

MECON HVT20 CONTROLLER



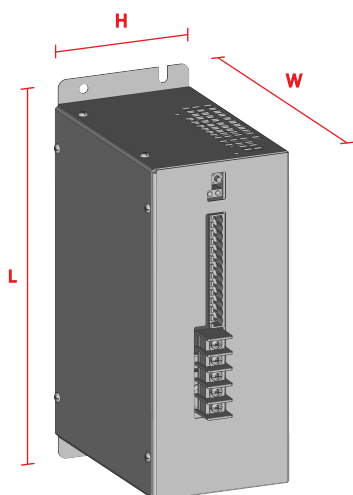
MEDEval,
Drive
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HIGH VOLTAGE BRUSHLESS DC MOTOR CONTROLLER

The MECON HVT20 series of controller is a three phase motor controller specially designed for electronic commutation of sensored brushless motors. It is equipped with advance motor control algorithms and in-house designed gate drivers for robust performance.

Simple speed control is achieved by hall sensors in open loop as well as closed loop control modes. Accurate fault detection makes the controller well protected in overlimit conditions.

High efficiency and cost effectiveness makes it possible to integrate it in OEM applications. HVT20 controllers can be used in general industrial applications as well as applications where high torque demand is required.



TECHNICAL SPECIFICATION

HVT20

Operating mode	Open loop, Closed loop pid
Feedback	HALL sensors (U, V, W)
Power	400W (HVT20A) 750W (HVT20B) 1500W (HVT20C) 2200W (HVT20D)
Voltage	220Vac Single ph Input
Current (cont.)	1.3A (HVT20A) 2.5A (HVT20B) 4.9A (HVT20C) 7A (HVT20D)
RPM range	20000 RPM
Speed input	0 - 10V / 1 - 10KHz PWM
Hall voltage	5V (25mA max.)
Acceleration	0 - 20 s
Deceleration	0 - 20 s
Over voltage	260Vac
Under voltage	180Vac
Overload	150% (60 s)
Stall protection	6 s
Operating temp.	-5 - 40°C (ambient)
Max. temp.	80°C (heatsink)
Communication	RS485
HVT20A/B (LxWxH)	(218mm x 118mm x 87mm)
HVT20C/D	(228mm x 138mm x 87mm)

Additional digital keypad interface capability

