



**eTETA**  
ELECTRIC



**MA510**  
**series**

# THE COMPELECT MOTOR

## CONTROL SOLUTION



### Contents

Applications.....03

Specifications.....04

Wiring Diagram.....06

Selection Guide.....07

Dimensions.....09

ETETA

## The Complete Motor Control Solution

with power for a wide range of applications

### Gravitational Handling Equipment

| crane

### Metal Processing Machine

| Press , Lathes

### Plastics / Rubber Processing Machine

| Extruder , Injection Molding Machine

### Tension Control Equipment

| Printing Machine , Reeling Machine

### Textile Machine

| Dyeing and Finishing Machine

### Wire/Cable Making Machine

| Wire Drawing Machine



# SPECIFICATION

## I/O Features

Input Voltage Range

380 / 220 V±15%

Input Frequency Range

0 ~50 HZ

Output Voltage Range

0~220/380V

Output Frequency Range

0~600 HZ

## I/O Terminals

Input Terminals

Digital Input : 7 , High speed pulse : 1

Analoge Input : 2 , AI1: -10V~10V , AI2: 0~10V or 0~20mA

Output Terminals

Open Collector / High speed pulse output : 1

Relay output : 2

Analoge output : 2 , AO1: 0/4~20mA or 0~10V

Communication terminals

RS-485 , Modbus-RTU

## Control Function

Control Mode

V/F control, Sensorless vector control(SVC)

Speed Adjusting Range

1:100(SVC)

Overload Capacity

150% rated current 60s, 180% rated current 10s

Frequency Reference Source

Keypad,Analoge Input,HDI,Serial Communication,Multi-step speed

Simple PLC and PID The combination of multi-modes and switch between modes

Other Functions

Traverse Control Function

PID Control Function

Simple PLC, Multi-Steps Speed Control Function:16 Steps speed can be set

None-Stop when instantaneous power off

# SPECIFICATION

## Control Function

## Other Functions

Speed Trace Function : Smoothly start the running motor

Automatic Voltage Regulation Function (AVR)

Up to 23 fault protection : over current,over voltage,under voltage

Over voltage , over temperture, phase failure, etc.

## Man-machine Interface

### LED Display

setting frequency,output frequency,output voltage,output current. etc.

### Multi-Function Key-press

The QUICK/JOG key-press can be used as multi-function key-press

## Environmental constraint

### Temperature

(-10C° ~ +40C°) Inverter will be derated if ambient temperature exceeds 40C.

### Humidity

≤90% , without condensation

### Altitude

≤1000M , output rated power

>1000M , output power with derating

### Impingement and Oscillation

The inverter is prohibited to drop on floor or with suddenly impact

It also prohibited to be installed at the place where the oscilation may occur

### Electromagnetic Radiation

The inverter is prohibited to be installed at the place where

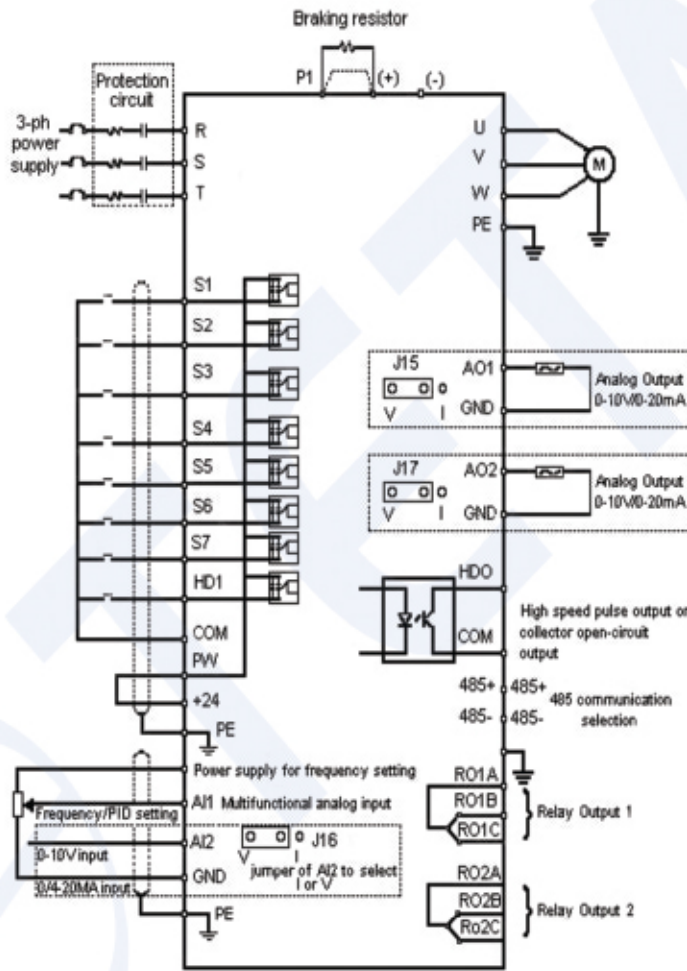
Strong electromagnetic radiation may occur

### Store Environment

The inverter is prohibited to be stored at the place where with

Direct sunlight , fall of oil mist, steam and with heavy oscillation.

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- \*1: Only the master circuit of 380 V 1~20HP (included) or models of lower capacity with built-in braking resistor provide terminal PB. The braking resistor can be connected directly between (+) and PB
- \*2: The wire length of the braking resistor should be less than 5m
- \*3: Please pay attention to safety prevention and smooth ventilation when installing braking resistors because the temperature will rise for the heat releasing
- \*4: The (+) and (-) terminals of the braking units corresponds to the (+) and terminals of the inverter when the external braking unit is connected
- \*5: The wiring length between the (+) and (-) terminals of the inverter and the (+), (-) of the braking units should not be more than 5m and the distributing length among BR1 and BR2 and the braking resistor terminals should not be more than 10m

# SELECTION GUIDE

Model Number	Input Voltage	Rated Power (kw)	Rated input current (A)	Rated output current (A)	Compatible Motor (HP)
MA510-2001	3-phase 220V ±15%	0.75	5	4.5	1
MA510-2002		1.5	7.7	7	2
MA510-2003		2.2	11	10	3
MA510-2005		4	17	16	5
MA510-2008		5.5	21	20	7.5
MA510-2010		7.5	31	30	10
MA510-2015		11	43	42	15
MA510-2020		15	56	55	20
MA510-2025		18.5	71	70	25
MA510-2030		22	81	80	30
MA510-2040		30	112	110	40
MA510-2050		37	132	130	50
MA510-2060		45	163	160	60
MA510-2075		55	181	190	75

OTEETA

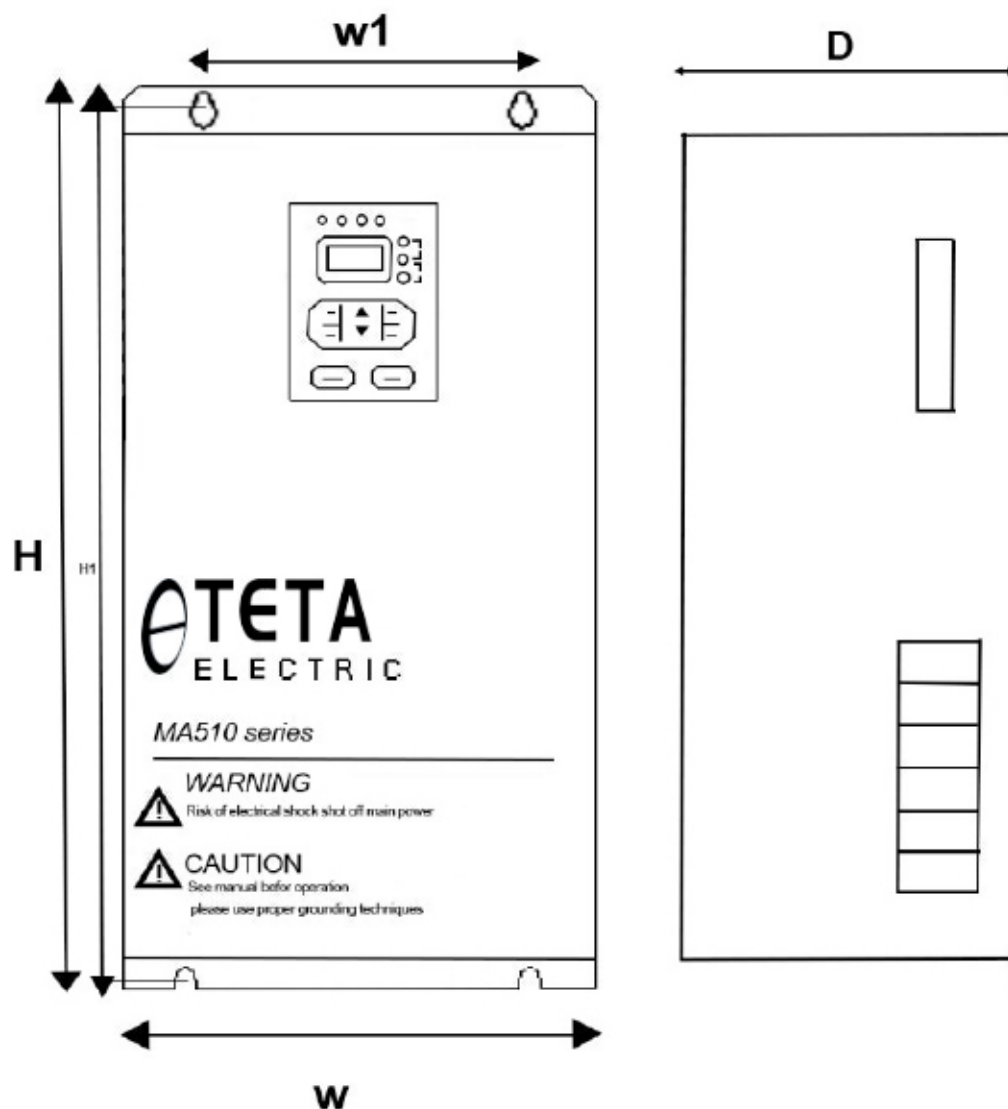
# SELECTION GUIDE

Model Number	Input Voltage	Rated Power (kw)	Rated input current (A)	Rated output current (A)	Compatible Motor (HP)
MA510-4001	3-PHASE 380V ±15%	0.75	3.4	2.5	1
MA510-4002		1.5	5	3.7	2
MA510-4003		2.2	5.8	5	3
MA510-4005		4	10	9	5
MA510-4008		5.5	15	13	7.5
MA510-4010		7.5	20	17	10
MA510-4015		11	26	25	15
MA510-4020		15	35	32	20
MA510-4025		18.5	38	37	25
MA510-4030		22	46	45	30

Model Number	Input Voltage	Rated Power (kw)	Rated input current (A)	Rated output current (A)	Compatible Motor (HP)
MA510-4040	3-PHASE 380V ±15%	30	62	60	40
MA510-4050		37	76	75	50
MA510-4060		45	90	90	60
MA510-4075		55	105	110	75
MA510-4100		75	140	150	100
MA510-4125		90	160	176	125
MA510-4150		110	210	210	150
MA510-4175		132	240	250	175
MA510-4215		160	290	300	215
MA510-4250		185	330	340	250



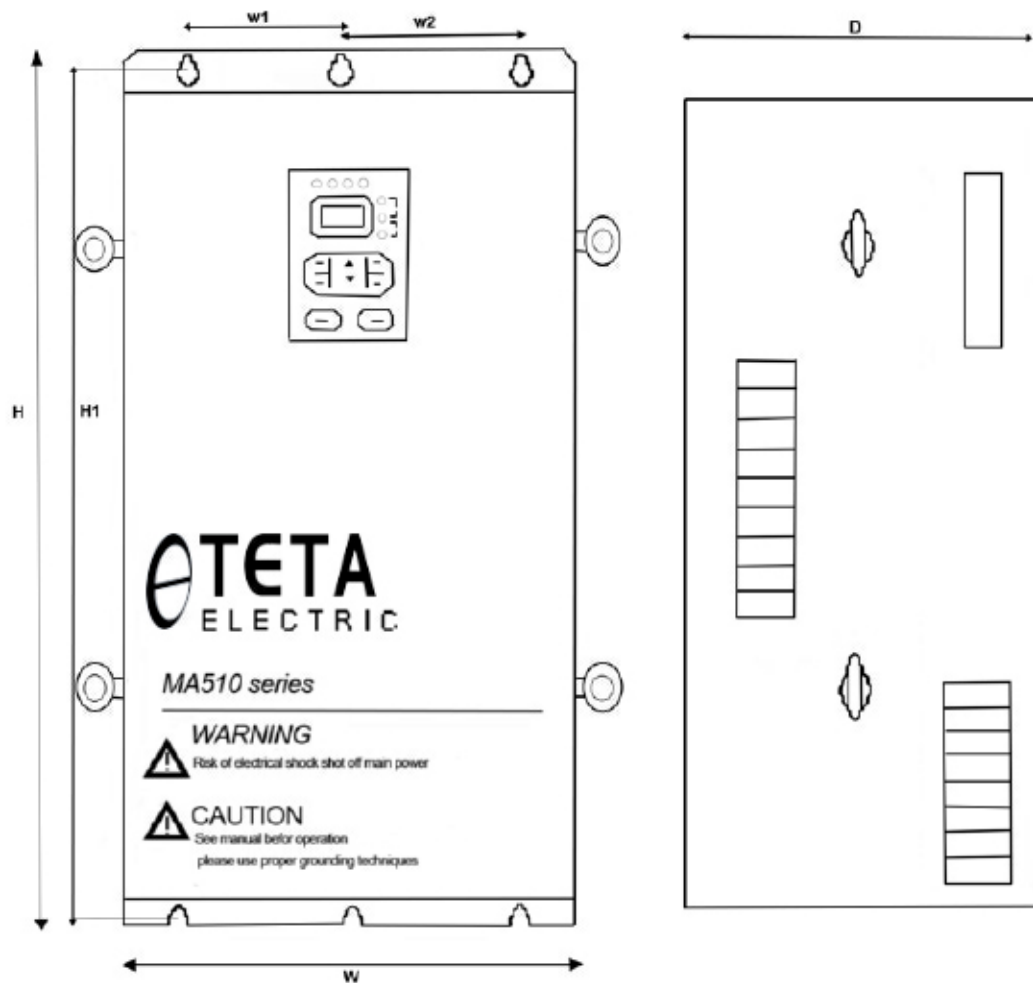
# DIMENSIONS



## a) 380 v : 25 HP ~ 40 HP

Inverter Model	Dimension (mm)					
	W	H	D	W1/W2	H1	GW(KG)
MA510-4025	290	470	215	175	460	12
MA510-4030	290	470	215	175	460	12
MA510-4040	290	470	215	175	460	12

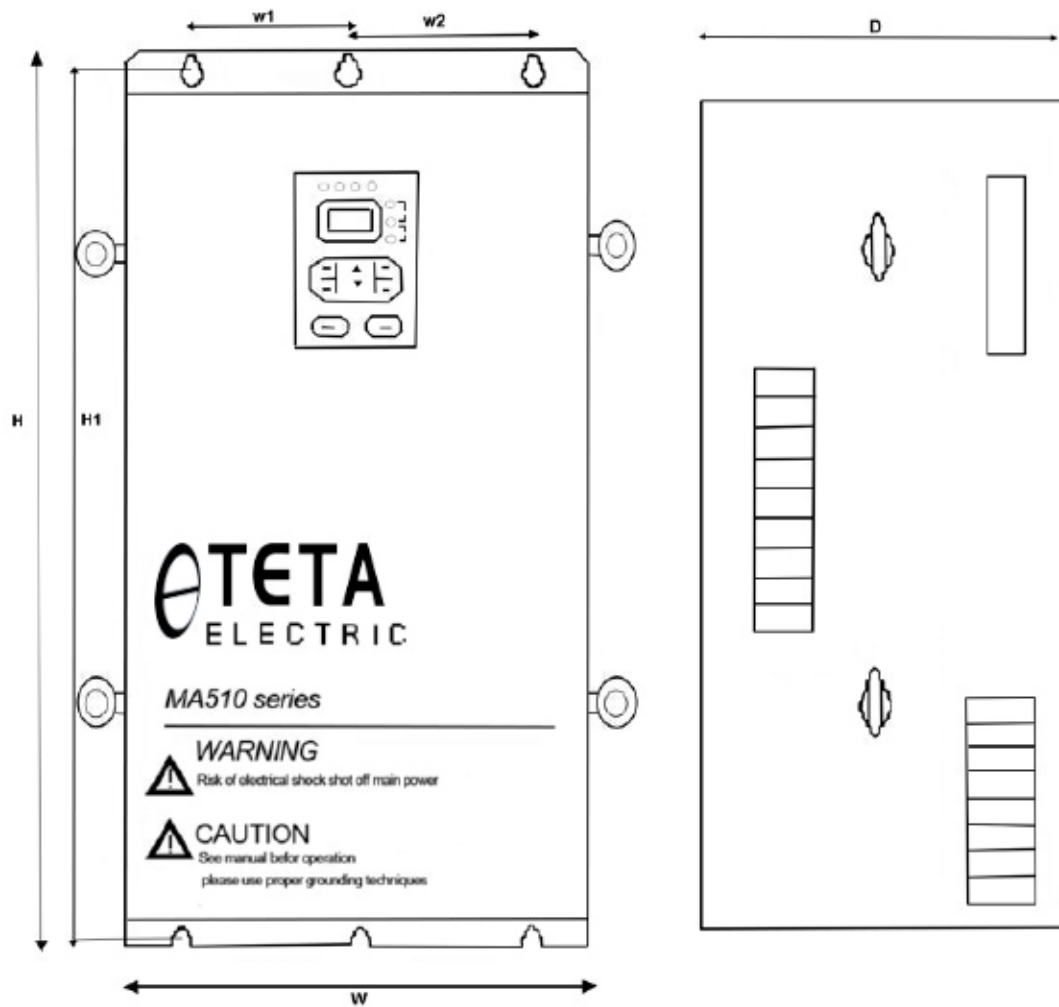
# DIMENSIONS



## b) 380 v : 50 HP ~ 75 HP

Inverter Model	Dimension (mm)					
	W	H	D	W1/W2	H1	GW(KG)
MA510-4050	375	585	270	115	665	36
MA510-4060	375	585	270	115	665	36
MA510-4075	375	585	270	115	665	36

# DIMENSIONS



## c) 380 v :100HP ~ 150 HP

Inverter Model	Dimension (mm)					
	W	H	D	W1/W2	H1	GW(KG)
MA510-4100	460	755	330	160	735	48
MA510-4125	460	755	330	160	735	48
MA510-4150	460	755	330	160	735	48



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