



## Product data sheet

## HA VXS4T0007G

### Characteristics

Variable speed drive, EXPERT-Standard, 0.75 kW, 380 V, 3 phase, standard



#### Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | EXPERT-Standard   |
| Product or component type          | Variable speed drive  |
| Product specific application       | Advance general purpose   |
| Format of the drive                | Standard  |
| Product destination                | Asynchronous motors   |
| IP degree of protection            | IP20  |
| Type of cooling                    | Fan   |
| Network number of phases           | 3 phases  |
| [Us] rated supply voltage          | 380...440 V - 15...10 %   |
| Motor power kW                     | 0.75 kW for heavy duty  |
| Motor power hp                     | 1.01 hp for heavy duty  |
| Maximum transient current          | 3.45 A during 1 min (heavy duty)<br>4.14 A during 3 s (heavy duty)<br>4.6 A during 0 s (heavy duty) |
| Asynchronous motor control profile | SVC and V/f energy saving ratio   |
| Speed drive output frequency       | 0...550 Hz  |
| Communication port protocol        | Modbus<br>PROFINET  |

#### Complementary

|                                  |  |
|----------------------------------|--|
| Device application               | Speed control  |
| Function available               | Automatic voltage regulation (AVR)<br>Energy saving mode<br>Fixed and variable swing frequency<br>Length control<br>Sagging (multiple inverters drive one load)<br>Multi-speed operation<br>Jogging<br>Adjustable wobble frequency |
| Supply frequency                 | 50...60 Hz   |
| Maximum voltage unbalance factor | 3 %  |
| Continuous output current        | 2.3 A heavy duty   |
| Control type                     | Manual using keypad<br>Using control terminal<br>Using serial port<br>Three way control using output collector terminals   |
| Efficiency                       | 93 %   |
| Communication service            | Read motor parameters automatically  |
| Electrical connection            | DC bus sharing   |
| Speed range                      | 1...100 in open-loop mode  |
| Speed accuracy                   | +/- 0.1 % of nominal speed   |

|                                       |   |
|---------------------------------------|---|
| Regulation loop                       | Adjustable PID regulator  |
| Acceleration and deceleration ramps   | Linear adjustable separately from 0.1 s...60 h<br>S-curve adjustable separately from 0.1 s...60 h   |
| Braking to standstill                 | By DC injection, 30 s   |
| Protection type                       | Overcurrent<br>Overvoltage<br>Undervoltage<br>Overheating<br>Overload   |
| Protection technology                 | Current limiter   |
| Frequency resolution                  | Digital input: 0.01 Hz<br>Analog input: 0.55 Hz   |
| Display type                          | 2 x 7-segment LED for 27 parameters   |
| Device mounting                       | Wall mounted<br>Enclosure<br>Flange   |
| Product compatibility                 | External braking unit<br>Communication module<br>I/O extension module   |
| Width                                 | 120 mm  |
| Height                                | 215 mm  |
| Depth                                 | 158 mm  |
| Analogue input number                 | 3   |
| Analogue input type                   | AI1 voltage: 0...10 V, impedance: 100000 Ohm, resolution 12 bits<br>AI2 voltage: 0...10 V, impedance: 165 Ohm, resolution 12 bits<br>AI2 current: 0...20 mA, impedance: 165 Ohm, resolution 12 bits<br>AI3 voltage: differential +/- 10 V, resolution 12 bits |
| Discrete input number                 | 6   |
| Discrete input type                   | Programmable (DI1...DI5)<br>Programmable as pulse input (DI6)   |
| Analogue output number                | 1   |
| Analogue output type                  | AO1 voltage/current: 0...20 mA or 0...10 V<br>AO1 voltage/current: 4...20 mA or 2...10 V  |
| Discrete output number                | 4   |
| Discrete output type                  | configurable relay logic 250 V (5 A) for NO relay output circuit<br>configurable relay logic 250 V (3 A) for NC relay output circuit<br>open collector 9...30 V (50 mA)   |
| Device composition                    | Built-in breaking unit  |
| Type of installation                  | Indoor/outdoor  |
| Application                           | Material handling machine<br>Textile machine<br>Material working machine<br>Industrial washing machine<br>Air compressor<br>Construction elevator<br>Metal and mining process<br>Petrochemical  |
| <b>Environment</b>                    |   |
| Vibration resistance                  | 5.9 m/s <sup>2</sup>  |
| Relative humidity                     | 0...90 % without condensation   |
| Ambient air temperature for operation | -10...40 °C   |
| Ambient air temperature for storage   | -20...60 °C   |
| Operating altitude                    | = 1000 m  |
| Environmental characteristic          | Dust resistant<br>Corrosive gas free<br>Oil and vapour resistant  |
| Marking                               | CE  |

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