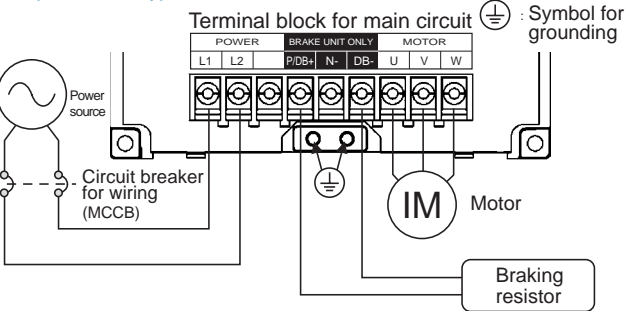
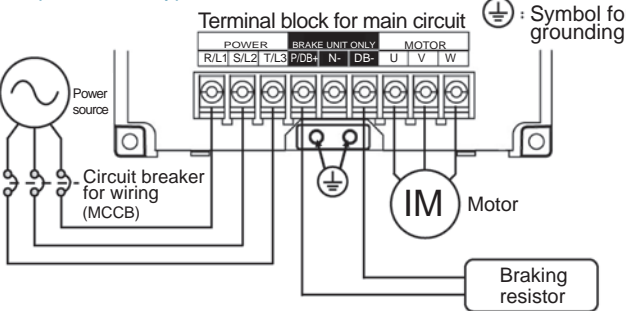


Terminals for Main Circuit

● 1-phase 200V type 0.2 to 2.2kW



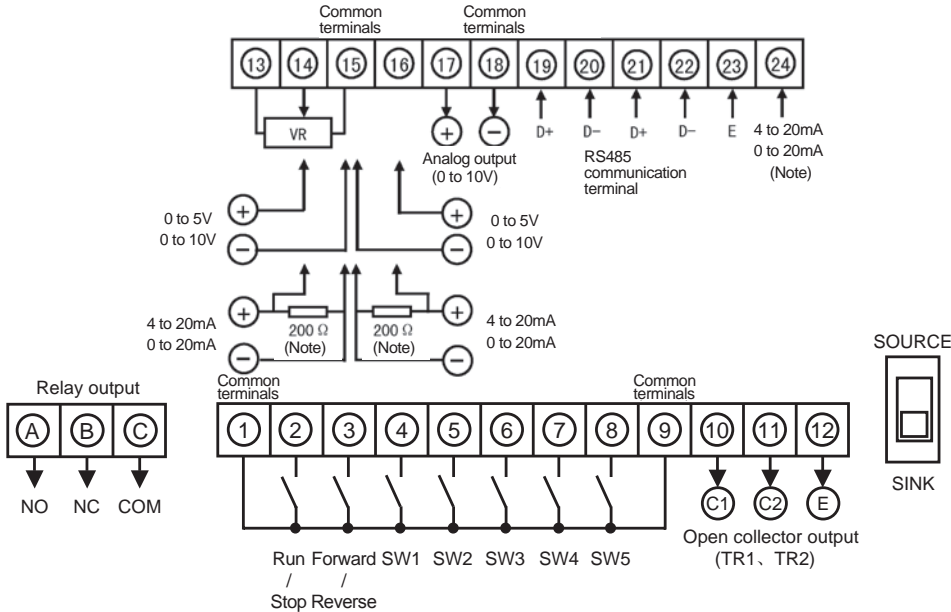
● 3-phase 400V type 0.75 to 15kW



● Functions of Terminals for Main Circuit

Terminal No.	Terminal Name	Explanation of terminal function
R/L1, S/L2, T/L3	Power supply for Main circuit	For 1-phase 200 V type, connect to terminal L1 and L2.
U,V,W	Inverter output	Connect to 3-phase motor.
P/DB+, DB-	Braking resistor connection	Connect to braking resistor.
N-	Internal DC voltage (negative)	Negative terminal of internal DC voltage.
⊕ ×2	Ground	Ground terminal. 1-phase 200 V: ground resistance 100Ω or less 3-phase 400 V: ground resistance 10Ω or less Ground the neutral of power source.

Control Circuit Terminal



● Note) a built-in 200 Ω resistor should be set between terminal No.24 and a common terminal. If analog input signal of 4 to 20mA/0 to 20mA is used, external resistor connection can be eliminated by connecting terminal No.24 to No.14 or No.16. For external connection, it is recommended to use a resistor of 200 Ω, 1/4 W.

- Specification of potentiometer for frequency setting: select a potentiometer of "10 kΩ, 1/4 W or higher" rating.
- Relay output specification: 1c contact (contact capacity 230V AC, 0.3A; 30V DC 0.3A resistive load).
- Open-collector Output specification: max. rating 50 VDC/50 mA.
- Please refer to the User Manual for the SOURCE status terminal arrangement diagram and the functions of various terminals.

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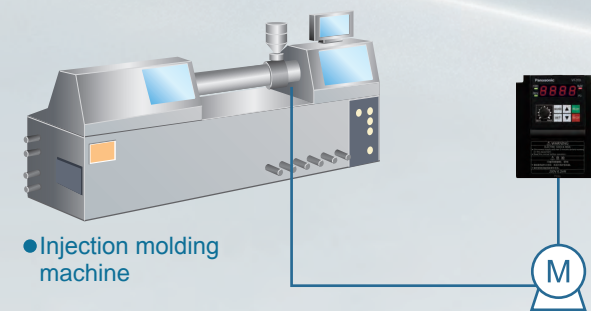
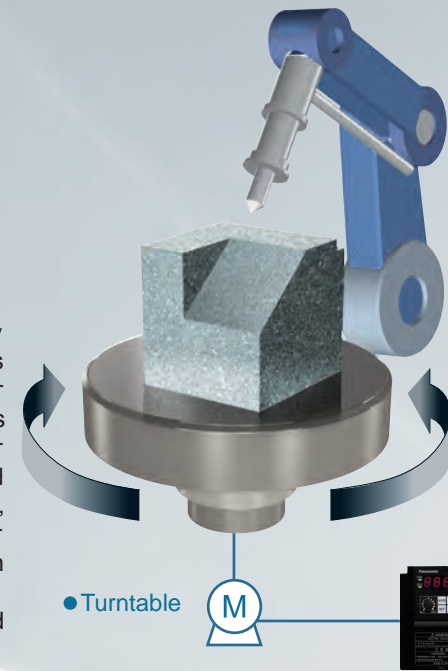
High-efficiency Operation,
Outstanding Performance



Powerful

Use vector control to output higher torque at low-speed

- Higher torque can be generated at low-medium speed (1Hz→150%) by making use of our Company's original vector control technology. Equipments with great fluctuation in loads and requiring a sufficient starting torque, for example conveyor belts and turntables on which there are large numbers of semi-finished products, can be operate smoothly. In addition, the vector control technology also plays a significant role in the operation of the canned foods caulking machines, punching machines, injection molding machines, as well as other machines that require low-speed torque. Inverter with higher capacity is not needed in this case, which contributes greatly to the reduction of cost and installation space.
- It is also equipped with auto-tuning function which can conduct simple and appropriate parameter settings thus giving a full play to the motor characteristic.



Easy

Apply large-scale operation panel to further improve the operability

- Highly visible 7-segment large format display;
- Ease-to-use large volume knob;
- Easy recognizable operation key.



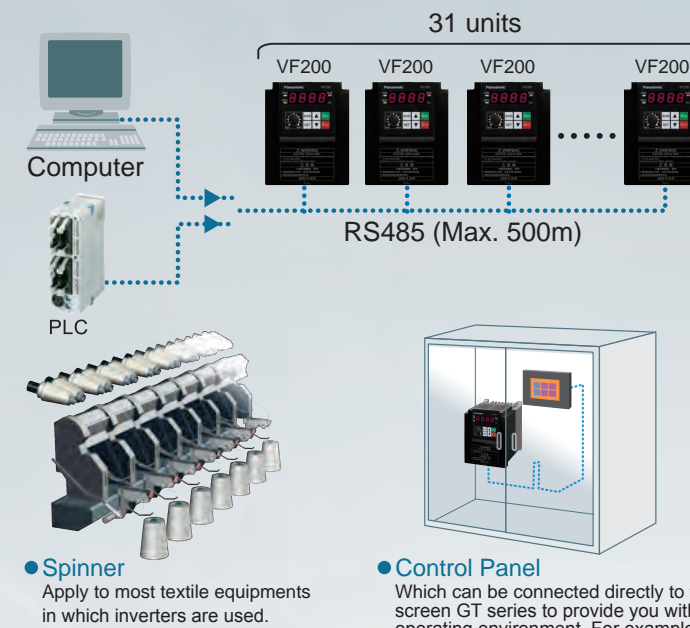
Detachable operation panel

- Parameter can be easily copy to another unit.
- Have a dimension of 72mm×72mm, it is attractive even if it is mounted on the panel surface.
- Standard LAN cables (max. 5m), which can be bought easily from the market, are used to realize the connection between the operation panel and the host. It has the characteristics of ease purchase and affordable price.

• Copy parameters



• Operation panel can be prolonged



Network

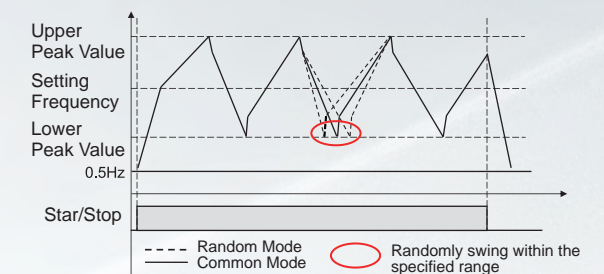
Equip with standard RS485 Serial Communication Interface

- Can control up to 31 VF200 units via the RS485 serial communication lines. VF200 is also installed with two protocols : Modbus-RTU and MEWTOCOL, that allow control, data collection/monitoring via computer or PLCs.
- The FP series PLCs produced by our Company support both Modbus-RTU and MEWTOCOL.

Corresponding Functions for Wire Winding Machines

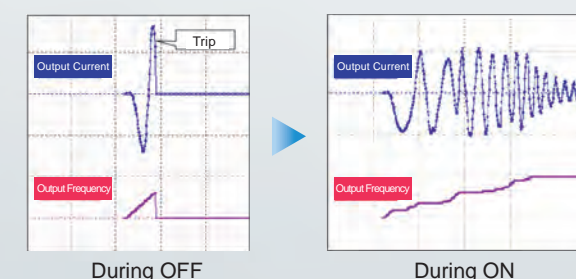
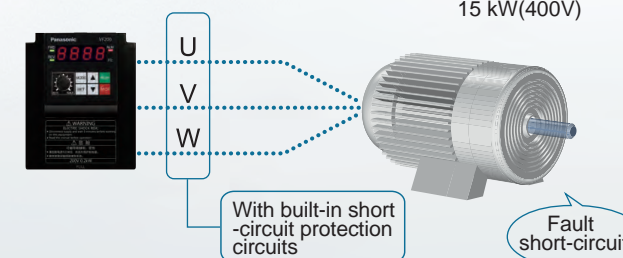
• Repeated operation around the Winding Spindle

The winding mode control function operates at the frequencies of a triangle wave as shown below.



• New Operation Mode

- Random swing mode: can effectively prevent the accumulation of wires at the same point
- Winding Wire Length Stop Mode: it will automatically stop after the length of the winding wire had accumulated to the specified value.
- Pulse Input Controlled length Calculation Mode: easily indicate the accumulated length of the winding wire, and the results can be transmitted.
- Two-point Mode: the reference frequency can be ultimately changed to a secondary frequency with the smooth running of the winding wire.



Tough

Incorporate with Output Short-Circuit Protection Circuits

- VF200 can detect an over-current resulting from a short circuit due to a fault in the electric motor as a result of over-load, in this case, it will instantaneously disconnect the output to protect the circuit, therefore, you can rest assured that it is safe.

Equip with High-speed Current Limiting Protection function

- VF200 will not trip and keep operating even if instantaneous over-current is caused by a change in loads, thus improve the productivity. It is also applicable to the rapid increase in the speed of a heavy turntable and the stirring of materials with a higher viscosity such as bread and noodles.