Oct 31, 2026

Product data sheet

HAVBA2S0022G

Characteristics

Variable speed drive, BASIC, 2.2 kW, 220 V, 1 phase, advanced

Main

Range of product	BASIC
Product or component type	Variable speed drive
Product specific application	Pumps and fans
Network number of phases	1 phase
[Us] rated supply voltage	200...220 V - 10...10 %
Supply frequency	50...60 Hz
Motor power kW	2.2 kW for heavy duty
Motor power hp	3 hp for heavy duty
Maximum transient current	14.7 A during 1 min (heavy duty) 17.64 A during 3 s (heavy duty) 19.6 A during 0 s (heavy duty)
Asynchronous motor control profile	SVC and V/f energy saving ratio
Speed drive output frequency	0…599 Hz
Continuous output current	9.8 A

Complementary

Variant	Basic With additional power supply 24 V DC
Product destination	Asynchronous motors
Type of cooling	Fan
Communication port protocol	Modbus
Regulation loop	Adjustable PID regulator
Acceleration and deceleration ramps	Linear adjustable separately from 0.01 to 3600 s
Frequency resolution	Digital input: 0.005/50 Hz Analog input: 0.05/50 Hz
Analogue input number	2
Analogue input type	AI1 voltage: 0...10 V, impedance: 102 kOhm, resolution 0.01 V AI2 voltage: 0...10 V, impedance: 255 Ohm, resolution 0.01 V AI2 current: 0...20 mA, impedance: 255 Ohm, resolution 0.02 mA
Discrete input number	5
Discrete input type	Programmable (DI1...DI4) Programmable as pulse input (DI5)
Analogue output number	2
Analogue output type	AO1 voltage: 0...10 V AO2 voltage/current: 0...20 mA or 0...10 V
Discrete output number	3
Discrete output type	configurable relay logic 250 V (5 A) for NO relay output circuit configurable relay logic 250 V (3 A) for NC relay output circuit open collector 9...30 V (50 mA) open collector for pulse output

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Output frequency	50 kHz for pulse output at DO2
Display type	7 segments LED for 25 parameters
Device application	Speed control
Device composition	Built-in breaking unit
Type of installation	Indoor/outdoor
Control type	Manual using keypad Using control terminal Using serial port Three way control using output collector terminals
Application	Bread machine Bag machine Carving machine Small conveyor Fan Pump
Device mounting	Wall mounted Enclosure DIN rail
Speed accuracy	+/- 0.1 % of nominal speed
Protection type	Overcurrent Overvoltage Undervoltage Overheating Overload
Width	106 mm
Height	200 mm
Depth	148.5 mm

Environment

Relative humidity	0…95 % without condensation
Ambient air temperature for storage	-20…60 °C
Quality labels	CE
Operating altitude	= 1000 m
IP degree of protection	IP20
Ambient air temperature for operation	-10…40 °C
Environmental characteristic	Dust resistant Corrosive gas free Oil and vapour resistant
Vibration resistance	5.9 m/s²

Offer Sustainability

Sustainable packaging	No