

Basic Guide

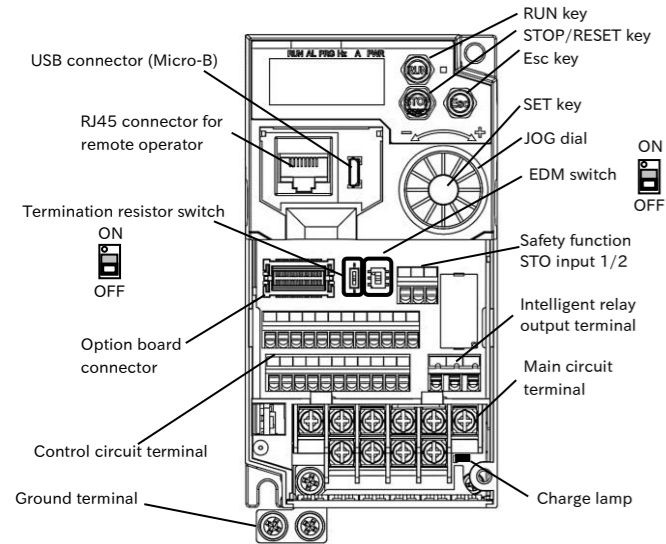
Hitachi Inverter WJ-C1

NT3611AX

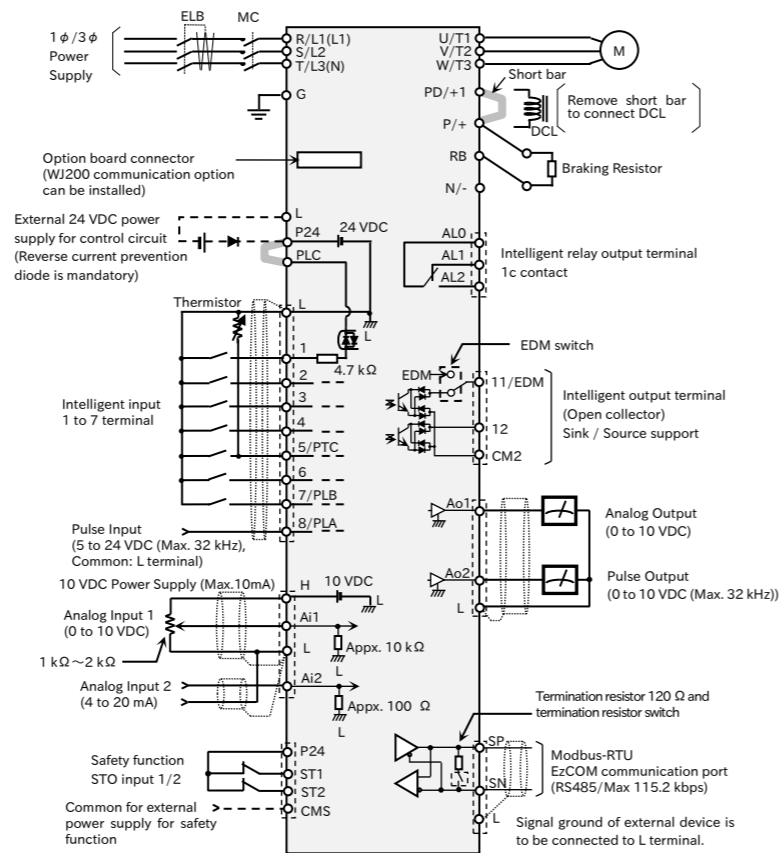
Thank you for purchasing WJ series C1 (WJ-C1) Inverter. This is a Basic Guide that explains the handling, maintenance, etc. of the WJ-C1. The Basic Guide contains only the minimum information for handling. Please be sure to read the Basic Guide, as well as the WJ-C1 User's Guide, which contains detailed instructions, to use it correctly. Please obtain the User's Guide from the one of those listed in Contact on the back side of this sheet.

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Name of Parts

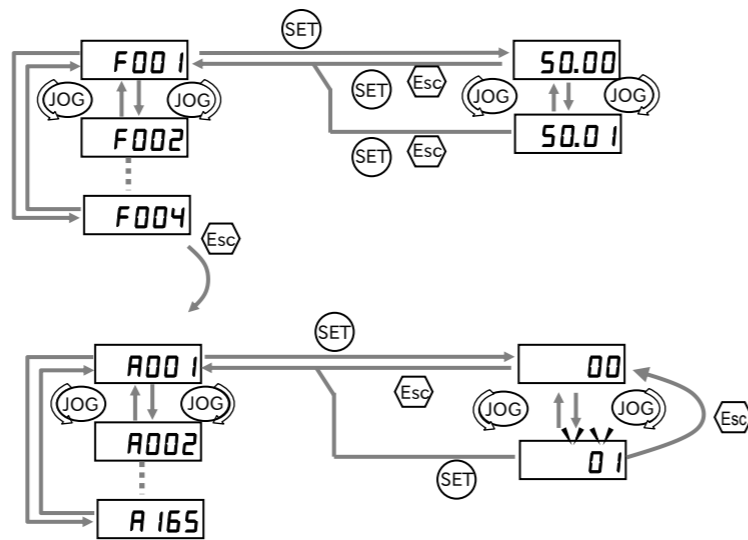


Standard Connection Diagram



Key and JOG dial

Name	Function code display	Data display
Esc key	Moves to the next function code group.	Cancel and returns to the function code display.
SET key	Moves to the data display.	Fixes and saves the data and back to the function code display.
JOG dial	Increases or decreases the function code and data value.	



Name	Action
RUN key	RUN from keypad
STOP/RESET key	(in RUN mode) Decelerate and stop the inverter. (in TRIP mode) Reset from a tripped alarm of inverter.

Quick Start Essential Parameters

Parameters mentioned in the following instruction

F001	Output frequency setting or monitor
F002	Acceleration time 1 setting or monitor, 1st-motor
F003	Deceleration time 1 setting or monitor, 1st-motor
A001	Frequency input source selection, 1st-motor
A002	RUN command input source selection, 1st-motor
A003	Base frequency, 1st-motor
A004	Maximum frequency, 1st-motor
A082	Motor rated voltage, 1st-motor
H003	Async. Motor capacity, 1st-motor
H004	Async. Motor number of poles, 1st-motor
b012	Electronic thermal level, 1st-motor
b091	STOP mode selection

To Set Motor Data

- Press Esc key repeatedly until H-group is displayed.
- Turn JOG dial to select "H003".
- Press SET key.
- Turn JOG dial to select Motor Capacity.

0.1/ 0.2/ 0.4/ 0.55/ 0.75/ 1.1/ 1.5/ 2.2/
3.0/ 3.7/ 4.0/ 5.5/ 7.5/ 11.0/ 15.0/ 18.5 [kW]

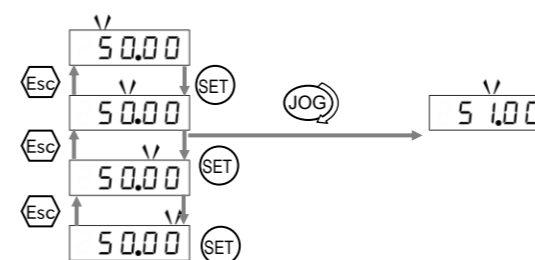
H003	Async. Motor capacity, 1st-motor
H004	Async. Motor number of poles, 1st-motor
A003	Base frequency, 1st-motor
A004	Maximum frequency, 1st-motor
A082	Motor rated voltage, 1st-motor

To Set the Frequency Source

- Press Esc key repeatedly until A-group is displayed.
- Turn JOG dial to select "A001".
- Press SET key.
- Turn JOG dial to select "Frequency Source".

00	External operator POT
01	Control terminal
02	Parameter setting
03	Modbus communication
04	Option
06	Pulse input
07	Program function (EzSQ)
10	Calculation function result

- Press SET key.
- (Tips)
Press and hold SET key to be in the mode to edit digits by digits. Press Esc to increment and SET to decrement to select digit and then JOG to set that digit.



To Set the Run Command Source

- Press Esc key repeatedly until A-group is displayed.
- Turn JOG dial to select "A002".
- Press SET key.
- Turn JOG dial to select "Run Command Source".

01	Control terminal
02	Keypad (RUN-key)
03	Modbus communication
04	Option

- Press SET key.

To Set the Output Frequency Using JOG dial

- Press Esc key repeatedly until F-group is displayed.
- Turn JOG dial to select "F001".
- Press SET key.
- Turn JOG dial to set output frequency.

0.00/
"Minimum frequency" to "Maximum frequency"

- Press SET key.

To Set the Acceleration and Deceleration time

- Press Esc key repeatedly until F-group is displayed.
- Turn JOG dial to select "F002".
- Press SET key.
- Turn JOG dial to set acceleration time.

0.00 to 999.99/ 1000.0 to 3600.0 [s]

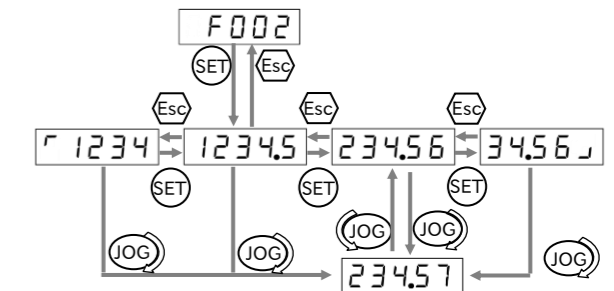
- Press SET key.

- Repeat the above to set following the parameter listed below.

F003	Deceleration time 1 setting or monitor, 1st-motor
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(Tips)

For numbers with 5 digits or more, Esc key and SET key can switch the digits to be displayed.



To Set the Stop Mode

- Press Esc key repeatedly until b-group is displayed.
- Turn JOG dial to select "b091".
- Press SET key.
- Turn JOG dial to set stop mode.

00	Deceleration stop
01	Free run stop

- Press SET key.

To Set the Electronic thermal level

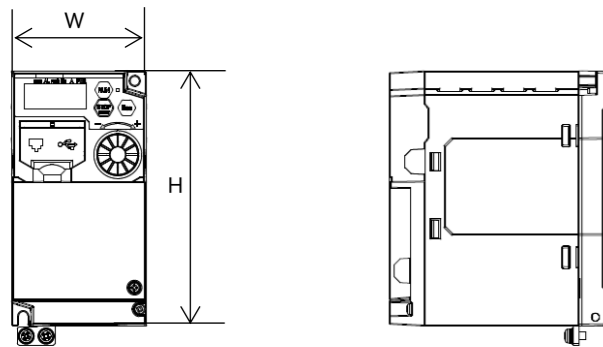
- Press Esc key repeatedly until b-group is displayed.
- Turn JOG dial to select "b012".
- Press SET key.
- Turn JOG dial to set electric thermal level.

(0.20 to 1.00) × Rated current [A]

- Press SET key.

Installation and Wiring

Dimensions



	W (mm)	H (mm)	D (mm)
A1			109
A2	68	128	122.5
A3			145.5
B1	108	128	143.5
B2			170.5
C	140	128	170.5
D	140	260	155
E	180	296	165
F	220	350	175

	0.1	0.2	0.4	0.75	1.5	2.2	3	3.7	4	5.5	7.5	11	15
1φ200V	A1	A1	A2	B2	B2	B2	-	-	-	-	-	-	-
3φ200V	A1	A1	A2	A3	B2	B2	-	C	-	D	D	E	F
3φ400V	-	-	B1	B2	B2	B2	B2	-	C	D	D	E	E

Weight (kg)

	0.1	0.2	0.4	0.75	1.5	2.2	3	3.7	4	5.5	7.5	11	15
1φ200V	1.0	1.0	1.1	1.6	1.8	1.8	-	-	-	-	-	-	-
3φ200V	1.0	1.0	1.1	1.2	1.6	1.8	-	2.0	-	3.5	3.5	4.5	6.5
3φ400V	-	-	1.5	1.8	1.8	1.8	2.0	-	2.0	3.5	3.5	4.5	4.5

