



Small High-Performance Vector Control AC Inverter *EI-650 Series*

220V Class (1-Phase Input) 1HP~3 HP

220V Class (3-Phase Input) 1HP~20HP

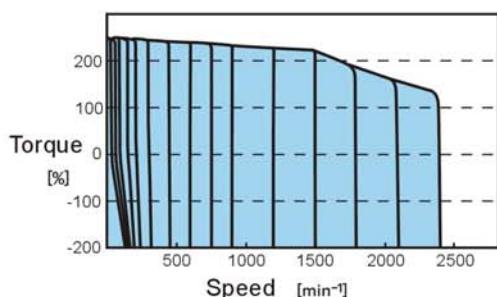
440V Class (3-Phase Input) 1HP~20HP



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ELECTRIC

**POINT
1**

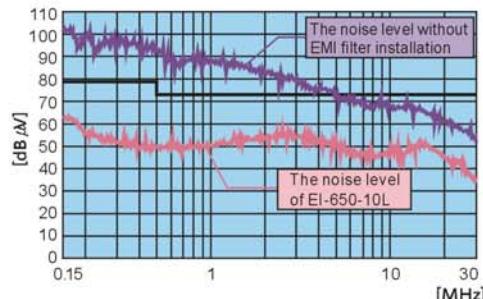
High Starting Torque



- EI-650 features the most advanced control technique of high-speed vector current control-200% output torque at 1Hz. In either starting area (motor acceleration) or braking area (motor deceleration), it keeps the stable and smooth operation to satisfy the requirement of application that needs large starting torque.
- Torque auto compensation can be achieved by auto-tuning after one parameter setting for EI-650 to reach the best efficiency.

**POINT
2**

Built-In EMI Noise Filter



- The built-in EMI noise filter (optional for under 2HP) can greatly decrease the RFI noise or current interruption produced from inverter.
- EI-650 also meets European EMC compliance.

**POINT
3**

Multiple Functions



- Configurable voltage / frequency characteristics: V/F constant torque control, variable torque control, automatic torque boost control, sensorless vector control, automatic energy savings, dynamic automatic energy-saving control and permanent-magnet motor control.
- Start/stop: Three-wire control, multifunctional input terminal, digital operator and RS485 communication control.
- Frequency reference: Built-in potentiometer, 4-20mA, 0-10V \wedge , \vee keys and serial communication.
- The sum of 2 analog signals (VIA/VIB) can be used as a frequency command value.
- 16 multi-speed setting, jog command, NPN, PNP input signal switch.
- PID feedback control with built-in 24VDC power supply for process transducer.
- All EI-650 units are equipped with built-in IGBT braking transistors.

POINT
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Standard Wiring

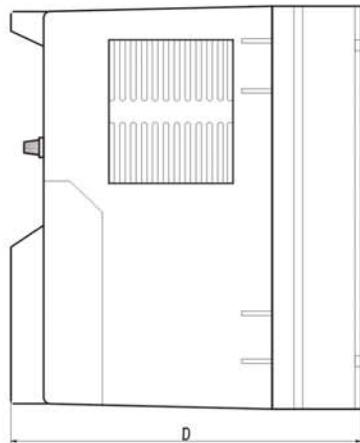
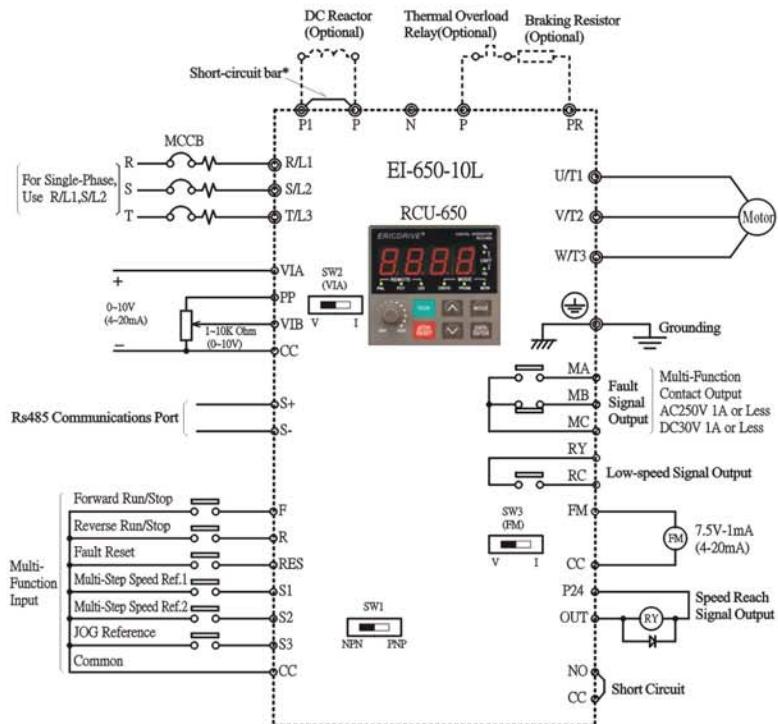
Connection Diagram 1: SW1 to NPN

Example: 220V/10HP

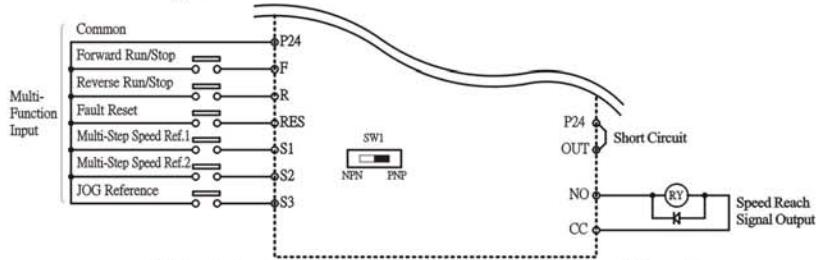
POINT
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Dimension

Unit:mm



Connection Diagram 2: SW1 to PNP

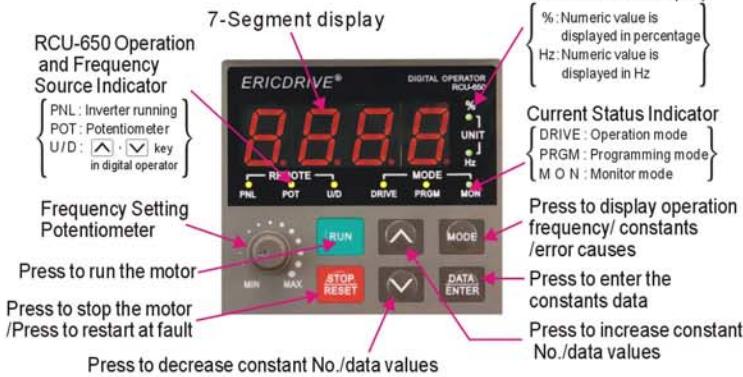


* Short-circuit bar should be removed when connecting a DC reactor

POINT
6

Digital Operator (RCU-650)

User Instruction



Voltage Class	Capacity (HP)	W	H	D	W1	H1	H2	Mass
220V single-phase	1HP	109	165	150	100	125	20	1.4
	2HP	137	185	161	128	145	20	2.0
	3HP	109	165	150	100	125	20	1.4
	5HP	137	185	161	128	145	20	2.0
220V 3-phase	7.5HP	191	280	168	181	224	28	5.3
	10HP	245	310	190	225	295	20	8.8
	15HP	109	165	150	100	125	20	1.4
	20HP	137	185	161	128	145	20	2.0
440V 3-phase	1HP	109	165	150	100	125	20	1.4
	2HP	137	185	161	128	145	20	2.0
	3HP	191	280	168	181	224	28	5.3
	5HP	245	310	190	225	295	20	8.8

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