

Panel and operation procedure



Note: The above photo only shows the front body of the VF-nC3, and its front cover is removed for an explanatory purpose. Be sure to put the VF-nC3 in use with its front cover.

TOSVERT™ VF-nC3

Power on (setup parameter)

- When power on the inverter for the first time, **SEt** is blinking.
- Select an area code by the setting dial.
JP | USA | ASIA | EU
- Press the center of the setting dial to confirm your change. When **inIt** is displayed and then **0.0**, you finish setting the setup parameter.

Values set by each setup parameter

Title	Function	EU (Mainly in Europe)	USA (Mainly in North America)	ASIA (Mainly in Asia/Oceania)	JP (Mainly in Japan)
FH	Max. frequency	50.0(Hz)	60.0(Hz)	50.0(Hz)	80.0(Hz)
UL/L/FL/F17	Frequency setting	50.0(Hz)	60.0(Hz)	50.0(Hz)	60.0(Hz)
F204	Frequency of V1 input point2	50.0(Hz)	60.0(Hz)	50.0(Hz)	60.0(Hz)
UL/L/F171	Base frequency voltage 18.2	230(V)	230(V)	230(V)	200(V)
F127	Sink/source switching	100 [Source logic] (Positive common) (Common : P24) P24 F.R.S1.S2	0 [Sink logic] (Negative common) (Common : CC)		
F307	Power voltage compensation (Output voltage limit)	2	2	2	3
F417	Rated motor speed	1410(min ⁻¹)	1710(min ⁻¹)	1410(min ⁻¹)	1710(min ⁻¹)

Monitor display

The LEDs on the operation panel display the following symbols indicate operations and parameters.

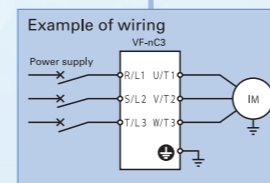
LED(number)

0	1	2	3	4	5	6	7	8	9	-
0	1	2	3	4	5	6	7	8	9	-

LED(alphabet)

Aa	Bb	C	c	Dd	Ee	Ff	Gg	H	h	I	i	Jj	Kk	Ll
R	b	L	c	d	E	F	G	H	h	i	j	U		L
Mm	Nn	O	o	Pp	Qq	Rr	Ss	Tt	Uu	Vv	Ww	Xx	Yy	Zz
n	n	0	a	p	q	r	s	t	u	v	w	x	y	z

Panel and operation procedure



Operation

- Turn on the power. **0.0** is displayed.
- Operates VF-nC3 at the frequency set by the setting dial.
- Changes the output frequency.
- Decelerates and stops the motor.

Monitoring

- Displays operation frequency.
- Displays the motor rotating direction.
- Displays operation frequency command value.
- Displays output current (%/ampere)
- Displays operation frequency (returns to the beginning).

Setting

- Turn on the power. **0.0** is displayed.
- Displays "RUH".
- Displays "ACC".
- Displays the setting value.
- Displays "ACC", and the setting value alternately, and then the setting is completed.*

*If you press the center of the setting dial without changing the setting, the next parameter ("dEC") is displayed.

Item displayed	Panel operated	LED display	Description
Operation frequency *1		50.0	The operation frequency is displayed (Operation at 50Hz). (When standard monitor display selection F 7.10 is set at 0 [operation frequency])
Parameter setting mode	MODE	RUH	The first basic parameter "RUH" (history function) is displayed.
Direction of rotation	MODE	F _r -F	The direction of rotation is displayed. (F _r -F : forward run, F _r -r : reverse run)
Operation frequency command *1		F50.0	The operation frequency command value (Hz/free unit) is displayed. (In case of F 7.14=2)
Output current *1		C 80	The inverter output current (load current) (%/A) is displayed. (In case of F 7.12=1)
Input voltage *1		y 100	The inverter input voltage (DC detection) (%/V) is displayed. (In case of F 7.13=3)
Output voltage *1		P 100	The inverter output voltage (%/V) is displayed. (In case of F 7.14=4)
Inverter load factor *1		L 70	The inverter load factor (%) is displayed. (In case of F 7.15=2)
Operation frequency *1		o50.0	The operation frequency (Hz/free unit) is displayed. (In case of F 7.16=0)
Input terminal		R ...	The ON/OFF status of each of the control signal input terminals (F, R, S1, S2, V1) is displayed in bits. ON : OFF :
Output terminal		0 ..	The ON/OFF status of each of the control signal output terminals (OUT and FL) is displayed in bits. ON : OFF :

Item displayed	Panel operated	LED display	Description
Logic input terminals setting		L-50	Logic setting by F127 is displayed. L-50 : Source logic L-5 : Sink logic
CPU1 version		u 101	The version of the CPU1 is displayed.
CPU2 version		u c 01	The version of the CPU2 is displayed.
Past trip 1		0C3 ⇐1	Past trip 1 (displayed alternately) *2
Past trip 2		0H ⇐2	Past trip 2 (displayed alternately) *2
Past trip 3		0P3 ⇐3	Past trip 3 (displayed alternately) *2
Past trip 4		nErr ⇐4	Past trip 4 (displayed alternately) *2
Parts replacement alarm information		n ...	The ON/OFF status of the parts replacement alarm of the cooling fan, circuit board capacitor and main circuit capacitor, and cumulative operation time are displayed in bits. ON : OFF :
Cumulative operation time		t 0.10	The cumulative operation time is displayed. (0.01=1 hour, 1.00=100 hours)
Default display mode	MODE	50.0	The operation frequency is displayed (Operation at 50Hz).

*1 These monitor items can be selected by setting parameters F701 to F716.(F720).
*2 Details on a past trip (of trips 1 to 4) can be displayed