

## INDUSTRIAL COMPONENT DATA

# VZA40P7BAA 3G3Z1359F OMRON V1000 three Phase 380-480VAC (3,4/4,1)Amp (1,1/1,5)KW Vector

Brand: OMRON | Manufacturer Part Number: VZA40P7BAA



|                 |                                    |
|-----------------|------------------------------------|
| Manufacturer    | OMRON                              |
| MPN / Reference | VZA40P7BAA                         |
| Catalog number  | VZA40P7BAA                         |
| Category        | Frequency converter less than 1 kV |
| Minimum order   | 1 unit                             |
| Document ID     | EO-EA9AA9E892                      |
| Generated       | 2026-08-03                         |

## Product Overview

V1000 three Phase 380-480VAC (3,4/4,1)Amp (1,1/1,5)KW Vector

V1000 Three-Phase 400VAC (3.4/4.1)Amp (1.1/1.5)KW Vector

V1000 inverter, 3~ 400 VAC, 1.1 kW, 3.4 A, sensorless vector, max. output freq. 400Hz

## STRUCTURED PRODUCT DATA

## Technical Specifications

| TECHNICAL ATTRIBUTE                                               | VALUE    |
|-------------------------------------------------------------------|----------|
| Mains frequency (EF006783)                                        | 50/60 Hz |
| Type of converter (EF006978)                                      | Other    |
| Degree of protection (NEMA) (EF011959)                            | Other    |
| Degree of protection (IP) (EF005474)                              | IP20     |
| Number of phases input (EF007117)                                 | 3        |
| Number of phases output (EF006998)                                | 3        |
| With PC connection (EF006107)                                     | Yes      |
| Supporting protocol for PROFI-safe (EF007526)                     | No       |
| Supporting protocol for PROFIBUS (EF003052)                       | Yes      |
| Supporting protocol for DeviceNet Safety (EF007520)               | No       |
| Supporting protocol for TCP/IP (EF003050)                         | No       |
| Supporting protocol for other bus systems (EF003062)              | Yes      |
| Supporting protocol for Foundation Fieldbus (EF007522)            | No       |
| Application in domestic- and commercial area permitted (EF007295) | No       |

**CONTINUED**

## Technical Specifications

| TECHNICAL ATTRIBUTE                                              | VALUE  |
|------------------------------------------------------------------|--------|
| 4-quadrant operation possible (EF006803)                         | Yes    |
| Supporting protocol for SafetyBUS p (EF007527)                   | No     |
| Supporting protocol for SERCOS (EF006657)                        | No     |
| With control element (EF001538)                                  | Yes    |
| Supporting protocol for Modbus (EF003057)                        | Yes    |
| Supporting protocol for KNX (EF003055)                           | No     |
| Application in industrial area permitted (EF007294)              | Yes    |
| Supporting protocol for PROFINET CBA (EF007524)                  | No     |
| Supporting protocol for LON (EF003017)                           | No     |
| Supporting protocol for SUCONET (EF003060)                       | No     |
| With optical interface (EF003028)                                | No     |
| Supporting protocol for EtherNet/IP (EF007521)                   | No     |
| Supporting protocol for CAN (EF003053)                           | Yes    |
| Supporting protocol for AS-Interface Safety at Work (EF007519)   | No     |
| Supporting protocol for INTERBUS (EF003054)                      | No     |
| Supporting protocol for Data-Highway (EF003058)                  | No     |
| Supporting protocol for PROFINET IO (EF007525)                   | Yes    |
| Supporting protocol for ASI (EF003051)                           | No     |
| Supporting protocol for DeviceNet (EF003059)                     | Yes    |
| Supporting protocol for INTERBUS-Safety (EF006662)               | No     |
| Integrated breaking resistance (EF007293)                        | Yes    |
| Max. output frequency (EF007350)                                 | 400 Hz |
| Number of HW-interfaces other (EF003027)                         | 0      |
| Number of HW-interfaces parallel (EF003026)                      | 0      |
| Number of interfaces PROFINET (EF006932)                         | 0      |
| Number of HW-interfaces industrial Ethernet (EF003020)           | 0      |
| Max. output at linear load at rated output voltage (EF007364)    | 1.1 kW |
| Relative symmetric net voltage tolerance (EF007453)              | 10 %   |
| Number of HW-interfaces USB (EF003025)                           | 0      |
| Width (EF000008)                                                 | 108 mm |
| Number of HW-interfaces RS-232 (EF003021)                        | 0      |
| Number of HW-interfaces RS-422 (EF003022)                        | 1      |
| Max. output at quadratic load at rated output voltage (EF007366) | 1.5 kW |

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## Technical Specifications

| TECHNICAL ATTRIBUTE                                   | VALUE    |
|-------------------------------------------------------|----------|
| Number of HW-interfaces RS-485 (EF003023)             | 1        |
| Nominal output current I2N (EF009561)                 | 4.1 A    |
| Number of HW-interfaces serial TTY (EF003024)         | 0        |
| Height (EF000040)                                     | 128 mm   |
| Max. output voltage (EF009560)                        | 480 V    |
| Depth (EF000049)                                      | 137.5 mm |
| Relative symmetric net frequency tolerance (EF007454) | 5 %      |
| Mains voltage (EF006780)                              | 380 V    |

## Classification & Catalog Path

|              |                                     |
|--------------|-------------------------------------|
| Catalog path | OMRON > Frequency inverters > V1000 |
|--------------|-------------------------------------|

## Additional Product Information

### Specifications

Inverter control method Open loop V/f, Open loop vector

Drive supply voltage 400 V three phase

Max. motor output at constant torque (HD) 1.1 kW

Max. motor output at variable torque (ND) 1.5 kW

Built in EMC filter

Degree of protection (IP) IP20

Finless type

Compatible motor type Induction or asynchronous motor, Permanent magnet motor

Regenerative solutions As inverter option

Communication port(s) MODBUS Slave, Serial RS-422, Serial RS-485

Communication option(s) CANopen, DeviceNet Slave, EtherCAT Slave, EtherNet/IP, MECHATROLINK II Slave,

MODBUS/TCP, POWERLINK, PROFIBUS DP Slave, PROFINET Slave

Height 128 mm

Width 108 mm

Depth 137.5 mm

Weight 1400 g

### Accessories

SI-EN3/V EtherNet/IP option board for V1000 inverter

SI-EP3/V V1000 option card - PROFINET

SI-ES3/V Ethercat option board for V1000

SI-N3/V DeviceNet option board for V1000 inverter

SI-P3/V PROFIBUS DP option board for V1000 inverter

ETIM for 234253 Low-voltage industrial controls and switchgear (EC001857)

Feature Name

Feature Value

Mains frequency (EF006783)

50/60 Hz

Type of converter (EF006978)

Other

Degree of...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / VZA40P7BAA with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

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