing VLT® variable frequency drives to control speed, torque, acceleration, synchronization, positioning, and the overall performance of AC motors. The reliable and innovative VLT® drives are designed to support any automation application and provide major energy savings.

VLT® Industrial Drive FC300

The VLT® Automation Drive is a single drive concept that controls all operations from standard induction motors to permanent magnet servo motors on any machine or production line. The standard versions cover a wide range of functions such as PLC functionality, automatic fine-tuning of motor control and self-analysis of performance. Positioning, synchronizing, programmable motion control and even servo performance are also available. All versions share an identical user interface, so once you have operated one, you can use them all. The VLT® Automation Drive FC302 is equipped with safe stop functionality suitable for category 3 installations as defined by EN954-1. This standard feature prevents a drive from starting accidentally. Enclosure options range from chassis to Nema 4, with available built in fuses and or fused disconnect. The FC302 is available in voltages from 220 to 690 and HP ranges up to 1.2 MW. Low harmonic drives are available from 90 KW offering IEEE-519 compliance.



**Come visit
Davis Controls
at
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November 3, 2009
Mayfield Inn,
Edmonton**



VLT® Aqua Drive FC202

The FC202 Aqua series is the only dedicated water and wastewater VFD on the market. The VLT® Aqua drive offers a wide range of powerful features designed specifically for water and wastewater applications. Pump specific features protect valuable equipment while providing unparalleled control and flexibility. With features such as sensorless control, Automatic energy optimizer, dry pump detection, sleep mode, cascade control and end of curve detection; the Aqua drive provides the lowest cost of ownership of any drive available. The award winning Local Control Panel (LCP) with its large graphical display and built in information button providing onboard help virtually make the printed manual redundant. Enclosure options range from chassis to Nema 4, with available built in fuses and or fused disconnect. The Aqua drive is available in voltages from 220 to 690 and HP ranges up to 1.2 MW. Low harmonic drives are available from 90 KW offering IEEE-519 compliance.



VLT®: Micro Drive Small Drive - Maximum Strength and Reliability

Danfoss Drives has added an M5 frame size to its VLT® Micro Drive family. The M5 frame size is 11.5 in. H x 6.5 in. W x 9.8 in. D, and covers the three-phase 380 - 480 VAC, 25 - 30 HP range. The drive offers true side-by-side mounting without any derating due to its compact book-style design. An Automatic Energy Optimizer function allows the drive to consume less energy while the Automatic Motor Adaptation feature leverages the motor's full operating potential. Users will also benefit from up to 150% more torque for up to a full minute, eliminating the need to oversize the drive. In addition to the new M5 frame size, VLT® Micro Drives are also available in single-phase 200 - 240 VAC, 0.25 - 3 HP; three-phase 200 - 240 VAC, 1/3 - 5 HP; three-phase 380 - 480 VAC, 0.5 - 10 HP; and three-phase 380 - 480 VAC, 15 - 20 HP power range configurations. Conformal

coated circuit boards and built in RFI filter are standard. Sequential logic controller, process controller, ETR and Modbus are also standard built in features. Brake chopper circuit is built in from 2hp.



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