VFAS3-4450PC Cut Sheet

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Toshiba AS3 series AC high-performance drive, UL Type 1, 460 VAC, 60 hp with 3-phase input, V/Hz, FOC, encoder or torque mode, A5 frame, Ethernet and RS-485, integrated dynamic braking. 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/VFAS3-4450PC

Technical Specifications

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	60 hp with 3-phase input
Amperage Rating	88A
Variable Torque Amperage Rating	106A
Control Mode	V/Hz, FOC, encoder or torque
Integrated EMI Filter	Yes
Safe Torque Off (STO)	Built-in
Temperature Rating	-15 to +50 °C
Enclosure Type	UL Type 1
IP Rating	IP20
Mounting	Panel or wall
Frame Size	A5
Dynamic Braking	Integrated dynamic braking
Communication Port and Connection Type(s)	• (2) Ethernet (RJ45) • (1) RS-485 (RJ45)
Port Protocol(s)	• EtherNet/IP • webserver (non-secure HTTP) • Modbus RTU Slave • Modbus TCP
Port Speed(s)	• 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

Carrier Frequency Range	1–8 kHz
Output Frequency Range	0.1–590 Hz
Number of Analog 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 and 4–20 mA
Input Voltage Signal Range	±10 VDC
Number of Analog 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
Number of Discrete Output Points	3
Nominal Discrete Output Voltage	250 VAC and 30 VDC
Discrete Output Type	Relay

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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
Connector Type	Screw terminals
For Use With	3-phase induction and permanent magnet AC motors
Includes	DC reactor (built-in), EMC filter (built-in) and conduit box
Additional Information	Optional EtherCAT, encoder and I/O cards available.
Dangerous Goods	• Battery Installed: Yes • Packaging Instructions: 970 • UN Number: UN3091 • Hazard Type: Lithium Batteries • Battery Type: Button • Lithium Content: 0.06 • Replacement Battery: D0-MC-BAT • Generic Battery: CR2032

Agency Approvals

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/VFAS3-4450PC.pdf
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