



## Acon Drive Aztec Series Frequency Inverter Catalogue

Vector Control Frequency Inverter  
Single & Three Phase  
0.75KW ~ 450KW

## Acon Solutions Manufacturing, SA de CV

Calle Luis N. Morones #27, Col. Lázaro Cárdenas, Guadalajara, Jalisco, México.  
Tel: +52 (33) 3645-7882  
E-mail: [ventas@aconsolutions.net](mailto:ventas@aconsolutions.net)  
website: [www.aconsolutions.net](http://www.aconsolutions.net)

Acon Solutions Manufacturing

## Company Profile



**ACON has been making effort in drive and control field!**  
**ACON has been adhering competitive price for customers!**  
**ACON has been taking care of developing together with partners!**

Welcome to visit ACON Group Corporation!

We have 1 factory, 1 headquarter, 2 warehouse and more than 820 staff. As a professional manufacturer of industrial automation products, we are always dedicated to soft starter, frequency inverters, servo motor and drive, EMI filters, harmonic wave AC chokes, sine wave filters and brake units and resistors. In the year of 2008, ACON does have established "Acon Solutions" to cultivate mexican market.

We have following mature series product:

ACON-GJ/GS series soft starter, (220V/380/480V/690V ±15%; 5.5KW~ 630KW).

WARRIOR series VF control inverter, (220V/380V/480V ±15%; 0.75KW~630KW).

CHIEF series sensorless vector control inverter, (220V/380V/480V/575V/690V ±15%; 0.75KW~630KW).

AZTEC series vector control inverter with PG (including elevator and lift drive). (220V/380V/480V/690V ±15%; 0.75KW~450KW)

ASA to ASD series servo motor drive system.(220V/380V ±15%;0.2~22KW)

And relative accessories, such as input filter, output filter, input choke , output choke, DC choke and sine wave filter, brake unit and resistor and aluminum resistor.

Our company's feature is good products with competitive price!

We are sincerely looking for worldwide partners to cooperate with us to build a win-win market environment.

## Quality Guarantee

ACON company has heavily invested constructing products laboratory in 2011, including EMC laboratory, inverter laboratory, explosion-proof inverter laboratory and safety laboratory and environmental laboratory. Present laboratory overall level has reached the domestic industry leading level, can satisfy many test requirements of frequency inverter, such as EFT, ESD, conduction, and special performance, etc.



Motor laboratory



EMC laboratory



Environmental laboratory



Shielding room



Isolation frequency conversion laboratory



Frequency laboratory

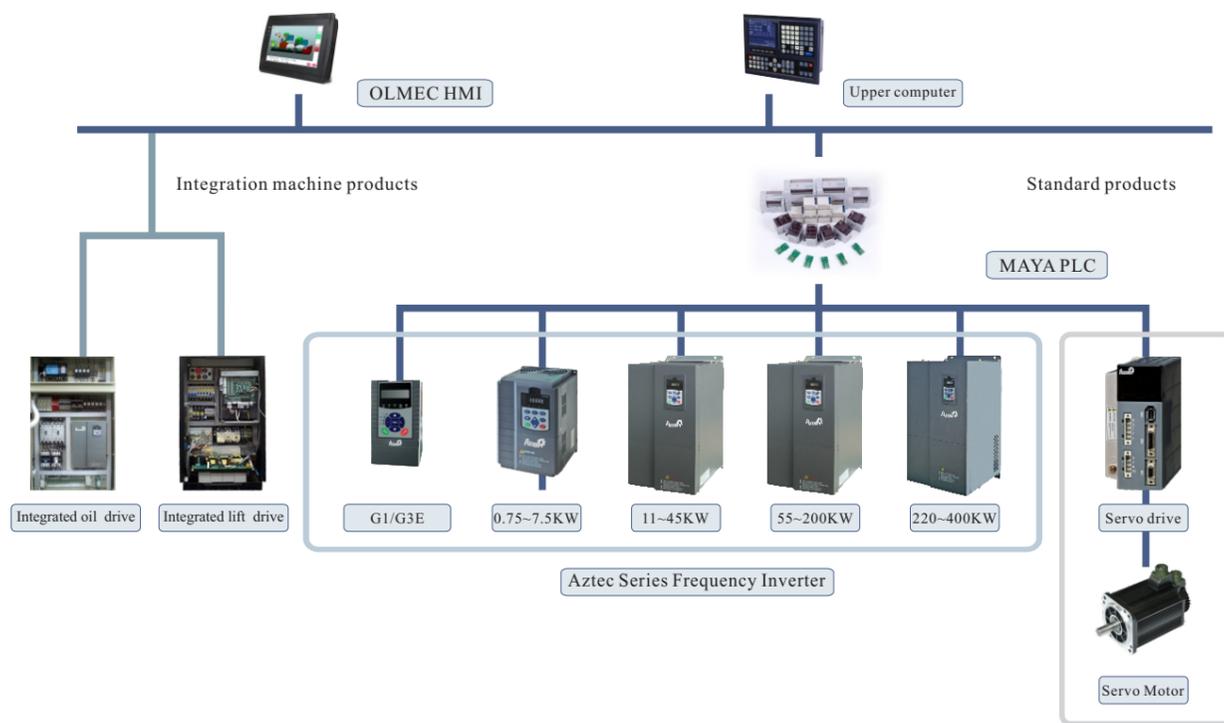


Hydraulic press machine



Production field

## General Solution of ACON



## Aztec Series vector control frequency inverter introduction:



- Strong current vector control performance.
- Can drive asynchronous motors and synchronous motors.
- Abundant optional expansion card.
- Built-in RS485 communication interface.
- Support user-programmable control card.
- Support Voltage: 220V, 380V, 480V, 690V, 1140V.
- Perfect background monitoring function: fast oscilloscope function, parameters updating in real time, alarm record, etc.
- Six kinds of control models include sensor less vector control, vector control with PG, V/F control without PG, V/F control with PG.
- Support two sets of motor parameters; more than thirty kinds of protection functions; full range of protection for the inverter
- Adopted modular design, on the premise of meeting customers' common demands, to flexible meet customized needs and industry requirements by extending the design.



## Aztec series frequency inverter

Aztec series inverter is based on the accurately understanding of ACON for customers' requirements, inheriting the consistent pursuit of ACON for high-quality, high reliability. Aztec series inverter will bring you a new using

### 1 Perfect Performance

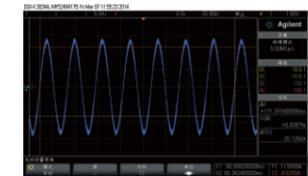
#### Support various motors' vector control

- Support vector control for three-phase AC asynchronous motor and three-phase AC synchronous motor.
- Support vector control for permanent magnet



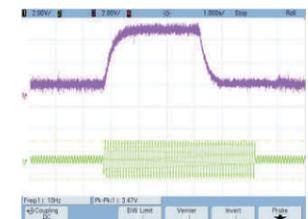
#### High starting torque characteristics

- Aztec inverter can provide 150% starting torque at 0.5Hz (open loop vector control without PG). And can provide 180% torque at zero speed in 0Hz (with PG close loop vector control).



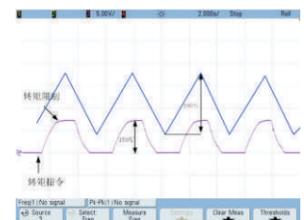
#### Rapid respond time

- Under sensorless vector control, torque response



#### Torque limit to protect the machinery

- Aztec series inverter can provide torque limit, when torque command exceeds the maximum affordable torque of the machinery, the torque can be limited to less than the preset maximum torque, and on the premise of playing a maximum efficiency of machinery to protect equipment safety.



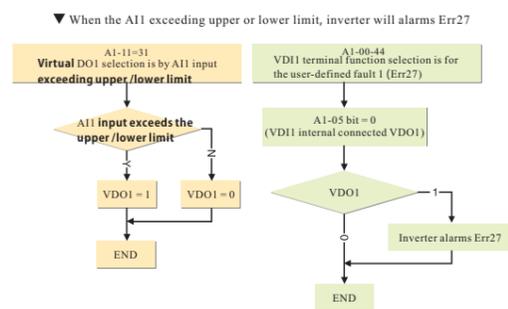
#### The new speed SVC performance

- Sensorless speed vector control, can run at 0hz and can output 150% rated torque at 0.5Hz.
- Sensorless vector control reduced sensitivity of the motor's parameters setting to improve the site adaptability.
- Can be used for winding control, for multi-motor

## 2 Powerful Function

### Virtual IO functions

- 5 groups virtual DIDO can be set, state of the virtual DI terminals can be directly given by parameters or bind with the corresponding virtual DO function.

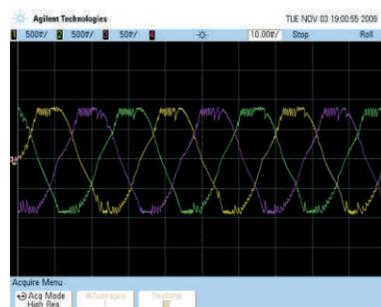


### Flexible and practical analog input / output

- Each analog input (AI1 ~ AI3), can be separately set five-point curves, more flexible function.
- AI1 ~ AI3 can be factory calibration or user calibrate linearity curve in the site, after calibration, accuracy can be 20mV.
- AO can be factory calibration or user calibrate linearity curve zero drift and gain in the site. after calibration, accuracy can be 20mV.
- AI1 ~ AI3 can be used as DI.
- AI3 is isolated inputs port, it can be used as  $\pm 10V$  input.

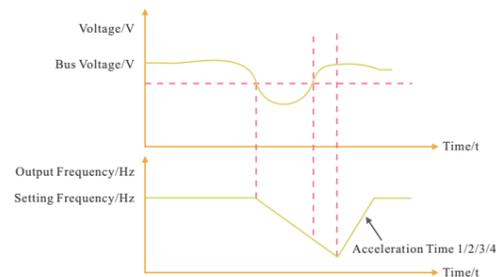
### Fast current limit function

- Fast current limit function prevents the inverter frequently over current alarm. When the current exceeds the protection points, fast current limit function can quickly limit current below protection point to protect the safety of equipment, and to avoid over-current alarm caused by suddenly adding load or interference.



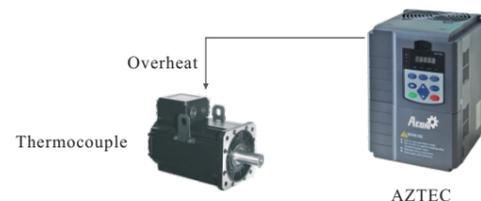
### Instantaneous power off but not stop

- This feature means during instantaneous power off, inverter will not stop. In the case of an instantaneous power failure or a sudden decrease in voltage, the inverter reduces the output speed, by using the load feedback energy to compensate voltage reducing and to maintain the inverter continues running in a short time.



### Motor overheating protection

- Using input and output expansion card, PG expansion card accepts motor temperature sensor input. When the motor's temperature exceeds the warning value, the inverter outputs pulse signal to warn over-heat. When the temperature exceeds the motor overheating protection, inverter will alarm fault to protect motor properly.



### Multi-motor switching

- Can save two groups of motor parameters, two motors' switching control can be achieved and enable to switch between synchronous motor and asynchronous motor.



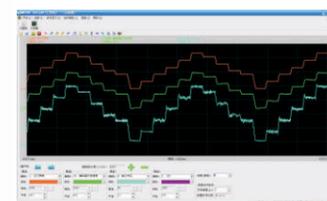
## 3 Convenient Application

### Strong software

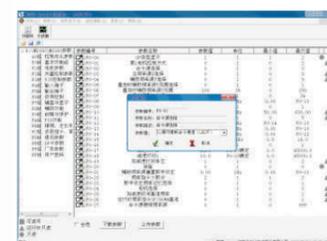
- The software can upload and download inverter parameters, has real-time function of oscilloscope.



◆ Back ground interface of function code



◆ Oscilloscopes



◆ Modify the background inverter parameters

### Restore user parameters

- The debugging or wrong operation leads to parameter confusion, user can select to restore the factory setting; also can restore the saved parameters to avoid causing confusion.

Restore factory settings

Restore user parameters

### Support various fieldbus

- Support for multiple bus communication modes, and convenience for connecting various peripheral settings.

Support Type: RS485  
PROFIBUS-DP

## 4 Reliability Design

### Above 7.5KW inverter optional DC reactor

- Effectively improve the power factor of input.
- Improve the efficiency and thermal stability of the inverter.
- Effectively eliminate influence of the higher harmonics of the input side of the inverter, reducing

### Environment-resisting design

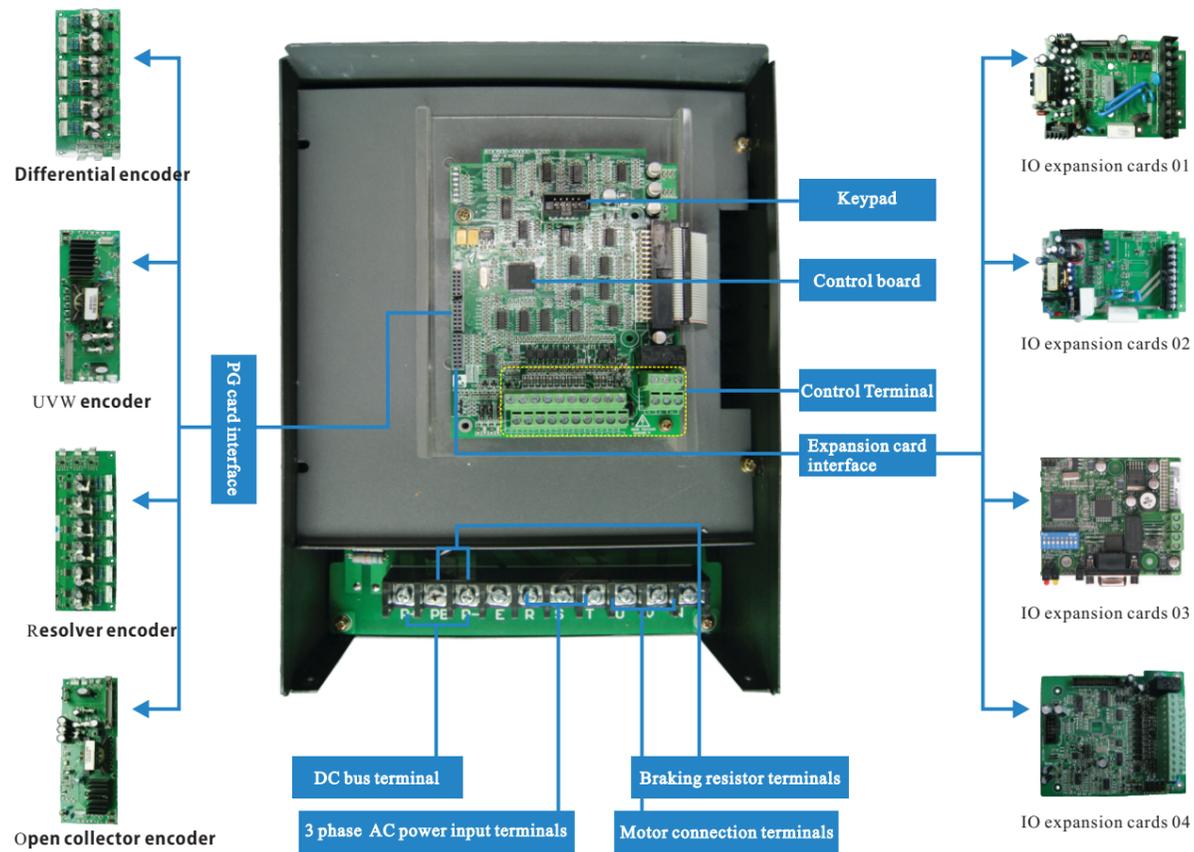
- With three-proof paint treatment process (dust-proof, moisture proof, mold-proof).
- Wide voltage range design.
- A full range of independent air duct design.
- Conform to the RoHS standard

### Easy to replace Fan

- Replacement of fan is simple, so use is convenient to clean, maintain and replace.



## 5 Rich Expansion Capability

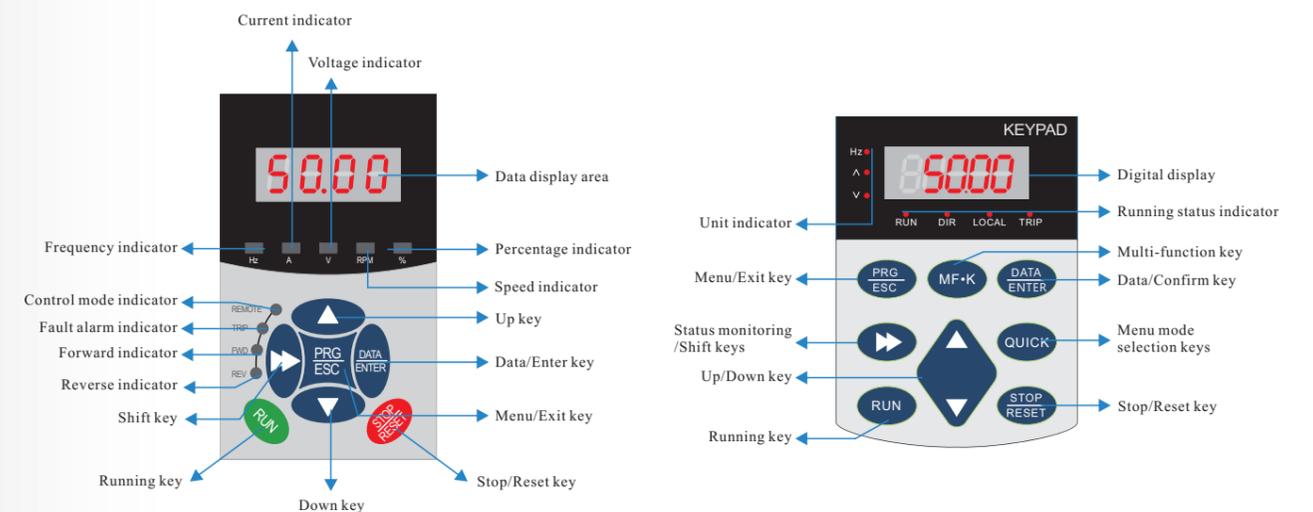


## 6 User Programmable Control Card



- The communication of PLC and inverter's main CPU is very fast, which can finish updating data within 2ms.
- User's software can operate on the internal variables and all ports resources of inverters.
- Program method can be selected, and that is compatible with a variety of PLC.

## 7 Easy for Operation



AZTEC G1E/G3E series operating keypad diagram

AZTEC G3 series operating keypad diagram

### User resources of supplying to the external

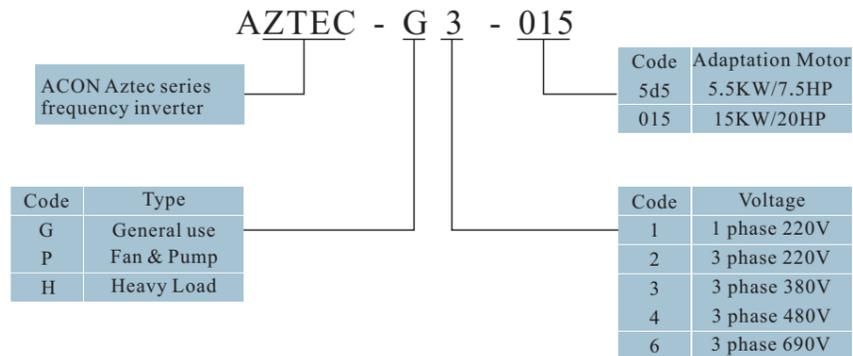
- User resources of supplying to the external include : 1\*AI,1\*AO,5\*DI,2\*RELAY,1\*RS485.

Description	Number	Explain
Analog input	1	Isolated input, $\pm 10V / \pm 20mA$ analog input .
Analog output	1	0 ~ 10V / 0 ~ 20mA output.
Digital input	5	Ordinary digital input <100Hz.
Relay output	2	Normally open.
Communication (RS485)	1	Provide with Modbus in master / slave station.

### With extra functions of standard PLC plus standard drive

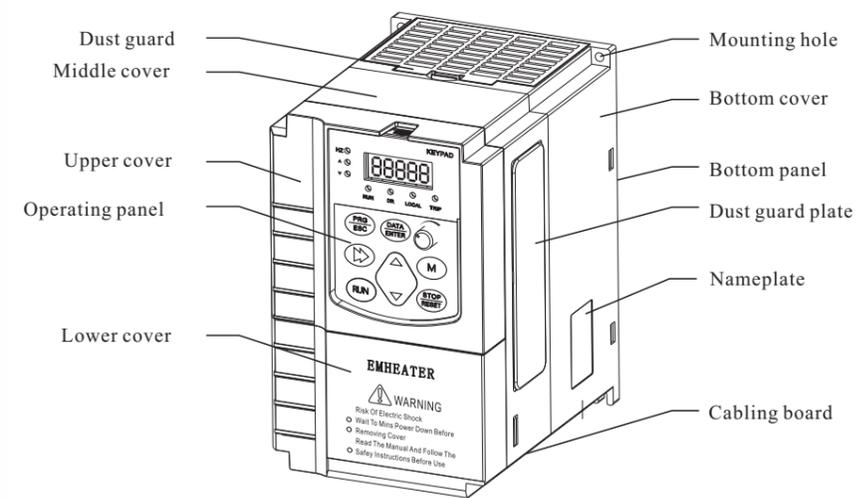
- PLC operates the drive internal variables and port resources.
- Drive offer a dedicated parameter values for PLC internal program.
- The drive supports special fault code of PLC.
- 2ms data exchanging cycle.
- Drive provides special surveillance for monitoring PLC internal variables.

## 8 Model and Technical Data

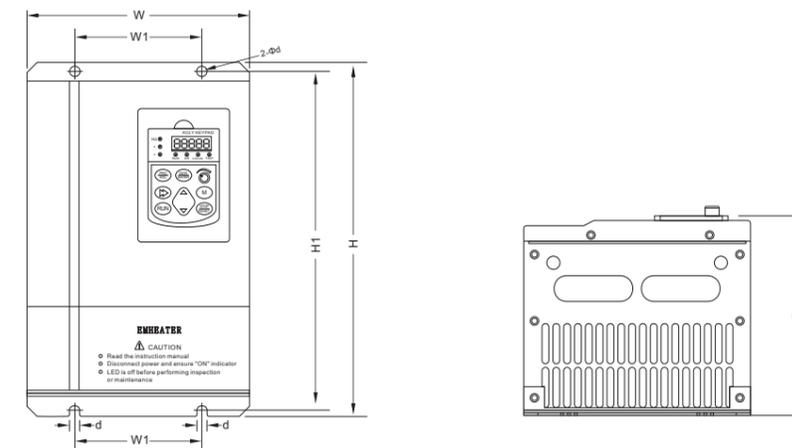


Model	Power Capacity (kVA)	Input Current (A)	Output Current (A)	Adaptation Motor	
				(kW)	(HP)
Single phase 220V, 50/60Hz					
AZTEC-G1-d75	1.5	8.2	4.0	0.75	1
AZTEC-G1-1d5	3.0	14.0	7.0	1.5	2
AZTEC-G1-2d2	4.0	23.0	9.6	2.2	3
Three phase 380V, 50/60Hz					
AZTEC-G3-d75	1.5	3.4	2.1	0.75	1
AZTEC-G3-1d5	3.0	5.0	3.8	1.5	2
AZTEC-G3-2d2	4.0	5.8	5.1	2.2	3
AZTEC-G3-004	5.9	10.5	9.0	3.7	5
AZTEC-G3-5d5	8.9	14.6	13.0	5.5	7.5
AZTEC-G3-7d5	11.0	20.5	17.0	7.5	10
AZTEC-G3-011	17.0	26.0	25.0	11.0	15
AZTEC-G3-015	21.0	35.0	32.0	15.0	20
AZTEC-G3-018	24.0	38.5	37.0	18.5	25
AZTEC-G3-022	30.0	46.5	45.0	22	30
AZTEC-G3-030	40.0	62.0	60.0	30	40
AZTEC-G3-037	57.0	76.0	75.0	37	50
AZTEC-G3-045	69.0	92.0	91.0	45	60
AZTEC-G3-055	85.0	113.0	112.0	55	75
AZTEC-G3-075	114.0	157.0	150.0	75	100
AZTEC-G3-090	134.0	180.0	176.0	90	125
AZTEC-G3-110	160.0	214.0	210.0	110	150
AZTEC-G3-132	192.0	256.0	253.0	132	200
AZTEC-G3-160	231.0	307.0	304.0	160	250
AZTEC-G3-200	250.0	385.0	377.0	200	300
AZTEC-G3-220	280.0	430.0	426.0	220	300
AZTEC-G3-250	355.0	468.0	465.0	250	400
AZTEC-G3-280	396.0	525.0	520.0	280	370
AZTEC-G3-315	445.0	590.0	585.0	315.0	500
AZTEC-G3-355	500.0	665.0	650.0	355.0	420
AZTEC-G3-400	565.0	785.0	725.0	400.0	530
Three phase 690V, 50/60Hz					
AZTEC-G6-055	84.0	70.0	65.0	55	70
AZTEC-G6-055	107.0	90.0	86.0	75	100
AZTEC-G6-090	125.0	105.0	100.0	90	125
AZTEC-G6-110	155.0	130.0	120.0	110	150
AZTEC-G6-132	192.0	170.0	150.0	132	175
AZTEC-G6-160	231.0	200.0	175.0	160	210
AZTEC-G6-200	250.0	235.0	215.0	200	260
AZTEC-G6-220	280.0	247.0	245.0	220	300
AZTEC-G6-250	355.0	265.0	260.0	250	350
AZTEC-G6-280	396.0	305.0	299.0	280	370
AZTEC-G6-315	445.0	350.0	330.0	315	420
AZTEC-G6-355	500.0	382.0	374.0	355	470
AZTEC-G6-400	565.0	435.0	410.0	400	530
AZTEC-G6-450	630.0	490.0	465.0	450	600
AZTEC-G6-500	700.0	595.0	550.0	500	660

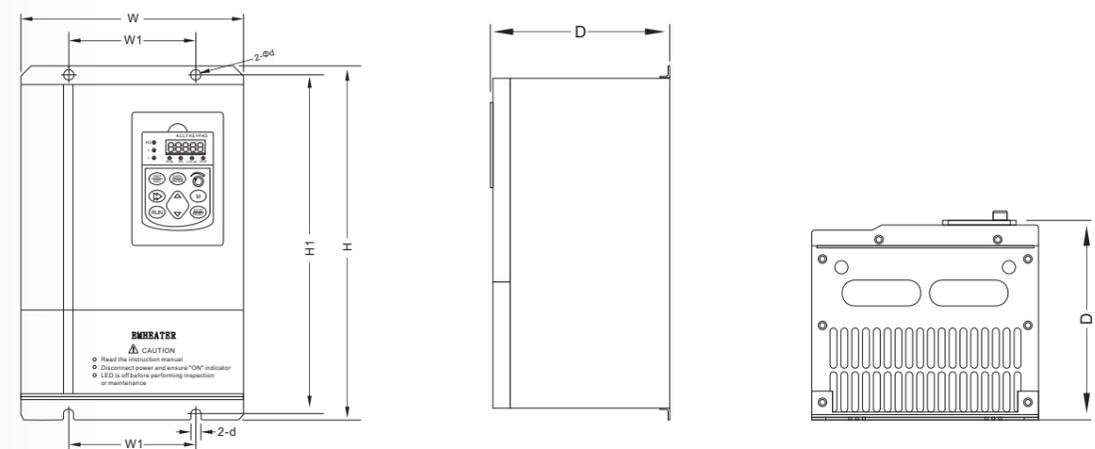
## 9 Physical Appearance



Frequency inverter appearance diagram



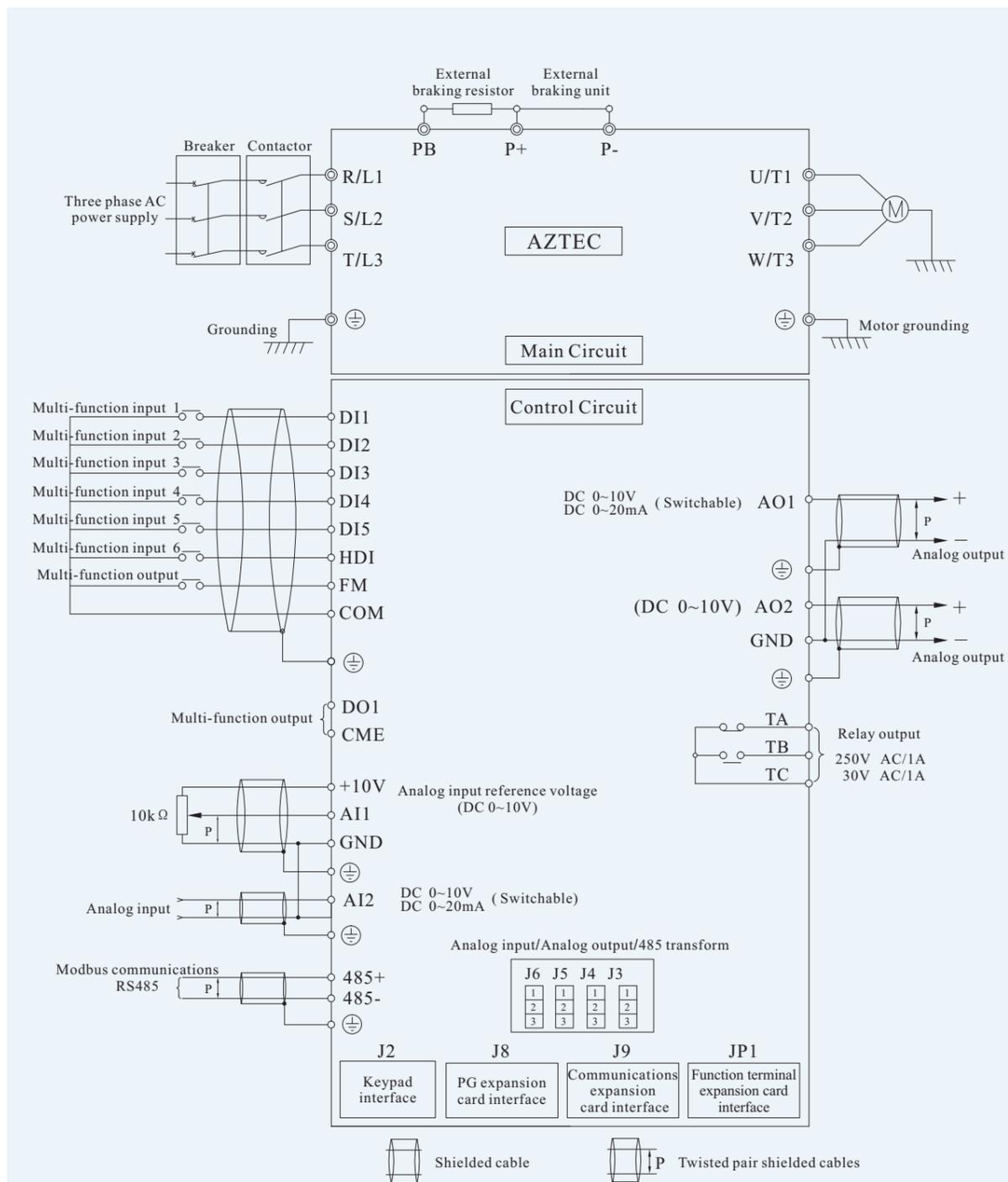
0.4KW~15KW frequency inverter installation dimensions diagram



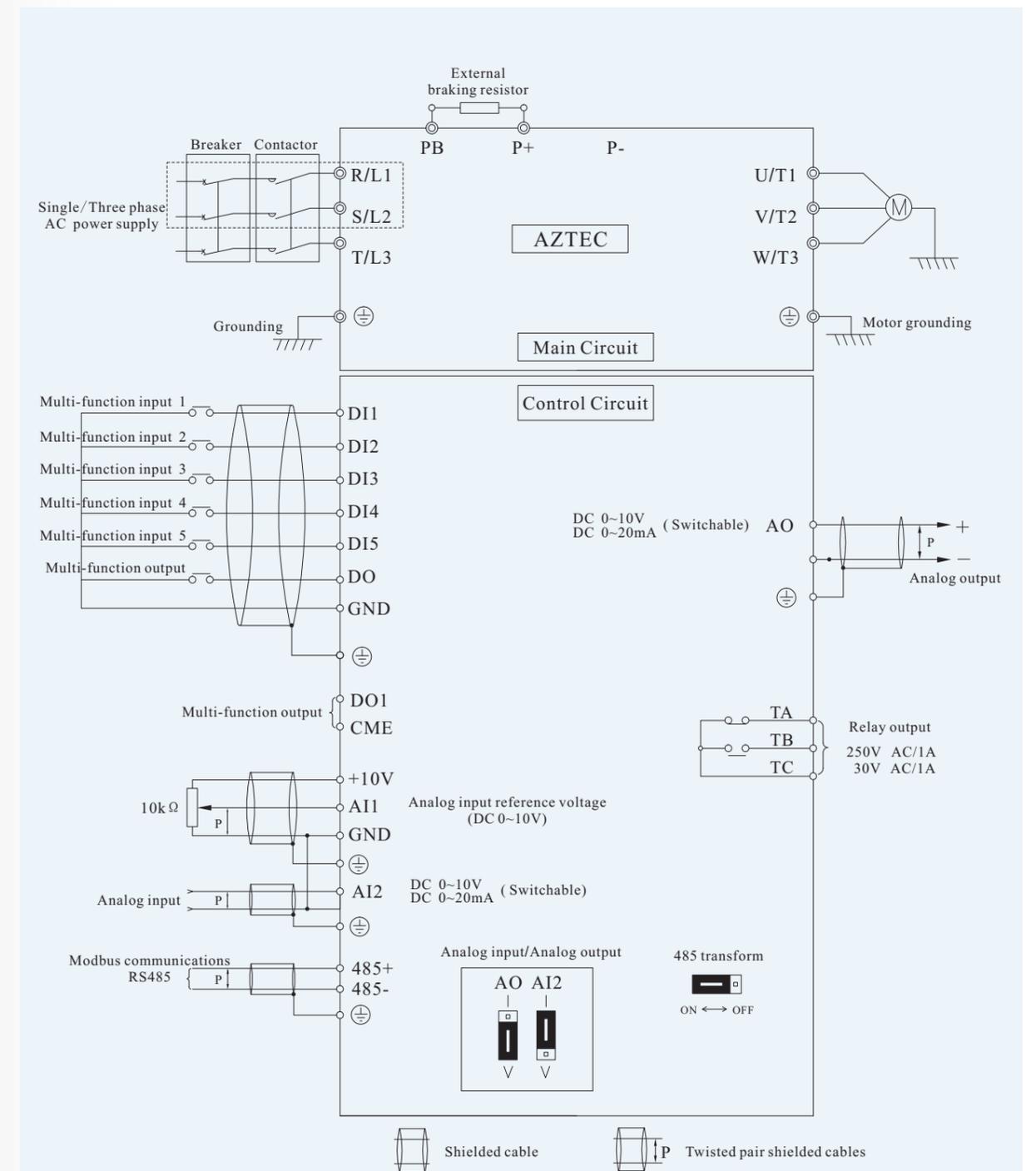
18.5KW~400KW frequency inverter installation dimensions diagram



# 12 Typical Wiring Diagram



AZTEC Three phase 380V~690V inverter diagram



AZTEC Single/Three phase 220V/380V inverter diagram

# 13 Industry Selection Table

Application Industries	Application Equipment	Model	Feature
Standard products series	AZTEC-S series: Vector control inverter for servo AZTEC-T series: Torque control frequency inverter AZTEC-G1E/G3E: Economy vector control inverter for general use Voltage range: 220V/380V/480V/690V.	AZTEC-L series : Vector control inverter for lift AZTEC-G series: Vector control frequency inverter for general use AZTEC-P series : Vector control frequency inverter for fan or pump Power range: 0.4~630KW.	
Stone, brick and wood	Brick molding machine	AZTEC-G series	Energy saving, big torque quickly move up and down.
	Stone sawing machine	AZTEC-G series	Torque current control uniform cutting and big torque with low speed.
	Rotary cutter/Skiving machine	AZTEC-G series	Start and stop quickly, built-in crafts control.
	Wood planing machine	AZTEC-G series	Steady speed with high accuracy and big torque, high yield of production ratio.
Plastics processing / Extrusion processing	Injection molding machine (Asynchronous motor)	AZTEC-G series	Standard inverter cabinet with injection molding signal card.
	Injection molding machine (Asynchronous motor)	AZTEC-G series	Energy saving cabinet built in inverter and bypass.
	Injection molding machine (Asynchronous motor)	AZTEC-G series	Built in charging function to support mode of contract saving energy.
	Injection molding machine (Synchronous servo)	AZTEC-S series	High efficient and energy-saving double closed loops of pressure and flow.
	Extruder	AZTEC-G series	Extrusion force is big, Avoid tripping, uniform extruding flow.
	Die-casting machine	AZTEC-G series	Quickly and strong force output, Multiple pumps have good synchronization performance.
Textile industry	Blowing machine	AZTEC-G series	High energy-saving rate, with conversion of inverter and grid power.
	Circular knitting machines	AZTEC-G series	high starting torque, adapt to wide voltage fluctuation.
	Spinning frame(protective)	AZTEC-G series	Airtight structure can avoid air duct blocked, Wobble function.
	Spinning frame(technical)	AZTEC-G series	built in working records and techniques' curve.
	Draw Texturing Machine	AZTEC-G series	Built-in closed loop, realized high precision synchronous.
	Doffer	AZTEC-G series	Fixed-length function.
Machine tool	Reeling machine	AZTEC-G series	Realized permanent magnet synchronous motor open loop control.
	Carves-milling machine / Drilling machine	AZTEC-G series	3000Hz
	Open-loop spindle	AZTEC-G series	Big cutting forces, steady speed and high precision.
	Closed-loop spindle	AZTEC-T series	Can realize multi-point positioning.
	Grinder	AZTEC-G series	Can stable operation at high speed.
Metal processing	High speed communication drive	AZTEC-G series	Terminal RS485 support 500k communication rate.
	Double variable frequency wire-drawing machine	AZTEC-G series	Two drives be used cooperatively, one drive for drawing and another for winding up.
	Straight wire-drawing machine	AZTEC-G/T series	Tensile control is smoothly and processing, both solution are workable, with or without oscillating bar.
	Tiny wire-drawing machine	AZTEC-G series	Drawing 0.001 mm filaments is available.
	Power line frame	AZTEC-G series	Synchronous working.
	Motor alternative torque winding up	AZTEC-T series	Widely use, Pioneering open-loop tension control.
	Steel bar cutting machine	AZTEC-T series	Fixed-length cutting with high accuracy.
	Cold-rolling mill	AZTEC-T series	Good synchronous performance, adjusting speed conveniently and response of torque is fast.
Fan/Water Pump/ Air-condition / Air compressor	Fan	AZTEC-P series	Support built-in Speed tracking card.
	Water supply(drive one motor)	AZTEC-P series	Built -in Pressure closed loop and dormancy awakening, protection function of over pressure.
	Water supply(drive many motors)	AZTEC-P series	Built -in extension water supply card, realized one drive for multiple pumps with clock function.
	Central air-conditioner /Refrigerator	AZTEC-G series	Realized thermostatic control, high Energy-saving rate.
	Matching with new air compressor	AZTEC-G series	Small volume and high efficiency, frequency inverter and air compressor be used cooperatively.
	Air compressor reforming	AZTEC-G series	Energy-saving and high efficiency specialized all-in-one inverter support, extensible air compressor controller.
	Automotive air conditioning	AZTEC-G series	For logic control of built-in air compressor.

Application Industries	Application Equipment	Model	Feature
Printing and Packaging Machine	Splitting machine/ Laminating machine	AZTEC-T series	Itself roll diameter calculation replaces PLC, multipoint synchronous transmission.
	Coiler for trimmings / Rewinding machine	AZTEC-G series	Have wire breakage alarm, automatic shutdown, rocker, floating roller once in place.
	Plastic blow molding machine	AZTEC-G series	Super performance of fast acceleration and deceleration, ensure product consistency.
	Creasing machine / Coating machine	AZTEC-T series	30g ultra-thin paper is workable, closed loop torque control.
	Leather machine	AZTEC-T series	Open loop torque control, speed control and torque control switching smoothly.
	Nets weaving machine	AZTEC-T series	Open loop torque control to knit nets thin wire.
	Paper machinery	AZTEC-T series	Bus control the actuator, multipoint drive.
	Corrugated paper cutter	AZTEC-T series	Super fast frequency response command, fast cutting speed, big torque power, and high accuracy.
	Anilox printing machine	AZTEC-G series	Reciprocating acceleration and deceleration used short time, precise positioning.
	Material receiving machine	AZTEC-G series	High Stability torque control mode makes stable rewinding.
Lifting equipment	Mine winch	AZTEC-G series	Stable and reliable operation, with mechanical brake to realize halfway stop and start.
	Running hook	AZTEC-T series	Low, medium and high multi-speed lifting and falling, do not slip the hook, can share common DC bus.
	Gantry	AZTEC-G series	Compatible with YASKAWA independent protocol.
	Ship machines / Cranes	AZTEC-G series	Wide operating voltage, low-voltage power shake can work continuously, strong environmental adaptability.
	Belt transport	AZTEC-G series	Multi-speed synchronous transmission performance is good; low-speed with large torque has heavy load capacity.
	Building Lifts	AZTEC-G series	Large lifting torque, energy-saving.
Oil field	Port lifting	AZTEC-L series	Port dedicated lifting capability, provide integrated power control cabinet.
	Pumping unit	AZTEC-G/T series	Built-in power-saving mode, the voltage and current limit functions.
	Oil transfer pump/Sand pump	AZTEC-G series	Zero-frequency hysteresis function can automatically start and stop according to working conditions.
	Pump integrated digital control cabinet	AZTEC-G series	Constant temperature outdoor cabinet with USB data storage and lines transfer capabilities.
Industrial power source and external power supply equipments	Standalone EPS	AZTEC-G series	Short-circuit protection is reliable, automatic reset operation, 50Hz output can directly connect with motor.
	System EPS	AZTEC-G series	Mature system solutions, 3ms synchronous tracking mains supply.
	FM Voltage Controlled Power Source	AZTEC-G series	220V/380V series, independently adjustable output voltage and frequency.
Other applications	Industrial washing machine	AZTEC-G series	Many brands supporting, large power washing, high speed dehydration stable.
	Centrifuge	AZTEC-G series	Large torque, fast acceleration and deceleration, applicable in harsh environments.
	Musical Fountain	AZTEC-G series	Large starting torque, current limit function, do not trip.
	Ceramic machinery	AZTEC-G series	Stable and reliable operation, anti-corrosion treatment.
	Mechanical vibrator	AZTEC-G series	Fast acceleration and deceleration performance, excellent feature for motor forward and reverse control.
	Pipe machine	AZTEC-G series	Multi-speed running, "bulldozer" feature.
	Electric door	AZTEC-G series	Built-in electric door positioning reaches self check program, the position-limit signal failure still automatically shut down.
	Belt scale	AZTEC-G series	Built-in weight flow calculator, which can dispense speed sensor and flow meter.
	Hammers/Tamping machine	AZTEC-G series	high efficiency energy-saving, large torque output, convenient change speed.
	Ball mill/Grinding machine	AZTEC-G series	Multi-segments speed running, can timing and large starting torque.
	Blender	AZTEC-G series	"bulldozer" feature to avoid trip, power module reliable control and protection.
	Treadmill	AZTEC-G series	Run speed steady with high precision, without anesthesia feet: strong load capacity.
	Torque drive	AZTEC-T series	torque control after the speed reaches the target output torque setting.
Escalator	AZTEC-G series	Two-way infrared sensor activated, automatic switching variable speed saving energy mode.	

## 14 Optional Parts

### Description

#### Differential PG card:

- 1 External, 5V power supply.
- 2 Support A, B, Z three differential inputs, wherein A, B, input signals up to 500kHz.
- 3 Differential frequency output (1:1 divider output differential signal).
- 4 Encoder interface is terminal.

#### UVW differential PG card:

1. External 5V power supply.
2. Supports A, B, Z, U, V, W six differential input signals, wherein A, B input signals up to 500kHz.
3. DB15 interface.
4. No differential frequency output.

#### Resolver transformer card:

1. 10kHz, 7V Rms excitation output.
2. Resolution: 12bit
3. DB9 interface.
4. No differential frequency output.

#### Open Collector PG card:

1. External 15V power supply.
- 2 Supports A, B, Z three-way open collector input, wherein A, B two input signals up to 100 kHz.
- 3 Differential frequency output (1:1 divider output differential signal).

#### Differential PG card:

- 1 External, 5V power supply.
- 2 Support A, B, Z three differential inputs, wherein A, B, input signals up to 500kHz.
- 3 Differential frequency output (1:1 divider output differential signal).
- 4 Encoder interface is DB9

#### IO expansion card and communication functions:

1. 1 channel isolation of analog input AI3, support  $\pm 10V$  input.
2. DI x 5, DO x 1, RELAY x 1, AO x 1.
3. 4KW and above power optional.

#### PROFIBUS-DP communication card:

1. 4KW and above power optional.

#### User-programmable control card:

1. 1 channel isolation of analog input AI3 interface, input  $\pm 10V$ ,  $\pm 20mA$ .
2. Control board matched with standard RS485 communication interface.
3. Common IO Interface: DI x 5, RELAY x 2, AO x 1.
4. 4KW and above power optional.

#### Isolation 485 adapter card.

#### External LCD display and keypad, enabling copy parameter.

## 15 Brake Components Prototyping

### Brake Components Selection Guide

The following table is to know the data, the user can select resistor's different resistance and power based on the actual situation, (the resistance must not be less than the recommended value in the table, and the resistor's power can enlarge.) Braking resistor selection according to the actual application of electrical power to determine, it has a relationship with the system inertia, acceleration time, energy and other potential loads, customers need to choose according to the actual situation. The greater the inertia of the system, the shorter the time required deceleration, the more frequently need to brake, the greater power of the braking resistor and the required resistance is smaller.

#### Resistance selection:

Braking, regenerative energy of the motor is almost completely consumed in the braking resistors. According to the formula:  $U * U / R - Pb$ .

- U of Formula --- braking voltage of stable braking system (different systems are different, for 380VAC system generally taking 700VDC).
- Pb --- Power of braking.

### Calculation of braking resistor's power

Theoretically, power of braking resistor is consistent with braking power; taking into account the drop to 70%. According to the formula:  $0.7 * Pr = Pb * D$ .

- Pr --- Power of resistor
- D --- braking frequency (representing regeneration proportions during the entire work process)

Elevator: 20% ~ 30%

Uncoiling and take roll: 20% ~ 30%

Centrifuge: 50% ~ 60%

Occasionally braking load: 5%

Generally: 10%

AZTEC inverter braking components selection table (with G type, for

Model	Braking resistor power	Braking resistors resistance value	Braking unit	Note
AZTEC-G1-d75	80W	$\geq 150\Omega$	Optional built-in	Add the letter "B" at the end of model.
AZTEC-G1-1d5	100W	$\geq 100\Omega$		
AZTEC-G1-2d2	100W	$\geq 70\Omega$		
AZTEC-G3-d75	150W	$\geq 300\Omega$		
AZTEC-G3-1d5	150W	$\geq 220\Omega$		
AZTEC-G3-2d2	250W	$\geq 200\Omega$		
AZTEC-G3-004	300W	$\geq 130\Omega$		
AZTEC-G3-5d5	400W	$\geq 95\Omega$		
AZTEC-G3-7d5	500W	$\geq 65\Omega$		
AZTEC-G3-011	800W	$\geq 43\Omega$		
AZTEC-G3-015	1000W	$\geq 32\Omega$		
AZTEC-G3-018	1300W	$\geq 25\Omega$		
AZTEC-G3-022	1500W	$\geq 22\Omega$		
AZTEC-G3-030	2500W	$\geq 16\Omega$		
AZTEC-G3-037	3.7kW	$\geq 16\Omega$		
AZTEC-G3-045	4.5kW	$\geq 12\Omega$		
AZTEC-G3-055	5.5kW	$\geq 12\Omega$		
AZTEC-G3-075	7.5kW	$\geq 8.0\Omega$		
AZTEC-G3-090	9.0kW	$\geq 8.0\Omega$		
AZTEC-G3-110	5.5kW x 2	$\geq 12\Omega \times 2$	External optional	
AZTEC-G3-132	6.5kW x 2	$\geq 8\Omega \times 2$		
AZTEC-G3-160	16kW	$\geq 2.5\Omega$		
AZTEC-G3-200	20kW	$\geq 2.5\Omega$		
AZTEC-G3-220	22kW	$\geq 2.5\Omega$		
AZTEC-G3-250	12.5kW x 2	$\geq 2.5\Omega \times 2$		
AZTEC-G3-280	14kW x 2	$\geq 2.5\Omega \times 2$		
AZTEC-G3-315	16kW x 2	$\geq 2.5\Omega \times 2$		
AZTEC-G3-355	17kW x 2	$\geq 2.5\Omega \times 2$		
AZTEC-G3-400	20kW x 2	$\geq 2.5\Omega \times 2$		

Note: "x2" represents two brake units with their own braking resistor in parallel connection.