

## Product data sheet

## HAVSO2S0015GSM

### 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)

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Output frequency 50 kHz for pulse output at DO1

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Display type 5 digits 7 segments for 39 parameters

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Device application Speed control

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Type of installation Indoor/outdoor

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Control type Manual using keypad  
Using control terminal  
Using serial port

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Device mounting Wall mounted  
DIN rail

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Speed accuracy +/- 0.5 % of nominal speed

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

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Width 105 mm

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Height 165 mm

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Depth 161.4 mm

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### Environment

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Relative humidity 0...95 % without condensation

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Ambient air temperature for storage -20...65 °C

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Quality labels CE

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Operating altitude

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IP degree of protection IP20

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

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### Contractual warranty

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Warranty 24 months

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