



## Product data sheet

# HA VSO2S0015GSM

### Characteristics

Variable speed drive, SOLAR, 1.5 kW 220V, 1 phase, HD, 1 phase motor



#### Main

Range of product	SOLAR
Product or component type	Variable speed drive
Product specific application	Solar pump
Network number of phases	1 phase
[Us] rated supply voltage	220 V AC - 15...15 % 150...440 V DC
Supply voltage type support	AC/DC
Supply frequency	50...60 Hz
Motor power kW	1.5 kW for heavy duty
Motor power hp	2 hp for heavy duty
Maximum transient current	15 A during 1 min (heavy duty) 18 A during 3 s (heavy duty) 20 A during 0 s (heavy duty)
Asynchronous motor control profile	Sensorless vector control (SVC) Voltage/frequency ratio (V/f)
Speed drive output frequency	0...400 Hz
Continuous output current	10 A

#### Complementary

Product destination	Asynchronous motors
Function available	MPPT function Auto start-run-stop Energy/flow calculator Pump cleaning Multi-speed operation Energy saving mode
Type of cooling	Fan
Regulation loop	Adjustable PID regulator
Acceleration and deceleration ramps	Linear adjustable separately from 0.01 to 6500 s
Frequency resolution	Analog input: 0.05/50 Hz
Analogue input number	1
Analogue input type	AI1 voltage: 0...10 V AI1 current: 0...20 mA
Discrete input number	4
Discrete input type	Programmable (DI1...DI4)
Analogue output number	1
Analogue output type	AO1 voltage/current: 0...20 mA or 0...10 V
Discrete output number	2

Discrete output type

configurable relay logic 250 V (3 A) for NO relay output circuit  
configurable relay logic 250 V (3 A) for NC relay output circuit  
configurable relay logic 30 V DC (3 A) for NO relay output circuit  
configurable relay logic 30 V DC (3 A) for NC relay output circuit  
open collector 9...30 V (50 mA)

Output frequency

50 kHz for pulse output at DO1

Display type

5 digits 7 segments for 39 parameters

Device application

Speed control

Type of installation

Indoor/outdoor

Control type

Manual using keypad  
Using control terminal  
Using serial port

Device mounting

Wall mounted  
DIN rail

Speed accuracy

+/- 0.5 % of nominal speed

Protection type

Overcurrent  
Overvoltage  
Undervoltage  
Overheating  
Overload  
Short-circuit  
Phase loss  
Low light protection

Width

105 mm

Height

165 mm

Depth

161.4 mm

### Environment

Relative humidity

0...95 % without condensation

Ambient air temperature for storage

-20...65 °C

Quality labels

CE

Operating altitude

= 1000 m

IP degree of protection

IP20

Vibration resistance

5.9 m/s<sup>2</sup>

### Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

1

### Contractual warranty