VF-P7 saves energy, automatic energy saving mode saves even more

- If operated in Constant Torque mode, the VF-P7 can be used as a general-purpose inverter. (Overload current rating: 120%-1min)
- Fin can be attached externally. (Optional for 200V 18.5 to 30kW models and 400V 18.5 to 37kW models)
- Control circuit I/O logic (Sink/Source) switching function enables to easily switch the I/O logic and connect various types of programmable controllers.

Features

- Automatic energy saving function
  Ensures efficient energy saving by limiting the current to the motor.
- Momentary Power failure measures
  The auto-restart function smoothly restarts the coasting motor. Ride-Through Control mode enable to keep running on regenerative energy by the motor in case of a momentary power failure.
  Note: Depending on the inertia or loading conditions, it can sometimes be difficult for the machine to keep operating.
- Commercial Power/Inverter switching circuit
  VF-P7 has a sequence to switch them.
- PID control
  VF-P7 has PID control function for process control of air volume, discharge, pressure, etc.
- Preset-speed operation
  A maximum of 15 speeds are selectable.

Options

- AC/DC Reactor
- Radio noise reduction filter/EMI filter
- Breaking resistor/unit
- Motor noise reduction filter
- Motor end surge voltage suppression filter
- Extended panel/Parameter writer
- Remote control panel
- Communication options
- Board type options
- Add-on module options
- Protection options
### Standard specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Standard specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable voltage</td>
<td>200V</td>
</tr>
<tr>
<td>Inverter type</td>
<td>VFP7-2185P</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>W 245 H 390 D 207</td>
</tr>
<tr>
<td>Approx. weight (kg)</td>
<td>16</td>
</tr>
<tr>
<td>Voltages</td>
<td>200 to 220V - 50Hz, 200 to 230V - 60Hz</td>
</tr>
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</table>

### External dimensions and weight

<table>
<thead>
<tr>
<th>Voltage class</th>
<th>Applicable voltage</th>
<th>Inverter type</th>
<th>Dimensions (mm)</th>
<th>Approx. weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200V</td>
<td>200V</td>
<td>VFP7-2185P</td>
<td>W 245 H 390 D 207</td>
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<tr>
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<td>220V</td>
<td>VFP7-2220P</td>
<td>W 305 H 555 D 197</td>
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<tr>
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<td>230V</td>
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<td>240V</td>
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<td>260V</td>
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<td>270V</td>
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<td>W 510 H 950 D 460</td>
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<td>290V</td>
<td>VFP7-2290P</td>
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<td>300V</td>
<td>VFP7-2300P</td>
<td>W 510 H 950 D 460</td>
<td>92</td>
</tr>
</tbody>
</table>

### Standard connection

Ex. sink logic

- 22kW and smaller models

200V models, (18.5~22kW)
- 3-phase 200 to 220V - 50Hz
- 3-phase 200 to 230V - 60Hz

400V models, (18.5~22kW)
- 3-phase 380 to 460V - 50Hz
- 3-phase 380 to 460V - 60Hz

To users of our inverters:

Our inverters are designed to control the speeds of three-phase induction motors for general industry.

### SAFETY PRECAUTIONS

- Read the instruction manual before installing or operating the inverter unit and store it in a safe place for reference.
- When using our inverters for equipment such as nuclear power control equipment, aviation and space flight control equipment, traffic equipment, and safety equipment, and there is a risk that any failure or malfunction of the inverter could directly endanger human life or cause injury, please contact our headquarters, branch, or office printed on the front and back covers of this catalogue. Such applications must be studied carefully.
- When using our inverters for critical equipment, even though the inverters are manufactured under strict quality control always fit your equipment with safety devices to prevent serious accident or loss should the inverter fail (such as failure to issue an inverter trouble signal).
- Do not use our inverters for any load other than three-phase induction motors.
- None of 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 to any equipment that is used in combination with the Toshiba inverter. Nor shall Toshiba, its subsidiaries, affiliates or agents be liable for any compensatory damages resulting from such utilization, including compensation for special, indirect, incidental, consequential, punitive or exemplary damages, or for loss of profit, income or data, even if the user has been advised or apprised of the likelihood of the occurrence of such loss or damages.

For further information, please contact your nearest Toshiba Representative or International Operations-Producer Goods.

The Information in this brochure is subject to change without notice.

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**Notes:**

1. Capacity is calculated at 220V for the 200V models and at 440V for the 400V models.
2. The models with a capacity of 30kW or more have uncovered wide-opened wiring holes and the unit has no space in it which is large enough to bend external cables. So, use an optional wiring hole cover when installing the unit outside.
3. Each model has three through-holes for wiring of the main input circuit, main output circuit and control circuit. Seal them properly after wiring.
4. The models with a capacity of 30kW or more have uncovered wide-opened wiring holes and the unit has no space in it which is large enough to bend external cables. So, use an optional wiring hole cover when installing the unit outside.
5. *+10% when the inverter is used continuously (load of 100%).
6. The max. output voltage is the same as the input power supply voltage.

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**In Touch with Tomorrow**

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