TECO

# E710

Next-Generation Compact Drive

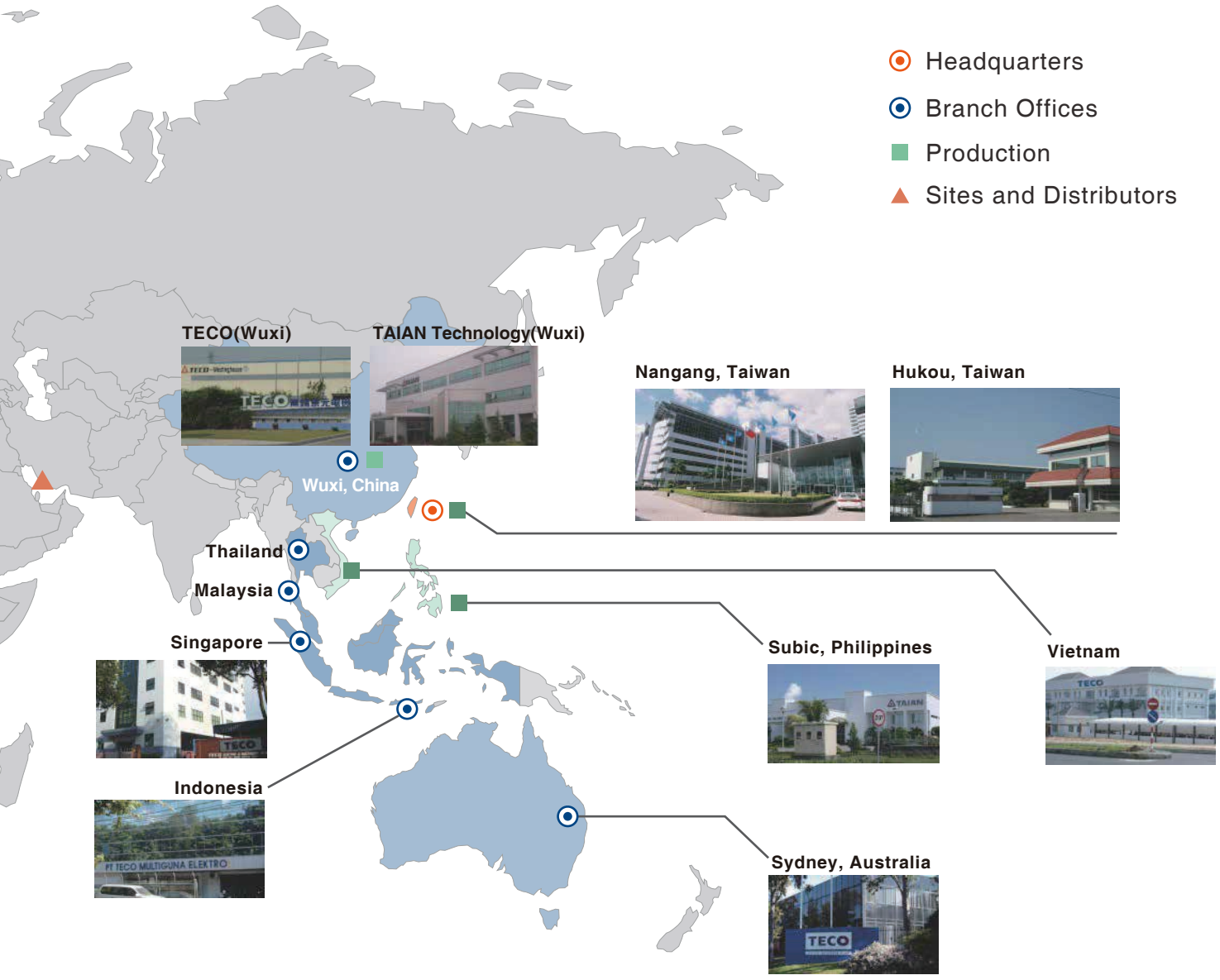


# COMPANY PROFILE

Starting from a major motor manufacturer, TECO has transformed into a business group with high competitiveness and globalized operation, spanning heavy electric equipment, home appliances, information technology, communications, key electronic components and parts, infrastructural engineering, financial investment,dining, and home delivery and other services.



In a global initiative aimed at expanding the business scope and creating a comprehensive marketing and service system, we are developing a new business model and implementing global operations to realize our corporate vision of becoming a world-class brand. We are utilizing innovative technologies and providing excellent services to achieve this goal.



Next-Generation Compact Drive

# E710




**Miniature, multi-functional, stabile and reliable, with more installation space and a stable, safe and reliable production environment.**

## 1 Ultimate

Reduced size

Side by side installation



Disk reduction 50%




## 2 Easy to use

Easy installation

Simple adjustments

Rail mounting

Spring terminals

Buckle design

Copy modules



## 3 Superior

Multiple drivers

Superior performance




Multi-type PG feedback / Low motor noise

## 4 Stable, safe

Predictive diagnosis

Multiple protection

Advanced process

Demagnetization

Life prediction

Built-in filter

## 5 Complies with

Global sales

Responsible

UL , cUL , CE

RoHS , REACH

## Ultimate space experience

### Miniaturization

Space saving new technology and dual CPU design



Disk reduction 50%

E710

Ambient temperature -20~50℃ without derating

### Seamless side-by-side installation

Significantly saves installation space, installation costs, and looks clean and attractive



Install side-by-side or add dust-proof stickers: ambient temperature -20~40℃ without derating

## Motor control algorithm improves quality and quantity

### One machine with multiple controls , supports IM/PM/SynRM

**Induction Motor**



Easy installation

**Permanent Magnet Motor**



- High energy efficiency
- High design density
- Good response
- High starting torque
- Excellent frequency conversion and energy saving

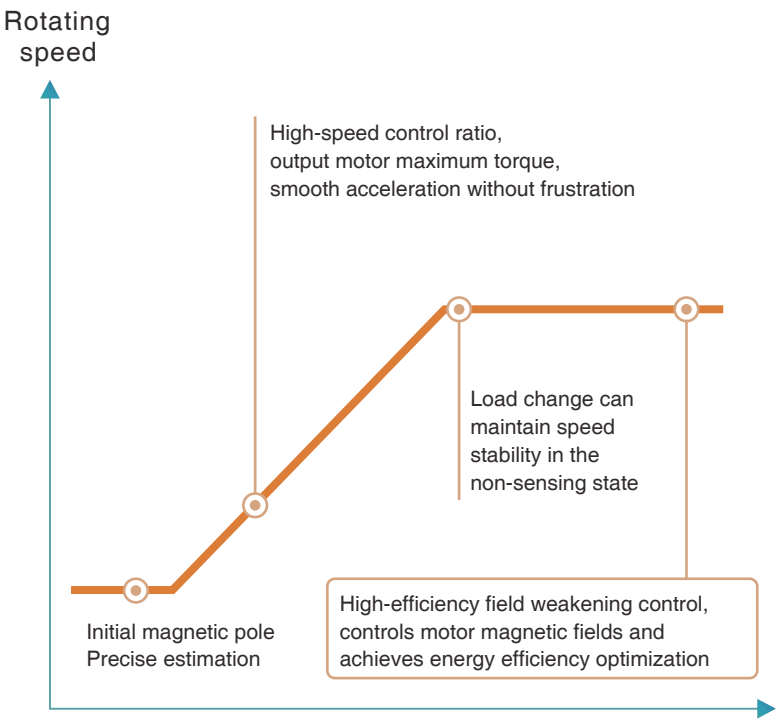
**Line-Start Synchronous Reluctance Motor**



High energy efficiency

### Excellent PM motor control

- Innovative vector control
- Algorithm to improve current efficiency

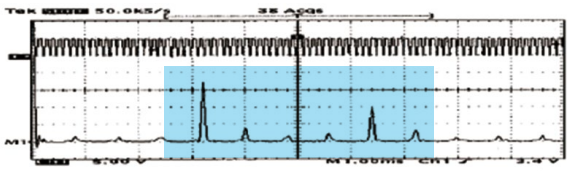



Note: For SynRM control, please contact your TECO sales representative.

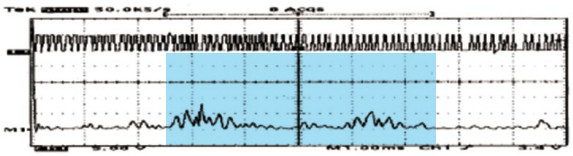
## Motor Noise Reduction Technology

**Exclusive Soft PWM control technology reduces the radio frequency interference and motor noise.**

Traditional PWM output



Soft PWM output



## Built-in filter

**Models with built-in EMI filter comply with EN 61800-3 Class I environmental restrictions (C2 level) and reduce electromagnetic interference.**

## Smart Factory - Smartphone remote connection

The optional LCD bluetooth panel remotely connects inverters with mobile phones so customers can conveniently monitor and adjust machines remotely.

Smart phones can be remotely connected to machines by installing the TECO Bluetooth operator (optional by project) on the panel to edit parameters and confirm monitoring information in real time.

- Monitor operating conditions
- Parameter setting
- Confirm error records
- Troubleshooting when errors occur

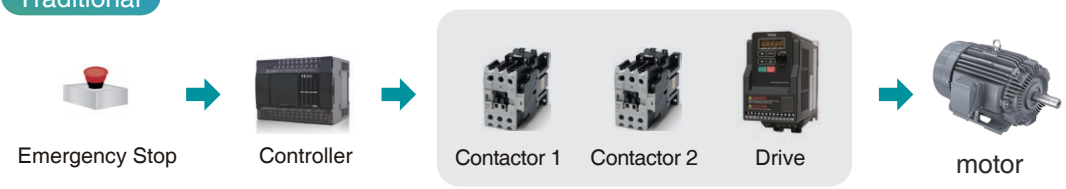


## Safety Function

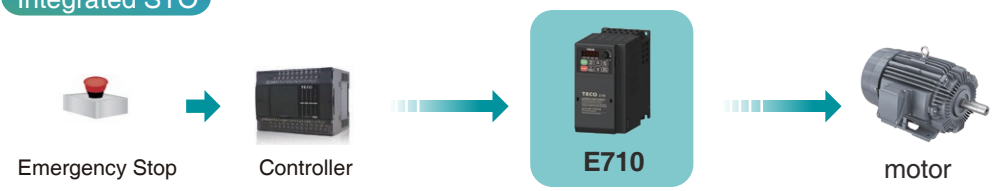
**Integrated Safety Torque Off (STO), complies with:**

- EN 60204-1 Category 0
- EN ISO 13849-1 Cat/PLd
- EN61508 SIL2
- EN62061 SIL CL2

Traditional




Integrated STO




- Protection action is faster
- Saves contactors
- Reduces points of failure

## Easy to use

**Communication accessories are easy to install, network interfaces and terminals coexist.**




- Standard equipped with extendable LED panel
- Compatible with A510s LCD panel



- The fan easily disassembles, convenient for daily cleaning and maintenance.
- The buckle design is convenient for installation.
- Anti-dust stickers for added protection

- Spring-loaded quick-disconnect terminals saves installation time

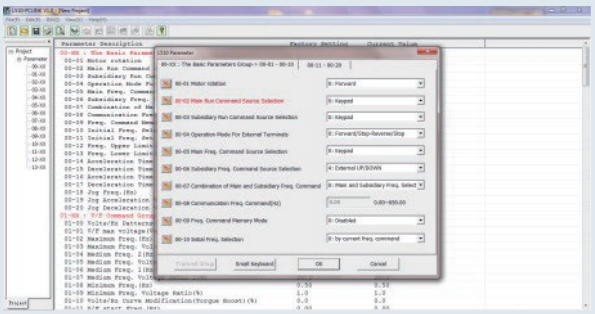


- Track installation, efficient and convenient



### DriveLink humanized compute

Users can use PC software to conveniently and efficiently edit E710 inverter parameters, save, and compare, etc. Improves efficiency of customer parameter settings and on-site debugging.



## High reliability - automated production

### Advanced production processes improve product reliability

- Automated processes improve mass production efficiency and stabilize product quality
- A range of PCB coatings improve product environmental tolerance

## Complies with international standards

- Complies with European RoHS/REACH directives
- Complies with international UL/cUL/CE certification

RoHS REACH



Advanced equipment such as wave soldering furnaces
Lead-free processes



Automatic soldering robot arm ensures solder is error-free



One-stop assembly line
High efficiency and high productivity



Automatic coating production line improves product surface wear resistance

## Pre-diagnosis of equipment failure

### Service life prediction of main parts

Monitors the deterioration status of main part service life (fans, electrolytic capacitors, etc.) and immediately notifies replacement time to ensure continuous and stable operation of the equipment.




### Fault warning and diagnosis functions

Inverter life prediction diagnosis

Multiple protection and alarm functions ensures stable operation of equipment

Running state

Protection of Motor
Real-time monitoring

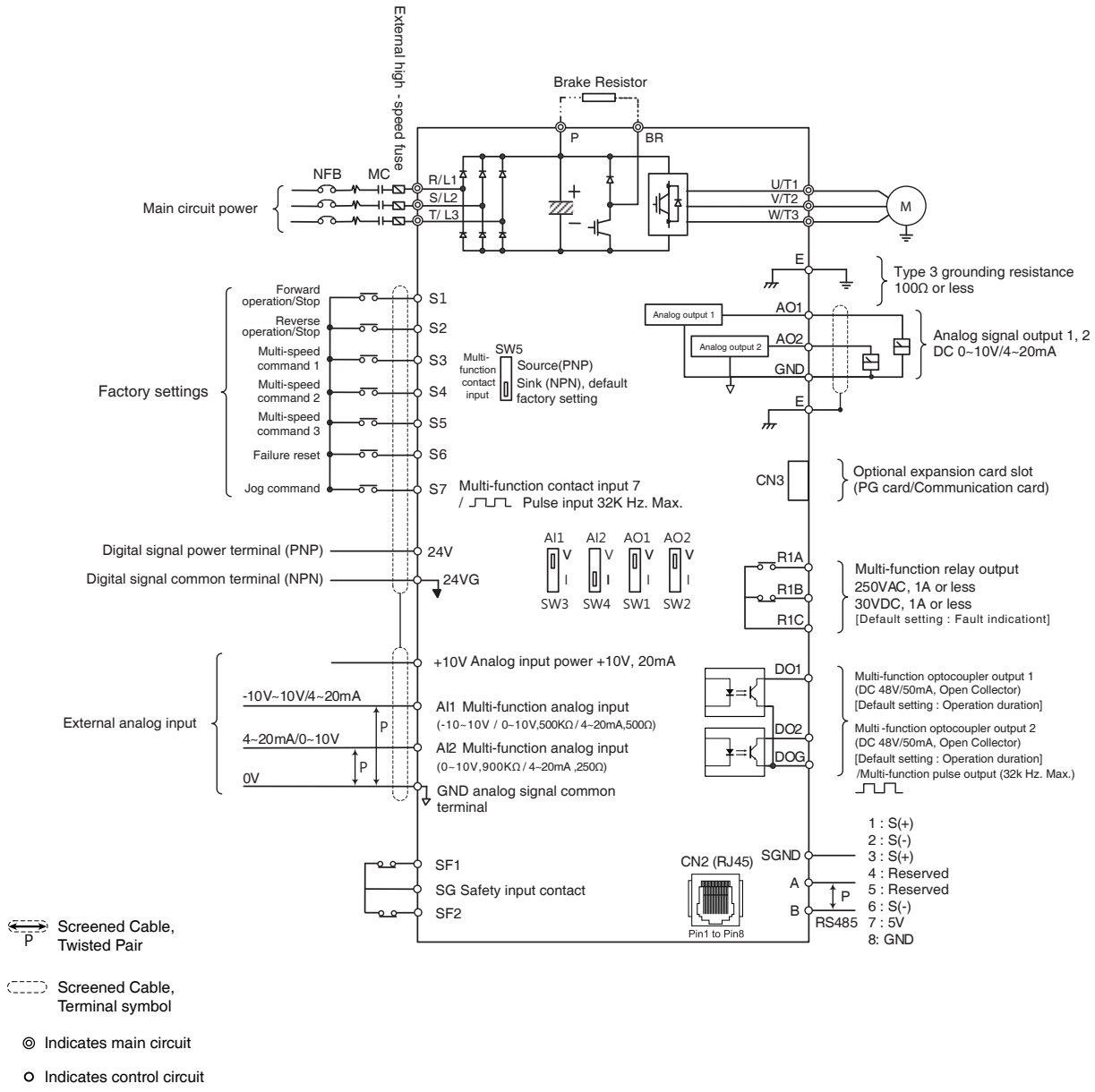
### Motor protection warning function

- Prevention of permanent magnet demagnetization (PM motor)
  Advanced multi-stage voltage and current stall controls can maximize motor output and prevent PM motor demagnetization to prolong motor life
- Eccentric gap/rotor guide bar, end ring fracture malfunction/stator winding short circuit, open circuit detection (IM motor)

# Wiring Diagram (E710 Standard S type) 403~430 / 202~220

The wiring diagram of the E710 inverter standard model ( ◎ indicates the main circuit terminal / ○ indicates the control circuit terminal). The position and symbols of the wiring terminal socket of the E710 varies slightly depending on the model.

For descriptions of the main circuit terminals and control circuit terminals, please refer to the following chapters.




Note

*1: Use SW5 to select between Sink (NPN, with 24VG common) or Source (PNP, with +24V common) for multi-function digital input terminals S1~S7.

*2: Use SW3/SW4 to switch between voltage (0~10V) and current (4~20mA) input for Multi-function analog input 1/2 (AI1/AI2). Besides please also check parameter 04-00 for proper setting.

*3: When S7 is used as pulse input, connecting an external resistor is unnecessary due to the built-in pull-up resistor.

*4: The safety input contacts F1&F2 are short-circuited to the SG inverter for normal output. When using safety input, remove the short-circuit wires between F1-SG and F2-SG.

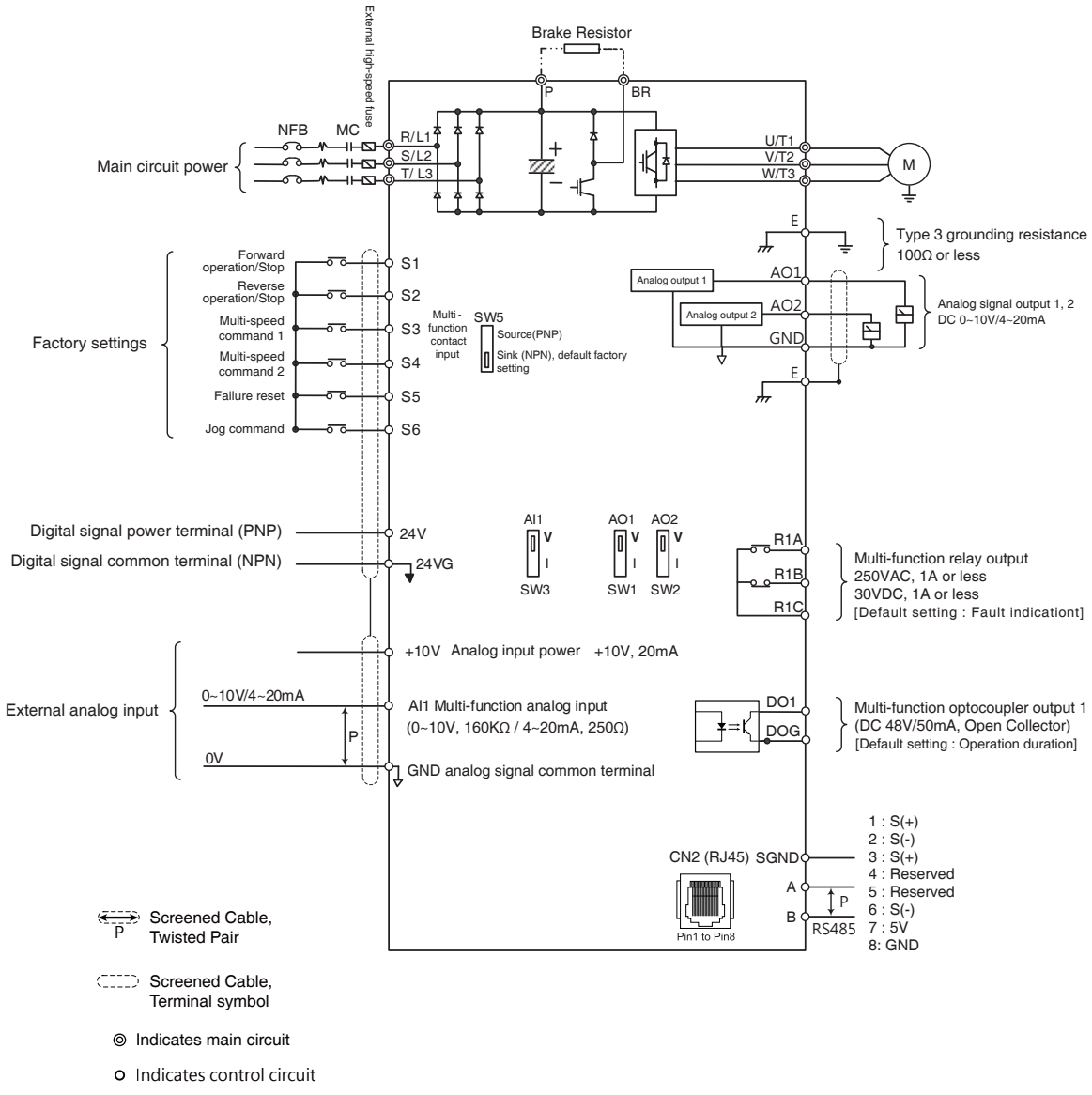
*5: AO1/AO2 presets a 0~10V output can be set to voltage output (0~10V) or current output (4~20mA) through switch SW1/SW2 to match parameter settings.

*6: When DO2 uses pulse output functions, pull-up resistance is recommended to be 200Ω.

# Wiring Diagram (E710 Basic E type) 401~402 / 2P5~201

The wiring diagram of the E710 inverter basic model ( ◎ indicates the main circuit terminal / ○ indicates the control circuit terminal). The position and symbols of the wiring terminal socket of the E710 varies slightly depending on the model.

For descriptions of the main circuit terminals and control circuit terminals, please refer to the following chapters.




Note

*1: Use SW5 to select between Sink (NPN, with 24VG common) or Source (PNP, with +24V common) for multi-function digital input terminals S1~S6.

*2: Use SW3 to switch between voltage (0~10V) and current (4~20mA) input for Multi-function analog input 1 (AI1). Besides please also check parameter 04-00 for proper setting.

*3: AO1/AO2 presets a 0~10V output can be set to voltage output (0~10V) or current output (4~20mA) through switch SW1/SW2 to match parameter settings.

## Catalog Number Identification

**E710 - 2 01 - H 1 S F**

| Input Voltage | Horse Power | | Type | Power Supply | E: Basic | Noise Filter |
|---|---|---|---|---|---|---|
| 2 : 220V | P5 : 0.5HP | 10 : 10HP | Blank : None | Blank : | 401~402 | Blank : None |
| 4 : 440V | 01 : 1.0HP | 15 : 15HP | H : LED Keypad | Single/Three Phase | 2P5~201 | F : Built-in |
| | 02 : 2.0HP | 20 : 20HP | | 1 : Single-Phase | **S: Standard** | |
| | 03 : 3.0HP | 25 : 25HP | | 3 : Three-Phase | 403~430 | |
| | 05 : 5.0HP | 30 : 30HP | | | 202~220 | |
| | 08 : 7.5HP | | | | | |

## General Specifications

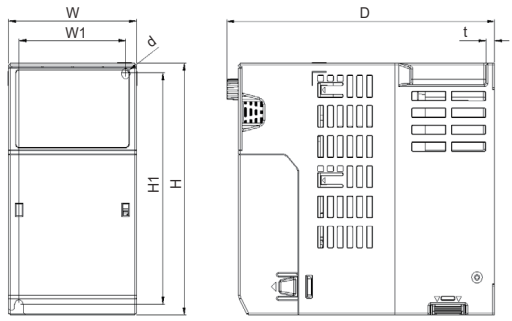
| Catalog No. | Input Voltage (VAC) | Horse Power | Motor Current | Output Current HD | Noise Filter | | Frame No. |
|---|---|---|---|---|---|---|---|
| | | | | | Built-in | None | |
| E710-2P5-HE | Single/Three-Phase 200 ~ 240V +10% ~ -15% 50/60Hz | 0.5 | 1.68 | 2.8 | | ◎ | 1 |
| E710-201-HE | | 1 | 3.25 | 4.8 | | ◎ | 1 |
| E710-202-HS | | 2 | 6.16 | 7.5 | | ◎ | 2 |
| E710-203-HS | | 3 | 8.23 | 11 | | ◎ | 2 |
| E710-2P5-H1EF | Single-Phase 200 ~ 240V +10% ~ -15% 50/60Hz | 0.5 | 0.97 | 2.8 | ◎ | | 1 |
| E710-201-H1EF | | 1 | 3.25 | 4.8 | ◎ | | 1 |
| E710-202-H1SF | | 2 | 6.16 | 7.5 | ◎ | | 2 |
| E710-203-H1SF | | 3 | 8.23 | 11 | ◎ | | 2 |
| E710-205-H3S | Three-Phase 200 ~ 240V +10% ~ -15% 50/60Hz | 5 | 14.48 | 17 | | ◎ | 2 |
| E710-208-H3S | | 7.5 | 19.03 | 25 | | ◎ | 3 |
| E710-210-H3S | | 10 | 25.60 | 33 | | ◎ | 4 |
| E710-215-H3S | | 15 | 37.20 | 47 | | ◎ | 4 |
| E710-220-H3S | | 20 | 50.34 | 60 | | ◎ | 5 |
| E710-401-H3E | Three-Phase 380 ~ 480V +10% ~ -15% 50/60Hz | 1 | 1.88 | 2.7 | | ◎ | 1 |
| E710-402-H3E | | 2 | 3.56 | 4.2 | | ◎ | 1 |
| E710-403-H3S | | 3 | 4.76 | 5.5 | | ◎ | 2 |
| E710-405-H3S | | 5 | 8.37 | 9 | | ◎ | 2 |
| E710-408-H3S | | 7.5 | 11 | 13 | | ◎ | 3 |
| E710-410-H3S | | 10 | 14.8 | 17 | | ◎ | 3 |
| E710-401-H3EF | | 1 | 1.88 | 2.7 | ◎ | | 1 |
| E710-402-H3EF | | 2 | 3.56 | 4.2 | ◎ | | 1 |
| E710-403-H3SF | | 3 | 4.76 | 5.5 | ◎ | | 2 |
| E710-405-H3SF | | 5 | 8.37 | 9 | ◎ | | 2 |
| E710-408-H3SF | | 7.5 | 11 | 13 | ◎ | | 3 |
| E710-410-H3SF | | 10 | 14.8 | 17 | ◎ | | 3 |
| E710-415-H3S | | 15 | 21.5 | 24 | | ◎ | 4 |
| E710-420-H3S | | 20 | 29.1 | 31 | | ◎ | 4 |
| E710-425-H3S | | 25 | 35.7 | 39 | | ◎ | 5 |
| E710-430-H3S | | 30 | 42.3 | 45 | | ◎ | 5 |
| E710-415-H3SF | | 15 | 21.5 | 24 | ◎ | | 4 |
| E710-420-H3SF | | 20 | 29.1 | 31 | ◎ | | 4 |
| E710-425-H3SF | | 25 | 35.7 | 39 | ◎ | | 5 |
| E710-430-H3SF | | 30 | 42.3 | 45 | ◎ | | 5 |

# General Specifications

| | | Standard S type(403~430/202~220) | Basic E type(401~402/2P5~201) |
|---|---|---|---|
| Control Characteristics | | IM: V/F, V/F+PG, SLV, SV | IM: V/F, SLV |
| | | PM: SV, SLV | PM: SLV |
| | | SRM: PMA-SyRM-SLV, SyRM-SLV | - |
| Frequency | Frequency control range | 0.01~599Hz | |
| | Starting torque | 150%/3Hz(VF) , 150% / 0.5Hz (SLV) | |
| | Frequency setting resolution | Digital references: 0.01Hz | |
| | | Analog references: 0.06Hz/60Hz | |
| | Frequency setting | keypad: Set directly with▲▼ keys or the VR on the keypad | |
| | | External Input Terminlas:<br>AI1/AI2 (0~10V / 2~10V / 0~20mA / 4~20mA) input Multifunction input up/down function | |
| | | Setting frequency by communication method. | |
| | Frequency limit | Lower and upper frequency limits 3 skip frequency settings. | |
| | Speed control accuracy | V/F :±2~3%, SLV :± 1% | |
| Run | Operation set | Keypad run, stop button | |
| | | External terminals: Multi-operation-mode2/3 wire selection, Jog operation | |
| | | Run signal by communication method. | |
| Main Control Features | V / F curve setting | 18 fixed curves and one customized curve | |
| | Carrier frequency | 2~16KHz (default value : 4kHz) | |
| | Acceleration and deceleration control | 2 off Acc / dec time parameters | |
| | | 4 off S curve parameters | |
| | Multifunction input | 29 functions (refer to description on group3) | |
| | Multifunction output | 21 functions (refer to description on group3) | |
| | Multifunction analog output | 5 functions (refer to description on group4) | |
| | Main features | Overload Detection,16 preset speeds,Auto-run, Acc/Dec Switch (2 Stages), PID control, Torque boost, Main/Alt run Command select, Main/Alt Frequency Command select, V/F start Frequency, Fault reset | |
| Display | LED | Display: Parameter / Parameter value / Frequency / Line speed / DC voltage / Output voltage / Output current / PID feedback / input and output terminal status / Heat sink temperature / Program Version / Fault Log. | |
| | LED Status Indicator | Run / Stop / Forward / Reverse ,and etc | |
| Protective functions | Overload Protection | The relays to protect the motor and the inverter. (150%/1min) | |
| | Over voltage | 220V: >410V, 380V: >820V | |
| | Under Voltage | 220V: <190V, 380V: <380V | |
| | Momentary Power Loss Restart | Inverter auto-restart after a momentary power loss. | |
| | Stall Prevention | Stall prevention for Acceleration/ Deceleration/ Operation. | |
| | Short-circuit output terminal | Electronic Circuit Protection | |
| | STO Functions | Standard S type (403~430/202~220):Output quick break | Basic E type (401~402/2P5~201):None |
| | Other protection features | Protection for overheating of heat sink,The carrier frequency decreasing with the temperature function,fault output,reverse prohibit,prohibit for direct start after power up and error recovery , parameter lock up | |
| Communication control | | Standard built-in RS485 communication (Modbus), One to one or One to many control. | |
| Environment | Operating temperature | Type IP20/NEMA 1 inside switchboard:<br>**Without dustproof sticker:** -20~50° / **With dustproof sticker:** -20~40°<br>**Side-by-side installation:** -20~40℃<br>*De-rating: For usage between 50~60℃, there is a 2% decrease in current for every 1℃ increase. | |
| | Storage temperature | -20～70℃ | |
| | Humidity | 95% RH or less (no condensation) (Compliance with IEC 60068 - 2-78) | |
| | Shock | 10Hz ≦ f ≦ 57Hz：±0.075mm Amplitude；<br>57Hz ≦ f ≦ 150Hz：1.0G Acceleration: (Compliance with IEC60068-2-6) | |
| | Protection class | IP20 / NEMA1 | |
| Certification | | UL / cUL / CE / RoHS / REACH | |

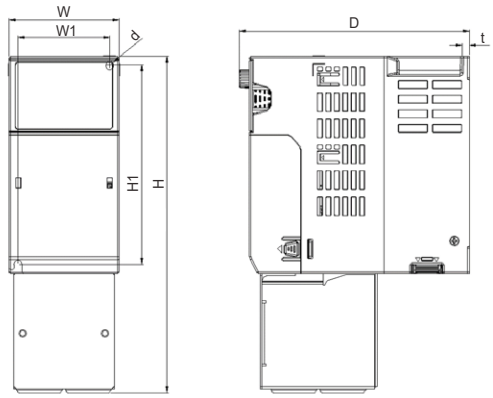
# Dimensions

## 220V : 0.5~1HP / 440V : 1~2HP (IP20)



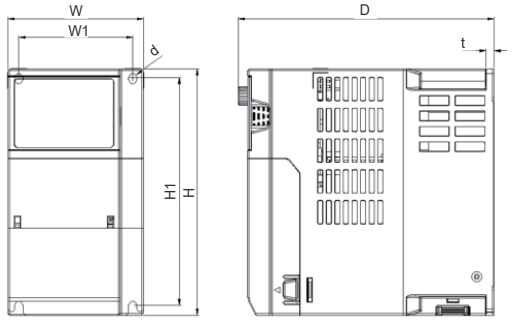

| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-2P5-HE | 72 | 142 | 150 | 60 | 130.5 | 5 | M4 | 1.2 |
| E710-201-HE | 72 | 142 | 150 | 60 | 130.5 | 5 | M4 | 1.2 |
| E710-401-H3E | 72 | 142 | 150 | 60 | 130.5 | 5 | M4 | 1.2 |
| E710-402-H3E | 72 | 142 | 150 | 60 | 130.5 | 5 | M4 | 1.2 |

## 220V：0.5~1HP / 440V : 1~2HP (NEMA1)



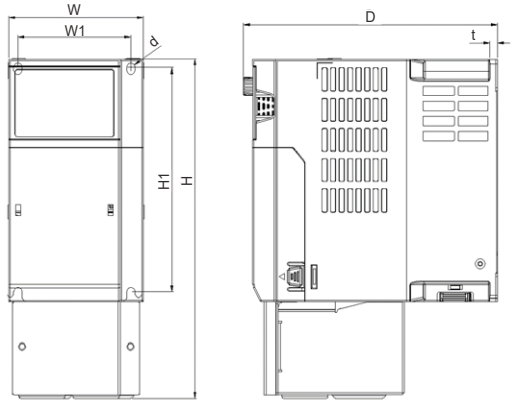

| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-2P5-HE | 72 | 220 | 150 | 60 | 130.5 | 5 | M4 | 1.5 |
| E710-201-HE | 72 | 220 | 150 | 60 | 130.5 | 5 | M4 | 1.5 |
| E710-401-H3E | 72 | 220 | 150 | 60 | 130.5 | 5 | M4 | 1.5 |
| E710-402-H3E | 72 | 220 | 150 | 60 | 130.5 | 5 | M4 | 1.5 |

## 220V : 2~5HP / 440V : 3~5HP (IP20)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-202-HS | 87 | 157 | 164 | 73 | 145 | 5 | M4 | 1.6 |
| E710-203-HS | 87 | 157 | 164 | 73 | 145 | 5 | M4 | 1.6 |
| E710-205-H3S | 87 | 157 | 164 | 73 | 145 | 5 | M4 | 1.6 |
| E710-403-H3S | 87 | 157 | 164 | 73 | 145 | 5 | M4 | 1.6 |
| E710-405-H3S | 87 | 157 | 164 | 73 | 145 | 5 | M4 | 1.6 |

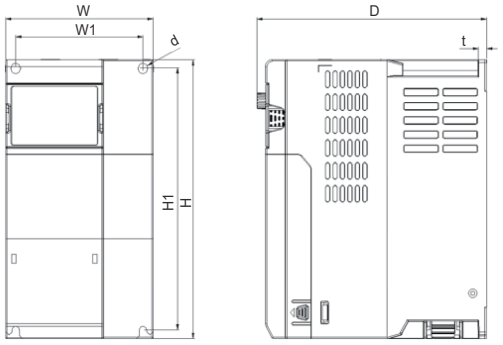
## 220V : 2~5HP / 440V : 3~5HP (NEMA1)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-202-HS | 87 | 220 | 164 | 73 | 145 | 5 | M4 | 2 |
| E710-203-HS | 87 | 220 | 164 | 73 | 145 | 5 | M4 | 2 |
| E710-205-H3S | 87 | 220 | 164 | 73 | 145 | 5 | M4 | 2 |
| E710-403-H3S | 87 | 220 | 164 | 73 | 145 | 5 | M4 | 2 |
| E710-405-H3S | 87 | 220 | 164 | 73 | 145 | 5 | M4 | 2 |

# Dimensions

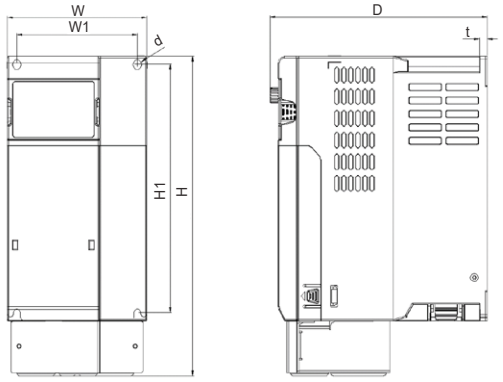
## 220V : 8HP / 440V : 8~10HP (IP20)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-208-H3S | 109 | 207 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |
| E710-408-H3S | 109 | 207 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |
| E710-410-H3S | 109 | 207 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |

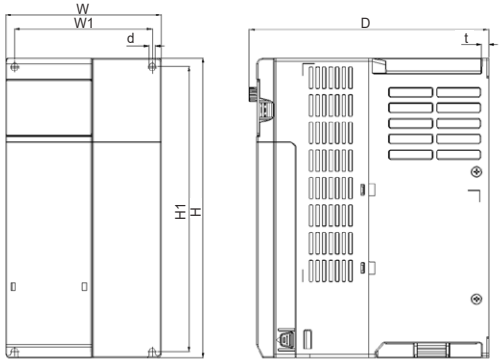
*Please consult local sales personnel regarding filter sizes

## 220V : 8HP / 440V : 8~10HP (NEMA1)



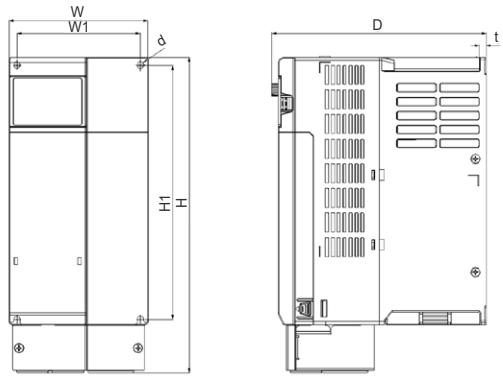

| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-208-H3S | 109 | 250 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |
| E710-408-H3S | 109 | 250 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |
| E710-410-H3S | 109 | 250 | 169 | 94 | 194.5 | 6 | M4 | 2.3 |

## 220V : 10~15HP / 440V : 15~20HP (IP20)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-210-H3S | 130 | 250 | 200 | 115 | 237.5 | 5.5 | M5 | 4.2 |
| E710-215-H3S | 130 | 250 | 200 | 115 | 237.5 | 5.5 | M5 | 4.2 |
| E710-415-H3S | 130 | 250 | 200 | 115 | 237.5 | 5.5 | M5 | 4.2 |
| E710-420-H3S | 130 | 250 | 200 | 115 | 237.5 | 5.5 | M5 | 4.2 |

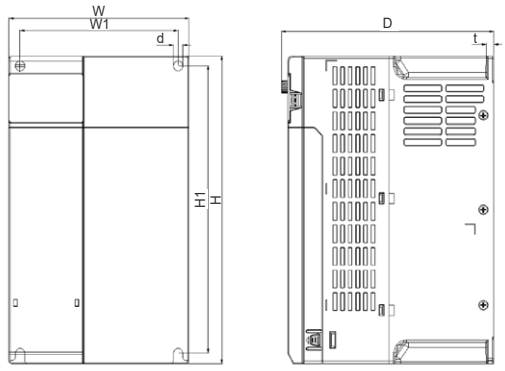
## 220V : 10~15HP / 440V : 15~20HP (NEMA1)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-210-H3S | 130 | 295 | 200 | 115 | 237.5 | 5.5 | M5 | 6 |
| E710-215-H3S | 130 | 295 | 200 | 115 | 237.5 | 5.5 | M5 | 6 |
| E710-415-H3S | 130 | 295 | 200 | 115 | 237.5 | 5.5 | M5 | 6 |
| E710-420-H3S | 130 | 295 | 200 | 115 | 237.5 | 5.5 | M5 | 6 |

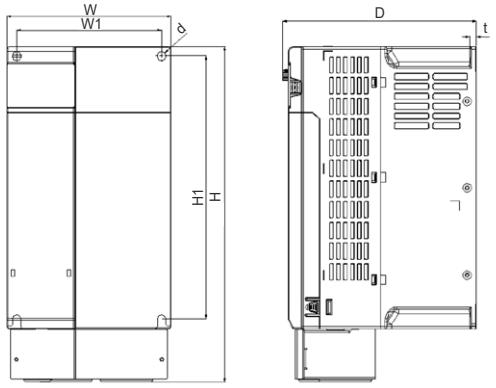
# Dimensions

### 220V : 20HP / 440V : 25~30HP (IP20)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-220-H3S | 170 | 300 | 206.5 | 154 | 280 | 7 | M8 | 6.5 |
| E710-425-H3S | 170 | 300 | 206.5 | 154 | 280 | 7 | M8 | 6.5 |
| E710-430-H3S | 170 | 300 | 206.5 | 154 | 280 | 7 | M8 | 6.5 |

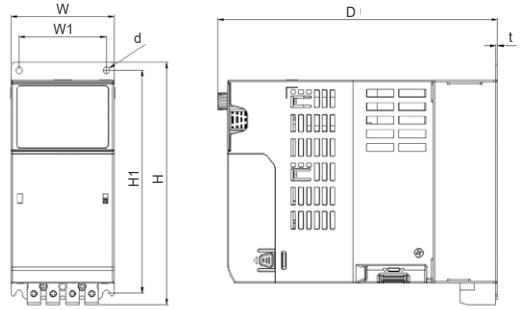
### 220V : 20HP / 440V : 25~30HP (NEMA1)




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-220-H3S | 170 | 357 | 206.5 | 154 | 280 | 7 | M8 | 8.5 |
| E710-425-H3S | 170 | 357 | 206.5 | 154 | 280 | 7 | M8 | 8.5 |
| E710-430-H3S | 170 | 357 | 206.5 | 154 | 280 | 7 | M8 | 8.5 |

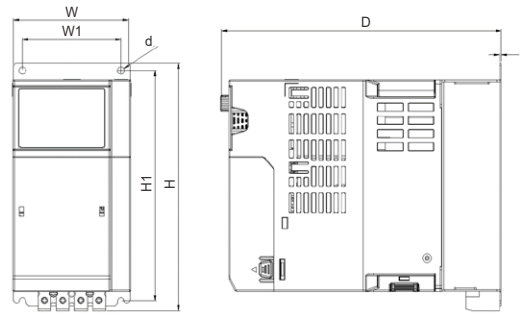
## Built-in filter type

### 220V : 0.5~1HP / 440V : 1~2HP




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-2P5-H1EF | 72 | 169.5 | 195.5 | 60 | 156 | 1.2 | M4 | 1.9 |
| E710-201-H1EF | 72 | 169.5 | 195.5 | 60 | 156 | 1.2 | M4 | 1.9 |
| E710-401-H3EF | 72 | 169.5 | 195.5 | 60 | 156 | 1.2 | M4 | 1.9 |
| E710-402-H3EF | 72 | 169.5 | 195.5 | 60 | 156 | 1.2 | M4 | 1.9 |

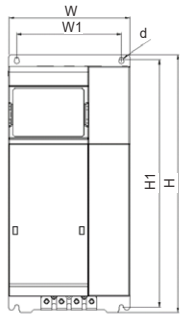
### 220V : 2~3HP / 440V : 3~5HP

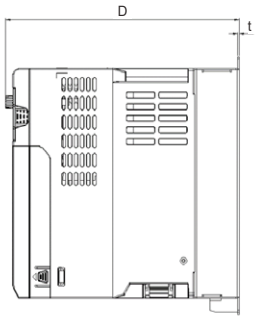



| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-202-H1SF | 87 | 184 | 207 | 73 | 171 | 1.2 | M4 | 2.4 |
| E710-203-H1SF | 87 | 184 | 207 | 73 | 171 | 1.2 | M4 | 2.4 |
| E710-403-H3SF | 87 | 184 | 207 | 73 | 171 | 1.2 | M4 | 2.4 |
| E710-405-H3SF | 87 | 184 | 207 | 73 | 171 | 1.2 | M4 | 2.4 |

# Dimensions

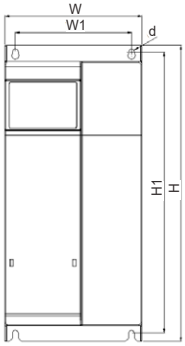
## 440V : 7.5~10HP

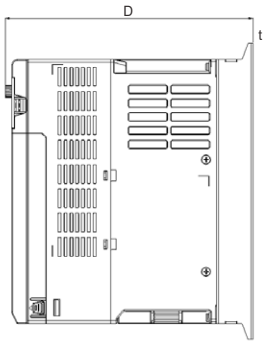



| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-408-H3SF | 109 | 232 | 210 | 94 | 222.5 | 1.2 | M4 | 3.6 |
| E710-410-H3SF | 109 | 232 | 210 | 94 | 222.5 | 1.2 | M4 | 3.6 |

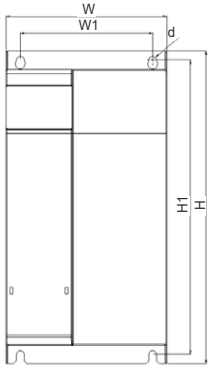
## 440V : 15~20HP

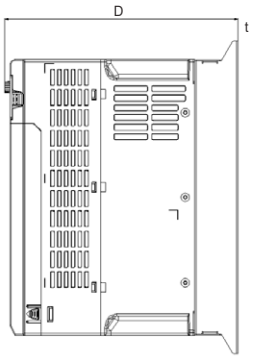



| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-415-H3SF | 130 | 280 | 234.5 | 110 | 266 | 1.5 | M5 | 6.2 |
| E710-420-H3SF | 130 | 280 | 234.5 | 110 | 266 | 1.5 | M5 | 6.2 |

## 440V : 25~30HP




| Catalog No. | Dimensions(mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | W1 | H1 | t | d | Net Weight (kg) |
| E710-425-H3SF | 174 | 340 | 254 | 144 | 320.5 | 1.5 | M8 | 9 |
| E710-430-H3SF | 174 | 340 | 254 | 144 | 320.5 | 1.5 | M8 | 9 |

# Accessories

| Accessories | | Catalog No. | Description |
|---|---|---|---|
| 710 Series Copy Module | | JN7-CU | **Copy functions:** When the same parameters are to be set for several E710 inverters of the same model, the parameters of one inverter can be preset and the copy module that saves the set parameters can be connected and the parameters can be copied to other machines through the copy module, which can reduce the need to repeat manual settings. **Simple panel functions:** cannot be used as a panel, please refer to the inverter's instruction manual for specific operations. |
| Profibus DP Communication Module | | JN5-CM-PDP | Development of the JN5-CM-PDP module is for Profibus-DP factory automation applications. |
| TCP-IP Communication | | JN5-CM-TCPIP | For communicating with devices such as inverters/servo drives that support RS485 communication protocols to achieve remote control. |
| DeviceNet Communication | | JN5-CM-DNET | Applicable in automatic control systems using DeviceNet industrial network communication protocols and enables E710 series inverters without DeviceNet functions to run on the DeviceNet network. |
| CANopen Communication | | JN5-CM-CAN | Applicable in automatic control systems adopting CANopen industrial network communication protocols, so that E710 series inverters can run on the CANopen network. |
| Digital Operator Extension Cable | 1 m | JN5-CB-01M | The digital operator can be detached from the inverter unit and operated remotely using a digital operator extension cable. Available in four lengths: 1m, 2m, 3m, and 5m. |
| | 2 m | JN5-CB-02M | |
| | 3 m | JN5-CB-03M | |
| | 5 m | JN5-CB-05M | |
| RJ45 to USB Communication cable (1.8m) | | JN5-CM-USB | Converts USB communication formats to RS485 communication formats, allowing communication control between the inverter and PC (or other control equipment with USB interfaces), diversifying inverter control. |
| Profinet Communication Card | | JN7-CMCS-PFNET | Applicable in automatic control systems adopting Profinet industrial network communication protocols, so that E710 series inverters can run on the Profinet network. |
| OPC UA Communication Card | | JN7-CMCS-OPCUA | Applicable in automatic control systems adopting OPC UA industrial network communication protocols, so that E710 series inverters can run on the OPC UA network, and support data exchange with upper-level monitoring systems. |
| EtherCAT Communication Card | | JN7-CMCS-ECAT | Applicable in automatic control systems adopting EtherCAT industrial network communication protocols, so that E710 series inverters can run on the EtherCAT network, achieving high-speed and real-time communication control. |
| MODBUS TCP Communication Card | | JN7-CMCS-MBTCP | Applicable in automatic control systems adopting MODBUS TCP industrial network communication protocols, so that E710 series inverters can run on the MODBUS TCP network. |
| Ethernet IP Communication Card | | JN7-CMCS-EIP | Applicable in automatic control systems adopting EtherNet/IP industrial network communication protocols, so that E710 series inverters can run on the EtherNet/IP network. |
| BACnet IP Communication Card | | JN7-CMCS-BACIP | Applicable in building automation systems adopting BACnet IP industrial network communication protocols, so that E710 series inverters can run on the BACnet IP network and integrate with building management systems. |
| EtherCAT Communication Card | | JN7-CMHI-ECAT | Applicable in automatic control systems adopting EtherCAT industrial network communication protocols, so that E710 series inverters can run on the EtherCAT network, achieving high-speed and real-time communication control. |
| CANopen Communication Card | | JN7-CMHI-CAN | Applicable in automatic control systems adopting CANopen industrial network communication protocols, so that E710 series inverters can run on the CANopen network. |
| Profibus DP Communication Card | | JN7-CMHI-PDP | Development of the JN7-CMHI-PDP communication card is for Profibus DP factory automation applications. |
| TCP-IP Communication Card | | JN7-CMI-TCPIP | For communicating with devices such as inverters/servo drives that support RS485 communication protocols to achieve remote control. |
| Speed Feedback Card | | JN7-PG-PMR | Speed feedback card with TAMAGAWA Resolver. |
| Speed Feedback Card | | JN7-PG-L | PG feedback card dedicated for IM (induction motor), available in Line Driver type and Open Collector type output options. |
| Digital Operator | | JN5-OP-F02 | IP20 LCD type operator |
| Bluetooth Keypad | | JN5-OP-BTH | For wireless remote connection to control the inverter, which can monitor the real-time status and diagnose faults quickly. Note: With the smartphone APP "BT DriveLink", it can be downloaded from Apple APP Store or Google Play. |
| NEMA1 Wiring Box | Frame 1 | JN7-NK-E01 | To upgrade protection to NEMA1 level, it is recommended to purchase a NEMA1 wiring box and install it below the inverter. |
| | Frame 2 | JN7-NK-E02 | |
| | Frame 3 | JN7-NK-E03 | |
| | Frame 4 | JN7-NK-E04 | |
| | Frame 5 | JN7-NK-E05 | |
| DIN RAIL Accessories (Frame 1&2) | | JN7-DIN-L01 | For DIN RAIL mounting (Frame 1 & 2 models only), it is recommended to purchase the DIN RAIL accessory and install it beneath the inverter. |

# Accessories

## Copy module

| JN7-CU |
|---|
|  |
| **Features** |
| ▲ It is possible to copy the inverter parameter settings and write them to other inverters.<br>▲ Standard RJ45 network cable |

## Communication module

| Profibus DP、TCP-IP、DeviceNet、CANopen |
|---|
|  |
| **Features** |
| ▲ After corresponding products pass through the inverter RS485 interface, the inverter can satisfy the following communication protocols: Profibus DP, TCP-IP, DeviceNet, CANopen |

## Cable

| RJ45 to USB | |
|---|---|
| JN5-CM-USB | 1.8 meters |
|  | |
| **Features** | |
| ▲ Equipped with TECO computer software's exclusive connection cable. The inverter parameters can be edited through computers. | |

## Built-in option card

- Profibus DP
- CANopen
- Ethernet/IP
- EtherCAT
- TCP-IP
- Profinet
- OPC UA
- Modbus TCP
- BACnet IP

# E710 industrial applications

- Food machinery
- Packaging and printing
- Fan and water pump
- Woodworking machinery
- Plastic machinery
- Metal processing
- Electronics
- Lithium batteries



Logistics and transportation



Textile machinery



Solar energy



Distributor


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**www.teco.com.tw**



Specifications covered in this brochure may be subject to change without notice.



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