

**PowerXL DM1 drives
HVAC/R applications**



Demand the best for your HVAC equipment

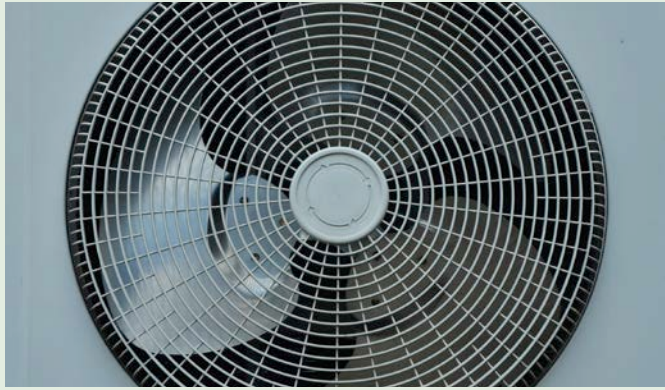


The PowerXL™ DM1 is the optimal compact and flexible solution for HVAC equipment applications. A compact footprint, best-in-class connectivity and flexibility of short-circuit protection and motor control all contribute to a robust drive that is easy to implement and operate.

Best-in-class short-circuit combination ratings	Motor control flexibility	Designed with safety in mind	Connectivity without compromise
<ul style="list-style-type: none"> • Certified under new IEC/UL® standard, 61800-5-1 • 100 kAIC with fuses and MCCBs • 65 kAIC with type E manual motor protectors • 10/14 kAIC with miniature circuit breakers • No additional fuses or line reactors necessary 	<p>Asynchronous motor control:</p> <ul style="list-style-type: none"> • IE2 high efficiency motors • IE3 premium efficiency motors • IE4 super premium efficiency motors <p>Permanent magnet motor control:</p> <ul style="list-style-type: none"> • Surface permanent magnet motors • Interior permanent magnet motors • Brushless DC motors • Custom motor tuning available 	<ul style="list-style-type: none"> • STO SIL2 on board to eliminate extra componentry and provide equipment motor control that's inherently safe • Commission and manage the drive via Bluetooth to protect the technician, engineer or operator from open or energized equipment • Suite of motor and equipment protective features built into DM1 parameters to prevent wear and tear 	<ul style="list-style-type: none"> • Bluetooth to wirelessly connect DM1 to Power Xpert® inControl PC software • Webserver for parameterization via simple Ethernet connection, no special cables required • Pro model features Ethernet and serial-based communications



Powering Business Worldwide



Air handling units

- **Easy to design and install**—compact footprint, side-by-side mounting, plenum-rated and wide temperature operating range
- **Simple to integrate**—on-board Modbus® RTU, BACnet MSTP, and Ethernet-based communications allow to inexpensively tie into AHU controller and upstream BMS
- **Resettable circuit protection**—short-circuit combination ratings with manual motor protectors and molded case circuit breakers to eliminate costs with a circuit trip

Exhaust fans and fan walls

- **Active Energy Control®**—energy optimization algorithm to provide energy savings 5–10% above other VFDs
- **We speak “fans”**—HVAC-specific control and protection features that translate into real-world applications
- **Basic needs**—basic models (without keypad and STO) reduce overall cost while providing tremendous value

Compressors and refrigeration

- **Flexibility of ratings**—features variable torque and constant torque ratings to reduce part numbers and optimize costs
- **Flexibility of motors**—controls IE2, IE3 and IE4 asynchronous motors, as well as permanent magnet motors
- **Robust control**—torque boost to start compressors, PID loop for autonomous control and built-in brake chopper to truly control the compressor

Product range

- 115 V, 1 hp in / 230 V, 3 hp out up to 7.8 A
- 230 V, 1 hp in / 230 V, 3 hp out up to 25 A
- 230 V, 3 hp in / 230 V, 3 hp out up to 62 A
- 480 V, 3 hp in / 480 V, 3 hp out up to 46 A
- 575 V, 3 hp in / 575 V, 3 hp out up to 27 A



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