PRODUCT NOTE

Baldor-Reliance® V*S Master motors

Standard NEMA frame variable speed motors

Vector Duty motor

Inverter Duty motor

Baldor-Reliance V*S Master inverter duty AC motors are designed to provide full load torque continuously from zero to base speed making them ideal for inverter duty applications. The motors are built in NEMA frames for drop-in replacement and new applications.

BALDOR • RELIANCE

Designed to perform
V*S Master motors provide 200% overload torque for one minute below base speed and constant horsepower operation to 1.5 times the base speed.

Designed to last longer
V*S Master motors use an inverter duty insulation system to extend the life of the motor. This unique system exceeds NEMA MG1 Part 31 requirements for motors operated on PWM inverter drives and eliminates the formation of corona, which can greatly shorten the insulation life.

Designed for your application
V*S Master motors are ideal for applications that require constant torque or a wide speed range such as:

- Extruders
- Conveyors
- Crane and hoist
- Winders
- Web processing
- Process control
- Test stands
- Centrifugal pumps and fans

V*S Master motors are available in:
- Standard NEMA frame 56 to 449T
- Small ratings are offered in TENV enclosures
- Large ratings are offered in TEFC and TEBC enclosures
- 900, 1200 and 1800 RPM standard base speeds available (other speeds available on custom motors)
- Standard motors available from 1/3 to 300 Hp (0.25 to 224 kW) (Severe Duty Vector 1 to 50 Hp [0.75 to 37.3 kW])
- Custom motors are available 0.5 to 500 Hp (0.37 to 373 kW)
- Accessory kits for feedback devices available

Inverter Duty Blower Cooled

Inverter Duty with encoder provisions

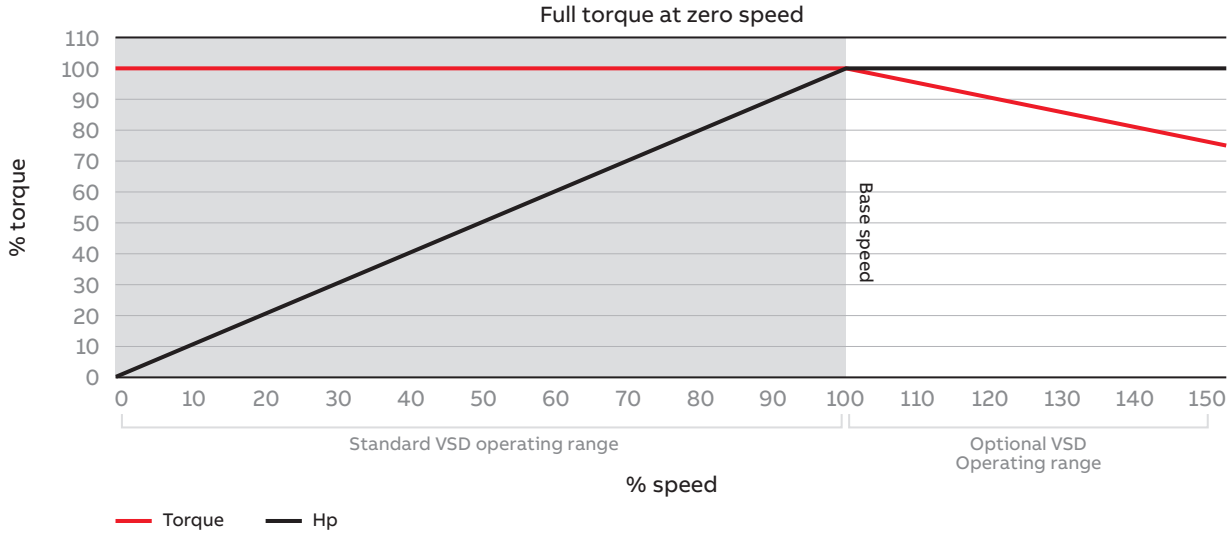
Vector Duty Blower Cooled

Vector Duty Totally Enclosed

Features of Baldor-Reliance V*S Master motors

- Encoder mounting provisions are provided as standard (hole drilled and tapped in shaft)
- Encoder mounting kits are available from stock for hollow shaft encoders
- Large selection of encoders available on production motor
- Class F or H insulation
- TEFC motors provide Class B rise over the 4:1 constant torque range
- Three normally closed thermostats are standard
- Drive end insulated bearings are standard on all 440T frames and are available as an option on other frames
- Oversized conduit box
- Re-greaseable bearings
- Stainless steel nameplate
- Mod-Express® features available to provide short lead times. Contact your ABB representative for more information.

V*S Master speed/torque curve



V*S Master motors operate from zero to base speed with continuous full load torque

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