

**-TECO-**  
**Company & Product**  
**introduction**



**MOTOVARIO®**

HEART OF MOTION

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a **TECO Group** company



TECO HQ Taipei

## TECO Electric & Machinery Co.,Ltd.

- Established in **1956**
- Headquarters Taipei, **Taiwan**
- Acquired **Westinghouse Electric** in 1995, **Motovario** in 2015
- Manufacturing facilities **Taiwan, China, USA, Philippines, Malaysia, Indonesia, Vietnam and India**



68

Years of excellence  
in the industry  
sector

100+

Affiliate companies  
globally

40+

Countries with  
business operation

\$1.9B+

Revenue in 2023  
(US\$1,935,692)

23,000+

Global employees

Top 5

Global Electric  
Motor  
Manufacturer



LV Inverter



MV & HV Inverter



PLC



Servo



LV Motor



MV & HV Motor



EV Motor & Drive



Cobot



## SA Business Unit



LV Inverter



PLC



Servo

## GE Business Unit



LV Motor

# PRODUCT PORTFOLIO: TECO 510 series



Price



## **A510s**

**Top range: closed loop control, PM, PLC, STO**  
**0,75kW / 355kW**



## **F510**

**HVAC: multi-pump, PLC, STO**  
**0,75kW / 600kW**  
**IP00-20 / IP55**



## **E510s**

**Mid range+ : PLC, STO, PM**  
**0,4kW - 55kW**  
**IP20 / IP66**



## **E510**

**Mid range: PLC**  
**0,4kW - 18,5kW**  
**IP20 / IP66**



## **L510s**

**Basic range: compact, vector**  
**0,2kW - 11kW**



## **S510**

**Basic range: book style, STO, V/f**  
**0,2kW - 3.7kW**

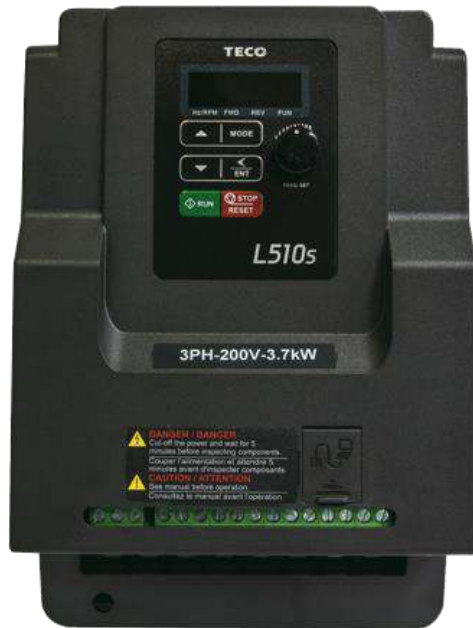
Performance



## S510

- Single phase input 230V. Three phase 400V
- Power range: 0.4 – 3.7kW
- V/f control
- **Safe Torque Off** input (SIL2)
- Conformal coating boards for harsh environment
- Book style
- Optional keypad
- PTC input for thermal motor protection

# S510



## L510s

### L510s

- Single phase input 110 & 230V. Three phase 400V
- Power range: 0.2 – 11kW
- V/f & Vector Control
- Multi-pump control
- Conformal coating boards for harsh environment
- 5 digit keypad with potentiometer
- External keypad as optional accessory
- PTC input for thermal motor protection



# E510

## E510

- Single phase input 230V. Three phase 400V
- Power range: 0.4 – 18.5kW
- V/f & Vector Control
- IP66 (NEMA 4X) version
- PLC function
- Conformal coating boards for harsh environment
- Removable keypad with potentiometer



## E510s

- Single phase input 230V. Three phase 400V
- Power range: 0.4 – 75kW
- Dual rated Normal Duty & Heavy Duty (>18.5kW)
- V/f, Vector Control & PM motor
- **Safe Torque Off** input (SIL2)
- IP66 (NEMA 4X) version
- PLC function
- LCD keypad as option
- Conformal coating boards for harsh environment
- Removable keypad with potentiometer
- Optional comms boards: Profibus, Ethernet TCP/IP, DeviceNet, CANopen & Ethernet/IP

# E510s



**A510s**  
Enhanced

## A510s enhanced

- Single phase input 230V. Three phase 400V
- Power range: 0.75 – 315kW
- Dual rated Normal Duty & Heavy Duty
- V/f, Vector Control, Closed-loop Vector Control & PM motor
- **Safe Torque Off** input (SIL2)
- PLC function
- LCD keypad as option
- Conformal coating boards for harsh environment
- Removable keypad
- Optional comms boards: Profibus, EtherCAT & CANopen
- High speed pulse input and output (32kHz)





## Motoinverter solution

- Single phase input 230V. Three phase 400V.
- Power range: 0.25 – 5.5kW
- V/f & Vector Control
- **Safe Torque Off** input (SIL3-PLe)
- IP55. IP56-65-66 as option
- Keypad, Potyswitch, E-stop as options
- Built-in RS485 Modbus & CANopen
- Optional comms boards: Profibus, Ethernet IP, EtherCAT & Profinet
- Brake, encoder, forced ventilation options available
- USB port for PC programming
- Free PC programming software





## Servodrive JSDG2S & Servomotor JSMA

- Single phase input 230V. Three phase 400V.
- Power range: 0.1 – 15kW
- IP67 motor
- Incremental and absolute encoders up to 23 bit resolution
- Built-in RS485 Modbus & CANopen.  
Optional: EtherCAT
- USB port for PC programming
- Free PC programming software





## SG2 & SG3

- Simple & economical Smart Relay
- Max configuration of 88 inputs / 88 outputs with 9 expansion modules
- LCD multi-language with keypad
- Real Time Clock
- Ethernet port (SG3)
- SD card slot (SG3)
- Email function (SG3)





## AESV IE3/IE4 CAST IRON MOTOR

- Rating from 0,18 to 375kW, 2 to 8 pole
- Frame sizes 80 to 355
- CE, UKCA & UL as standard
- Available in IE3 & IE4 efficiency



## AERV IE3 ALUMINIUM MOTOR

- Rating from 0,18 to 37kW, 2 to 6 pole
- Frame sizes 63 to 200
- CE & UKCA
- PTC, Oil Seals & SKF bearings





## NEMA MOTOR

- Large product offer from TECO-Westinghouse
- Explosion Proof, Vertical solid & hollow shaft, IEE841, stainless steel washdown, ODP IP23...



## SMOKEPILL MOTOR

- Rating from 0,18 to 315kW
- Single speed 2 to 8 pole, or dual speed
- Test passed on 3rd party EU laboratory
- F200, F300 & F400 acc. EN12101-3





## PM MOTOR

- Rating from 0,75 to 400kW, 2 to 6 pole
- Up to 6500rpm max speed
- Encoder / Resolver options
- IE4 efficiency
- Compatible with TECO inverters E510s, E710, A510 & F510



## IE5

- Rating from 0,75 to 315kW, 2 to 6 pole
- Frame sizes 80 to 355
- Standard induction motor – no VFD required
- Interchangeable with standard IE3/IE4

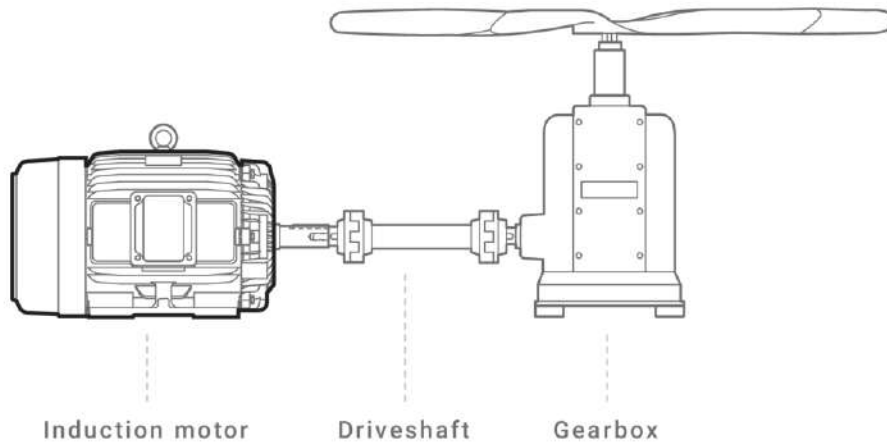




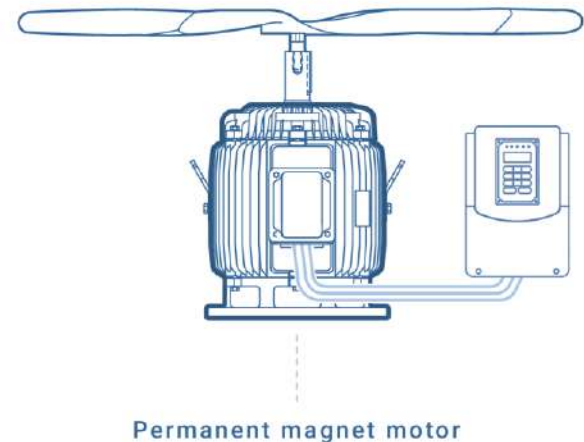
## COOLING TOWER SOLUTION

- Direct Drive PM motor. No need of gearbox
- Low speed PM motor in combination with TECO inverter A510s
- Higher efficiency at lower cost and less maintenance

Traditional Cooling Tower



Direct Drive Cooling Tower





**Thank you**