

# VFAS3-4110KPC Cut Sheet



Toshiba AS3 series AC high-performance drive, open frame, 460 VAC, 150hp with 3-phase input, V/Hz, FOC, encoder or torque mode, A6 frame, Ethernet and RS-485, external dynamic braking unit required. 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/VFAS3-4110KPC>

## Technical Specifications

<b>Brand</b>	Toshiba
<b>Item</b>	Drive
<b>Controller Type</b>	High-performance
<b>Series</b>	AS3
<b>Voltage Type</b>	AC
<b>Nominal Drive Input Voltage</b>	460 VAC
<b>Nominal Drive Output Voltage</b>	460 VAC
<b>Number of Input Phases</b>	3
<b>Number of Output Phases</b>	3
<b>Horsepower By Input Phase</b>	150hp with 3-phase input
<b>Amperage Rating</b>	211A
<b>Variable Torque Amperage Rating</b>	250A
<b>Control Mode</b>	V/Hz, FOC, encoder or torque
<b>Safe Torque Off (STO)</b>	Yes
<b>Temperature Rating</b>	-15 to 50 deg C
<b>Enclosure Type</b>	Open frame
<b>IP Rating</b>	IP00
<b>Mounting</b>	Panel or wall
<b>Frame Size</b>	A6
<b>Dynamic Braking</b>	External dynamic braking unit required
<b>Communication Port and Connection Type(s)</b>	<ul style="list-style-type: none"><li>• (2) Ethernet (RJ45)</li><li>• (1) RS-485 (RJ45)</li></ul>
<b>Port Protocol(s)</b>	<ul style="list-style-type: none"><li>• EtherNet/IP</li><li>• webservice (non-secure HTTP)</li><li>• Modbus RTU Slave</li><li>• Modbus TCP</li></ul>
<b>Port Speed(s)</b>	<ul style="list-style-type: none"><li>• 10/100 Mbps</li><li>• up to 38.4k baud</li></ul>
<b>Input Signal</b>	4-20 mA, voltage, potentiometer or pulse train input
<b>Output Type</b>	PWM output
<b>Reverse Capability</b>	Built-in
<b>Internally Bypassed</b>	No

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

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<b>Number of Discrete Output Points</b>	3
<b>Nominal Discrete Output Voltage</b>	250 VAC and 30 VDC
<b>Discrete Output Type</b>	Relay
<b>Relay Configuration</b>	(1) Form C (SPDT) relay, (2) Form A (SPST) relays
<b>Number of Isolated Discrete Output Commons</b>	3
<b>Number of Points per Discrete Output Common</b>	1
<b>Load Current</b>	2A/point relay
<b>Fuse Type</b>	User-supplied external fuse
<b>Programming Language</b>	User sequence
<b>SCCR Rating</b>	25kA SCCR
<b>Connector Type</b>	Screw terminals
<b>For Use With</b>	3-phase induction and permanent magnet AC motors
<b>Includes</b>	DC reactor (built-in) and EMC filter (built-in)
<b>Additional Information</b>	Optional EtherCAT, encoder and I/O cards available.
<b>Dangerous Goods</b>	<ul style="list-style-type: none"><li>• Battery Installed: Yes</li><li>• Packaging Instructions: 970</li><li>• UN Number: UN3091</li><li>• Hazard Type: Lithium Batteries</li><li>• Battery Type: Button</li><li>• Lithium Content: 0.06</li><li>• Replacement Battery: D0-MC-BAT</li><li>• Generic Battery: CR2032</li></ul>

## Agency Approvals

<b>UL Listed File #</b>	E204788
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	231252
<b>RoHS Status</b>	Yes (See CE Doc)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/2d/VFAS3-4110KPC.pdf>  
See store item page for other formats.