## **Useful function for** wide range applications

External parameter writer

Side-by-side installation

Ambient temperature: 60°C

Easy setting mode Application easy setting

Password lock

Long lifetime

PM motor

Built-in noise filter Random mode

Energy saving mode

High torque drive

Learning function

Override function

ACC/DEC pattern

DC brake function

**Dwell function** 

PID control

Sleep function

**Bumpless function** 

**Network communication** 

Panel display control (Using the communication)

Control power supply can supplied from another input

Parameter adjustment

by Analog input

(S-pattern) function

Auto-restart control

Auto-tuning

Easy setting Simple operation

Eco Design

**Energy savings &** 

Powerful operation

**Applicability** 

**Expandability of** the system

VF-S15 for machinery and facilities in various industrial sector and application



**Function & Advantage** 

Parameter can be set without power supply.

6 parameters for particular usages are available.

Maximum ambient tenperature: 60°C

Designed for 10 years lifetime design

optimum current that fits the load

Show most frequently used parameters in EASY mode.

A four-digit password is required to change the parameters if necessary.

Built-in EMC noise filter comply with European EMC Directive

Two or more inverter units can be installed in close proximity next to each other

Improves hearing impression by changing the pattern of the low carrier frequency

PM motor can drive for high efficiency, downsizing and lightening.(For variable torque)

Energy can be saved in all speed areas by detecting load current and following the

from motor startup to a predenfined, desired motor operating speed. This auto-tuning function allows you to set the motor constant easily, which

needs to be set when operating in vector control or PM motor drive

multiple inverters are used to operate one machine

To use temperature, pressure, flow and motion control

operating frequency at Remote mode move to Local mode.

Parameters adjustable from external analog input

Toshiba authorized distributors in your country.

according to the machine characteristics and its applications.

Suspends acceleration and deceleration to match the timing of brake

Additional energy saving can be realized by stopping at lower limit setting

Built-in RS485. Can be connected to the common industrial communication

VF-S15 supports sensorless vector control mode to generate stable, high-torque power

Setting and storing to memory required parameter while performing actual operation is also

Preventing loads from concentrating at a specific motor because of a load imbalance when

To minimize the shocks caused in starting and stopping and change the ACC/DEC rate

Detects the rotating speed rotational direction of the motor during coasting at the event of

When switching from Remote mode to Local mode, the status of start and stop, and

Contents of your requests, such as condition, can be viewed on the inverter's panel

Control power supply is supplied from the inverter's main circuit and also supplied by another input. It can maintain the output signal and trip indication, when the inverter become trip. For more details of each functions, please confirm with Toshiba representative offices or

momentary power failure, and then after power has been restored, restarts the motor smoothly

A large braking torque can be obtained by applying a direct current to the motor

	Machinery and Facilities											
Material handling (Horizontal)	Material handling (Vertical)		Fans & Pumps	Food processing machinery	Packaging machinery	Daily-life- related machinery	Medical equipment	Textile line	Chemical machinery	Printing machinery	Machine tools Processing machinery	Semiconductor facility equipment
Conveyor	Crane		Pumps	Food machines	Band tighteners	Car washing machine	X-ray machines	Textile machines	Mixers	Printing presses	Machine tools	
	Hoist		Fans/blowers			Commercial ironing boards	Treadmill					
√: ideal √√: applicable	Automatic vertical storage units		Compressor	Food machines     Food slicers     Bakery equipment     Tea-making machines     Driers	<ul> <li>Trimming machines</li> </ul>	Raw garbage disposal     Shredder     Shutter	Nursing beds     Water beds     Massage machines	Weaving machines     Knitting machines     Dyeing/finishing machines     sewing machines	Painting machines	Binding madchines	Cutters     Welding machines     Grinding machines     Woodworking machinery	Semiconductor production equipment     LCD production equipment
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Torque limit	Low voltage operation function, Shock monitoring function		Fire control enables forced operation					Traverse function Synchronized deceleration				