

VFAS3-4900PC Cut Sheet



Toshiba AS3 series AC high-performance drive, open frame, 460 VAC, 125hp with 3-phase input, V/Hz, FOC, encoder or torque mode, A6 frame, Ethernet and RS-485, EtherNet/IP, webserver and Modbus, 25kA SCCR. Optional EtherCAT, encoder and I/O cards available.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/VFAS3-4900PC>

Technical Specifications

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| Brand | Toshiba |
| Item | Drive |
| Controller Type | High-performance |
| Series | AS3 |
| Voltage Type | AC |
| Nominal Drive Input Voltage | 460 VAC |
| Nominal Drive Output Voltage | 460 VAC |
| Number of Input Phases | 3 |
| Number of Output Phases | 3 |
| Horsepower By Input Phase | 125hp with 3-phase input |
| Amperage Rating | 173A |
| Variable Torque Amperage Rating | 211A |
| Control Mode | V/Hz, FOC, encoder or torque |
| Safe Torque Off (STO) | Yes |
| Temperature Rating | -15 to 50 deg C |
| Enclosure Type | Open frame |
| IP Rating | IP00 |
| Mounting | Panel or wall |
| Frame Size | A6 |
| Dynamic Braking | External dynamic braking unit required |
| Communication Port and Connection Type(s) | <ul style="list-style-type: none"> • (2) Ethernet (RJ45) • (1) RS-485 (RJ45) |
| Port Protocol(s) | <ul style="list-style-type: none"> • EtherNet/IP • webserver • Modbus RTU Slave • Modbus TCP |
| Port Speed(s) | <ul style="list-style-type: none"> • 10/100 Mbps • up to 38.4k baud |
| Input Signal | 4-20 mA, voltage, potentiometer or pulse train input |
| Output Type | PWM output |
| Reverse Capability | Built-in |
| Internally Bypassed | No |

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| Carrier Frequency Range | 1-8 kHz |
| Output Frequency Range | 0.1-590 Hz |
| Number of Analog Input Channels | 3 |
| Number Of Input Channels | 3 |
| Analog Input Signal Type | Current/voltage |
| Number of Non-Isolated Analog Input Commons | 1 |
| Number of Points per Analog Input Common | 3 |
| Input Resolution | 11-bit |
| Input Current Signal Range | 0-20 mA, 4-20 mA |
| Input Voltage Signal Range | +/- 10 VDC |
| Number of Analog Output Channels | 2 |
| Number Of Output Channels | 2 |
| Analog Output Signal Type | Current/voltage |
| Number of Non-Isolated Analog Output Commons | 1 |
| Number of Points per Analog Output Common | 2 |
| Output Resolution | 10-bit |
| Output Current Signal Range | 0-20 mA and 4-20 mA |
| Output Voltage Signal Range | 0-10 VDC |
| Number of Discrete Input Points | 8 |
| Nominal Discrete Input Voltage | 24 VDC |
| Discrete Input Type | Sinking/sourcing |
| Number of Non-Isolated Discrete Input Commons | 2 |
| Number of Points per Discrete Input Common | 4 |

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| Number of Discrete Output Points | 3 |
| Nominal Discrete Output Voltage | 250 VAC and 30 VDC |
| Discrete Output Type | Relay |
| Relay Configuration | (1) Form C (SPDT) relay, (2) Form A (SPST) relays |
| Number of Isolated Discrete Output Commons | 3 |
| Number of Points per Discrete Output Common | 1 |
| Load Current | 2A/point relay |
| Fuse Type | User-supplied external fuse |
| Programming Language | User sequence |
| SCCR Rating | 25kA SCCR |
| Connector Type | Screw terminals |
| For Use With | 3-phase induction and permanent magnet AC motors |
| Includes | DC reactor (built-in) and EMC filter (built-in) |
| Additional Information | Optional EtherCAT, encoder and I/O cards available |

Agency Approvals

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| UL Listed File # | E204788 |
| UL Recognized File # | None |
| UL Hazardous File # | None |
| CE | View CE declarations |
| CSA File # | 231252 |
| RoHS Status | Yes (See CE Doc) |
| EU REACH | View EU REACH document |

Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/2d/VFAS3-4900PC.pdf>
See store item page for other formats.