

Product data sheet Characteristics

HAVBA2S0022G

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



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

Complementary

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	Al1 voltage: 010 V, impedance: 102 kOhm, resolution 0.01 V Al2 voltage: 010 V, impedance: 255 Ohm, resolution 0.01 V Al2 current: 020 mA, impedance: 255 Ohm, resolution 0.02 mA
Discrete input number	5
Discrete input type	Programmable (DI1DI4) Programmable as pulse input (DI5)
Analogue output number	2
Analogue output type	AO1 voltage: 010 V AO2 voltage/current: 020 mA or 010 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 930 V (50 mA) Open collector for pulse output
Output frequency	50 kHz for pulse output at DO2
Display type	7 segments LED for 25 parameters
Device application	Speed control

rent

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for defermining suitability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Himel nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 O95 % without condensation Ambient air temperature for storage -2060 °C Quality labels CE Operating altitude IP degree of protection IP20 Ambient air temperature for operation Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant Vibration resistance 5.9 m/s²		
Quality labels CE Operating altitude <= 1000 m IP degree of protection IP20 Ambient air temperature for operation IP30 Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant	Relative humidity	095 % without condensation
Operating altitude <= 1000 m IP degree of protection IP20 Ambient air temperature for operation -1040 °C Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant	Ambient air temperature for storage	-2060 °C
IP degree of protection IP20 Ambient air temperature for operation -1040 °C Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant	Quality labels	CE
Ambient air temperature for operation -1040 °C Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant	Operating altitude	<= 1000 m
Environmental characteristic Dust resistant Corrosive gas free Oil and vapour resistant	IP degree of protection	IP20
Corrosive gas free Oil and vapour resistant	Ambient air temperature for operation	-1040 °C
Vibration resistance 5.9 m/s ²	Environmental characteristic	Corrosive gas free
	Vibration resistance	5.9 m/s²

