

Product data sheet

HA VXS4T0550G0750P

Characteristics

Variable speed drive, EXPERT-Standard, 55 kW, 380 V, 3 phase, standard



Main

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|------------------------------------|--|
| 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 | 55 kW for heavy duty 75 kW for light duty |
| Motor power hp | 73.76 hp for heavy duty 100.58 hp for light duty |
| Maximum transient current | 165 A during 1 min (heavy duty) 198 A during 3 s (heavy duty) 220 A during 0 s (heavy duty) 188.4 A during 1 min (light duty) 235.5 A during 3 s (light duty) 282.6 A during 0 s (light duty) |
| Asynchronous motor control profile | SVC and V/f energy saving ratio |
| Speed drive output frequency | 0...550 Hz |
| Communication port protocol | Modbus PROFINET |

Complementary

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|----------------------------------|--|
| Device application | Speed control |
| Function available | Automatic voltage regulation (AVR) Energy saving mode Fixed and variable swing frequency Length control Sagging (multiple inverters drive one load) Multi-speed operation Jogging Adjustable wobble frequency |
| Supply frequency | 50...60 Hz |
| Maximum voltage unbalance factor | 3 % |
| Continuous output current | 110 A heavy duty 157 A light duty |
| Control type | Manual using keypad Using control terminal Using serial port Three way control using output collector terminals |
| Efficiency | 93 % |
| Communication service | Read motor parameters automatically |
| Electrical connection | DC bus sharing |

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|---------------------------------------|---|
| 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 S-curve adjustable separately from 0.1 s...60 h |
| Braking to standstill | By DC injection, |
| Protection type | Overcurrent Overvoltage Undervoltage Overheating Overload |
| Protection technology | Current limiter |
| Frequency resolution | Digital input: 0.01 Hz Analog input: 0.55 Hz |
| Display type | 2 x 7-segment LED for 27 parameters |
| Device mounting | Wall mounted Enclosure Flange |
| Product compatibility | External braking unit Communication module I/O extension module |
| Width | 320 mm |
| Height | 560 mm |
| Depth | 308 mm |
| Analogue input number | 3 |
| Analogue input type | AI1 voltage: 0...10 V, impedance: 100000 Ohm, resolution 12 bits AI2 voltage: 0...10 V, impedance: 165 Ohm, resolution 12 bits AI2 current: 0...20 mA, impedance: 165 Ohm, resolution 12 bits AI3 voltage: differential +/- 10 V, resolution 12 bits |
| Discrete input number | 6 |
| Discrete input type | Programmable (DI1...DI5) Programmable as pulse input (DI6) |
| Analogue output number | 1 |
| Analogue output type | AO1 voltage/current: 0...20 mA or 0...10 V 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 configurable relay logic 250 V (3 A) for NC relay output circuit open collector 9...30 V (50 mA) |
| Type of installation | Indoor/outdoor |
| Application | Material handling machine Textile machine Material working machine Industrial washing machine Air compressor Construction elevator Metal and mining process Petrochemical |
| Environment | |
| Vibration resistance | 5.9 m/s ² |
| Relative humidity | 0...90 % without condensation |
| Ambient air temperature for operation | -10...40 °C |
| Ambient air temperature for storage | -20...60 °C |
| Operating altitude | |

Environmental characteristic

Dust resistant
Corrosive gas free
Oil and vapour resistant

Marking

CE
