Product data sheet
Characteristics

HAVBA4T0022G
Variable speed drive, BASIC, 2.2 kW, 380 V, 3 phase, advanced

Main

Range of product	BASIC
Product or component type	Variable speed drive
Product specific application	Pumps and fans
Asynchronous motor control profile	SVC and V/f energy saving ratio
Regulation loop	Adjustable PID regulator
Device application	Speed control

Complementary

Variant	Basic With additional power supply 24 V DC
Product destination	Asynchronous motors
Type of cooling	Fan
Network number of phases	3 phases
[Us] rated supply voltage	380...440 V - 15...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	7.5 A during 1 min (heavy duty) 9 A during 3 s (heavy duty) 10 A during 0 s (heavy duty)
Speed drive output frequency	0…650 Hz
Communication port protocol	Modbus
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
Output frequency	50 kHz for pulse output at DO2
Display type	7 segments LED for 25 parameters
Device composition	Built-in breaking unit

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 determining suitability or reliability 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.

Type of installation	Indoor/outdoor
Control type	Manual using keypad Using control terminal Using serial port Three way control using output collector terminals
Continuous output current	5 A
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	80 mm
Height	150 mm
Depth	136.5 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