## Standard Specifications

<table>
<thead>
<tr>
<th>Applicable motor (kW)</th>
<th>VAS2015</th>
<th>VAS2022</th>
<th>VAS2037</th>
<th>VAS2055</th>
<th>VAS2075</th>
<th>VAS2110</th>
<th>VAS2150</th>
<th>VAS2185</th>
<th>VAS2220</th>
<th>VAS2300</th>
<th>VAS2370</th>
<th>VAS2450</th>
<th>VAS2550</th>
<th>VAS2750</th>
<th>VAS3020</th>
<th>VAS3250</th>
<th>VAS3427</th>
<th>VAS3481</th>
<th>VAS3550</th>
<th>VAS3616</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>0.4</td>
<td>0.75</td>
<td>1.5</td>
<td>2.2</td>
<td>4.0</td>
<td>5.6</td>
<td>9.3</td>
<td>12.7</td>
<td>16.5</td>
<td>23.5</td>
<td>31.7</td>
<td>39.2</td>
<td>46.3</td>
<td>61.5</td>
<td>74.5</td>
<td>88.0</td>
<td>106.0</td>
<td>145.0</td>
<td>173.0</td>
<td>211.0</td>
</tr>
<tr>
<td>A2</td>
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### Precautions

* Please read the instruction manual before installing or operating the inverter unit.

* The product is intended for general use in industrial applications. It cannot be used in applications where may cause serious accidents or damages even if product is failure, or please use in environment where safety equipment is applicable or a backup circuit device is provided outside the system.

* Toshiba, its subsidiaries, affiliates or agents, shall be liable for any physical damages, including, without limitation, malfunction, anomaly, breakdown or any other problem that may occur to any apparatus in which the Toshiba inverter is incorporated or in any equipment that is used in combination with the Toshiba inverter. For such Toshiba, its subsidiaries, affiliates or agents are liable for any compensatory damages resulting from such utilization, including compensation for special, indirect, consequential, punitive or exemplary damages, or for loss of profit, income or data, even if the user has been advised or approved of the likelihood of the occurrence of such loss or damages.

### External dimensions and weight

| Applicable motor (kW) | VAS2015 | VAS2022 | VAS2037 | VAS2055 | VAS2075 | VAS2110 | VAS2150 | VAS2185 | VAS2220 | VAS2300 | VAS2370 | VAS2450 | VAS2550 | VAS2750 | VAS3020 | VAS3250 | VAS3427 | VAS3481 | VAS3550 | VAS3616 |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Width (mm)           | 126     | 226     | 291     | 326     | 444     | 576     | 693     | 830     | 830     | 830     | 830     | 830     | 830     | 830     | 830     | 830     | 830     | 830     | 830     |
| Height (mm)          | 350     | 693     | 932     | 932     | 1110    | 1600    | 2040    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    | 2270    |
| Depth (mm)           | 202     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     | 268     |
The high performance TOSHIBA VF-AS3 achieves high speed/real time network communication with Built-in Ethernet - Modbus TCP without any optional devices, ready to meet the requirement of modern automation with IoT and Industry 4.0. Also, VF-AS3 with TOSHIBA excellent motor control technology and electrical circuit design helps for all your applications.

**Built-in Ethernet**
VF-AS3 has two ports IF of Ethernet as standard. Data of operating conditions and Dedicated data source can be stored to Big data and Cloud storage by Ethernet.

**Real Time Clock**
Calendar / Time Stamp function
Built-in Real time clock, Calendar and Event time stamp functions help operating data collection with actual time.

**Web Server**
VF-AS3 has a built-in Web Server function, and it can be easily accessed and manage the operating condition remotely from your PC or Smart Phone/tablet devices.

**QR Code®**
For the advanced information and the event of drive fault, VF-AS3 displays the QR codes, which will provide immediate access to a dedicated web link for support and maintenance.

**Video Guidance**
For the installation, setup and maintenance, the video guidance is available with web support.

**Remote Sensor Monitoring**
The sensor which is equipped in the machine and equipment, can be connected with VF-AS3 and the status can be monitored by VFD network communication.

**Environment free design**
VF-AS3 can meet IEC61000-3-12 without external reactor (THD<=48%) and EMC directive of IEC61800-3 Category C2/C3 (400V Class only).
- Environmental protection is improved for IEC60721-3-3 dust 3S3 and chemical 3C3 (Size A6 or less).

**Four Built-in PID functions**
- Two PID functions for motor drive and two independent PID functions are available for the combination of valve and sensor control.

**Safety design meets IEC standard**
- The safety standards with STO (Safe Torque Off) function, it will be highly reliable to cut-off in the emergency conditions.
- In addition, the safety functions of SS1, SOS, SS2, SBC, SLS and SDI also available as options.
- Include with the terminal box for UL Type1 (Size A5 below).

**Built-in Pump control**
- Maximum Ten pumps
  - The VF-AS3 can drive multiple pump motors with VFD control and three commercial power (Maximum one VFD drive with nine commercial power motor combinations).

**Built-in Position control**
VF-AS3 has sensor / sensor-less position control with Point to point, Pulse input and Orientation, which is suitable for the application such as processing machine for high precision control.

**PM motor drive (w/, w/o sensor)**
- VF-AS3 can drive not only 3-phase induction motors but also Interior Permanent Magnetic Motor (IPM) and Surface Permanent Magnetic Motor (SPM) with / without feedback sensor.

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**High-performance Inverter**
**TOSVERT VF-AS3**

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**Applications**
- Oil&Gas : Jack pumps/Compressor
- Mining : Conveyor/Crushers/Compressor
- Material handling : Conveyor/Graines/Hotel
- Chemical : Pump/Mixers/Centrifuges/Fan
- WWW : Pump/Centrifuges/Fan

**Voltage class**
HD 0.4 0.75 1.5 2.2 4 5.5 7.5 11 15 18.5 22 30 37 45 55 75 90 110 132 160 200 220 280
ND 0.75 1.5 2.2 4 5.5 7.5 11 15 18.5 22 30 37 45 55 75 90 110 132 220 250 280 315

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