






ABB NEMA motor and drives

For HVAC systems

ABB is a leader in power and automation technologies that enable utility, industrial and commercial customers to improve performance, reduce cost and minimize environmental impacts.

HVAC motors

Product	Specification	Benefits and features
Inverter-Duty® motors 	1 - 100 Hp (.75 - 75kW) Totally enclosed, open drip proof, three phase	Inverter-Duty NEMA Premium efficiency and 3 year warranty. Fit with bearing current mitigation devices mounted internally to minimize shaft currents (Baldor-Reliance® shaft grounding brush and AEGIS® bearing protection ring options available).
General HVAC motors 	1 - 100 Hp (.75 - 75kW) Totally enclosed, open drip proof, three phase	Inverter-Duty NEMA Premium efficiency HVAC motors in TEFC and DOP designs with ball bearings and plugged grease packages. External provisions for bearing current mitigation.
Chiller/cooling tower motors 	5 - 60 Hp (3.7 - 45kW) Totally enclosed, three phase	Inverter-Duty NEMA Premium efficiency and 3 year warranty. These motors are designed to operate in high humidity environments. Corrosion resistant epoxy paint, double sealed bearings filled with moisture resistant grease, shaft seal/slinger.
Definite purpose HVAC motors 	0.25 - 10 Hp (.19 - 7.5kW) Totally enclosed, open drip proof, single and three phase	A variety of definite purpose motors suitable in the HVAC industry include condenser fan motor, ventilation fan motor, TEAO motors, direct drive fans, resilient base options and more.
EC Titanium™ 	1 - 20 Hp (0.75-15kW) Totally enclosed, three phase	Industry leading motor that achieves IE5+ efficiency levels. This motor is designed for constant and variable torque applications and comes standard with an internal grounding brush.

Pump motors




Product	Specification	Benefits and features
Jet pump 	0.33 - 3 Hp (0.25 - 2.2kW) Totally enclosed, three phase 0.33 - 3 Hp (0.25 - 2.2kW) Open drip proof, single and three phase 0.33 - 2 Hp (0.25 - 1.5kW) Totally enclosed, single phase	Construction features include a sturdy steel frame, cast aluminum end-plates with steel bearing seat inserts for mechanical reliability. Opposite drive end shaft is slotted for convenience. Also available in washdown options for added protection.
JM, JP, WCP close coupled pump motors 	1 - 50 Hp (0.75 - 37.3kW) Totally enclosed, three phase 1 - 75 Hp (0.75-56kW) Open drip proof, three phase 3 - 5 Hp (2.2 - 3.73kW) Totally enclosed, single phase 3 - 10 Hp (2.2 - 7.5kW) Open drip proof, single phase	The motor flange and shaft are designed to support the pump unit. Close coupled pump motors include oversized ball bearings with locked drive end construction to minimize endplay. Super-E® Premium efficiency motors have a corrosion resistant finish and are suitable to mount in any position. Also available with AEGIS® bearing protection ring for VFD driven pumps.
Fire pumps 	10 - 300 Hp (7.5 - 224kW) Open drip proof, three phase	All motors meet NEMA MG1 and UL requirements (File# E481231) in open drip proof enclosures designed for relatively clean and dry environments. Exterior red paint RAL3002. Fire pumps installed per NFPA-20.

ABB Drives

Product / offering

ACH580

1 to 700 Hp



Benefits and features

All ACH580 drives offer ease of use, scalability, reliability, and come in a variety of packages. They can be equipped with an intuitive Bluetooth control panel, allowing the drive to be configured directly via the control panel or via the Drivetune app. A robust HVAC firmware package provides drive, motor, and application protection features. The drive includes BACnet MS/TP, Modbus RTU, and Johnson Controls N2. Additional protocols, such as BACnet/IP, Modbus TCP, Ethernet I/P and LonWorks, are available with optional fieldbus adapters.

Suggested applications

ACH580 drives are ideal for HVAC fans, pumps, compressors, air-handling units, and chillers. These drives are used in hospitals, data centers, shopping centers, tunnel ventilation, factories, office buildings, and more.

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