

FANUC VFAS3-4750PC Manual

Brand	FANUC
Product Series	FANUC
Product Type	1,

Description

Toshiba VFAS3-4750PC AS3 series AC high-performance drive, UL Type 1, 460 VAC, 100 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.

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 100 hp with 3-phase input

Amperage Rating 145 A

Variable Torque

Amperage Rating 173 A

Control Mode V/Hz, FOC, encoder or torque

Integrated EMI Filter Yes

Safe Torque Off (STO) Yes

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

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 and 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

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 2 A/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)

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