



# B-TECH

## Big Wave Technologies Drives & Softstarters

## Product Catalogue


# Introduction

## B-tech Drives And Softstarters

### Empower your productivity with profitable efficiency and performance

Today's business is normally based on efficiency and performance. You know that everything counts to make you more competitive. Our drives and softsarters are made with all this in mind, empowering productivity and efficiency. They provide flexibility to help you optimize your processes and control, and reliable for less downtime. You also get premium service and expertise, to support their full life cycle.

The drives also provides the gateway to the world of open and non-proprietary fully integrated systems thereby enabling your business to spread the risk associated with tying your business to proprietary systems .

Welcome to visit B-tech Drives and Softstarters!
As a professional manufacturer of industrial automation products, we are always dedicated to soft starter, frequency inverters, servo motor and drive, BT filters, harmonic wave AC chokes, sine wave filters and brake units and resistors.

We have following mature series product:
BT-GJ3 series soft starter, (220V/380/480V ±15%; 5.5KW~ 630KW).
BT8 series VF control inverter, (220V/380V/480V ±15%; 0.75KW~630KW).
BT9 series sensorless vector control inverter, (220V/380V/480V/575V/690V ±15%; 0.75KW~630KW).
BT series vector control inverter with PG (including elevator and lift drive). (220V/380V/480V/690V ±15%; 0.75KW~630KW)
B-Tech 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.

# *Product Series*

## Soft Starter

**Type:**
G: General use
**Power:**
5.5KW ~ 600KW
**Voltage:**
2: Three phase 200V~240V
3: Three phase 380V~460V
4: Three phase 440V~480V

## BT8 Series V/f Control Frequency Inverter

**Type:**
G: General use
P: Pump & Fan
H: Heavy load
**Power:**
0.75KW ~ 630KW
**Voltage:**
1: Single phase 200V ~ 240V
3: Three phase 320V ~ 460V
4: Three phase 440V ~ 480V

## BT9 Series Vector Control Frequency Inverter

**Type:**
B: Ball mill machine
C: CNC machine
E: Energy saving control cabinet
H: Heavy load
G: General use
Z: Injection machine
P: Pump & Fan
**Power:**
0.75KW ~ 630KW
**Voltage:**
1: Single phase 200V~240V
2: Three phase 200V~240V
3: Three phase 320V ~ 460V
4: Three phase 440V ~ 480V
5: Three phase 550V ~ 575V
6: Three phase 660V~690V

## Servo Motor and Drive

**Servo drive:**
BT~BTD
**Servo motor:**
a) 60,80 Series
b) 110,130 Series
c) 180 Series
d) 220 Series
**Power:**
0.2KW ~ 22KW
Voltage:
a) Single/Three phase 220V/380V

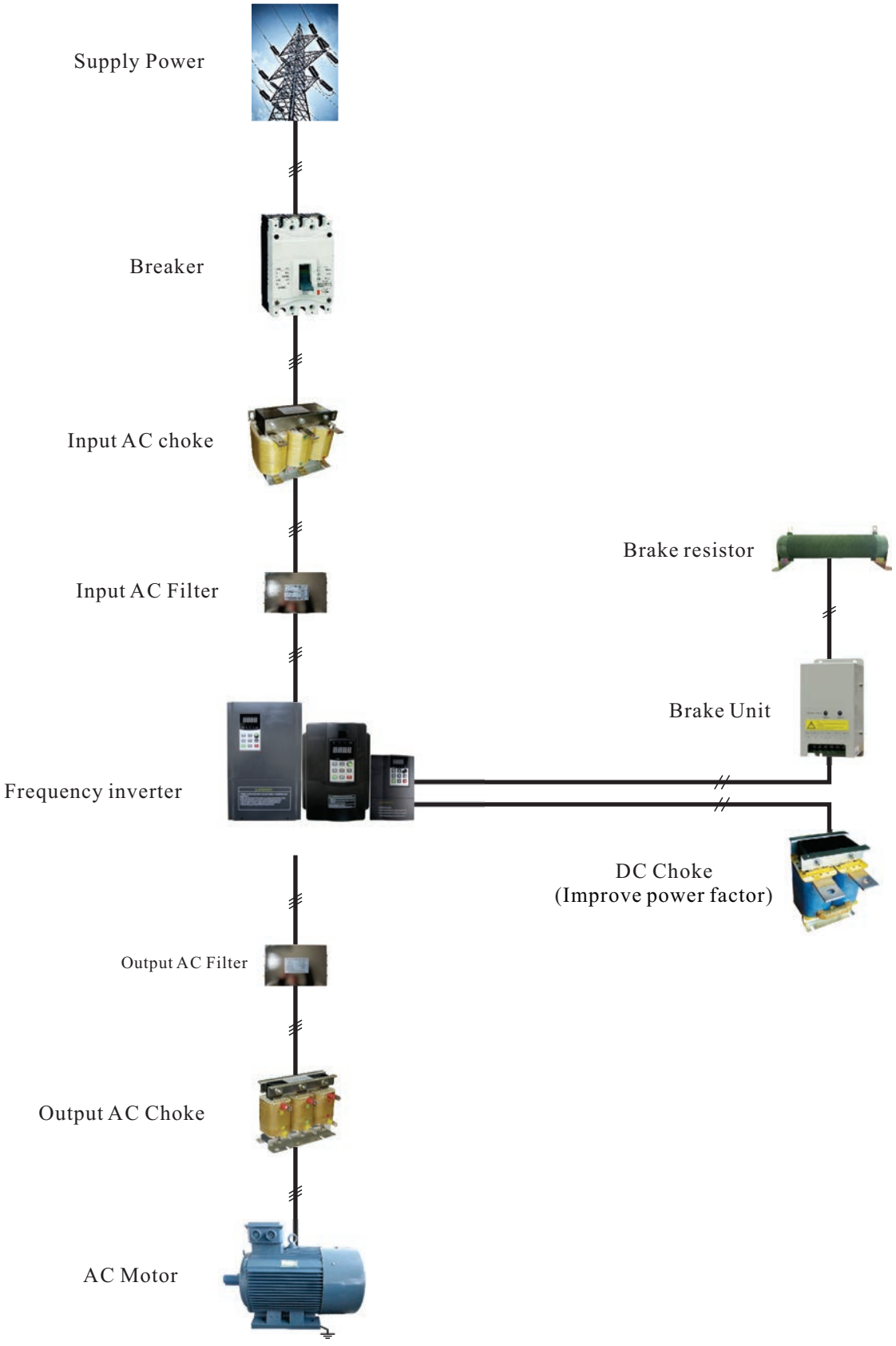
## AC Filter and Choke

**Input & output filter and AC choke**
Power: 0.75~630KW
Voltage: Three phase 220V~690V
**Sine wave filter**
Power: 0.75~630KW
Voltage: Three phase 220V~690V
**DC Choke**
Power: 0.4~560KW
Voltage: DC 500~700V

## Brake Unit and Resistor

**Brake Unit**
Match inverter: 0.75KW~630KW
**Brake resistor & Aluminum resistor**
Power rating: 15W~20KW
Resistance value: 0.01Ohm~100KOhm
Match inverter: 0. 75KW~630KW

## Solutions


Supply Power
Breaker
Input AC choke
Input AC Filter
Frequency inverter
Output AC Filter
Output AC Choke
AC Motor
Brake resistor
Brake Unit
DC Choke
(Improve power factor)

# *Soft Starter*

## Product Introduction:

BT series Soft Starter is a new type start-up equipment which integrates electric force and electronic techniques , computer technique and modern control theory. It is the new generation product to replace the conventional Star-delta Starter, Self-coupling voltage-drop Starter and Magnetic control voltage-drop Starter.

## Advantage Feature:

- Advanced soft starter type: "voltage control type" and "current limiting type".
- Capacity to motor effectively, so it could save the cost.
- Intelligent, digital and single chip control.
- Man-machine conversation function.
- Delay starting function. Operation current displayed.
- Failure self-diagnosis.
- Natural wind cooling. Space saving.
- Can reduce the starting stress of motor and other loading equipment, so that lengthen their service life.
- The function of soft stopping can solve effectively the surging problem of inertia system when stopping.
- The perfect and reliable protection features, can give the effective protection to the operator's safety as well as the motor and matched equipments. Such over voltage; over current, over load, over heat, short circuit, lower voltage, input or output phase failure; three phase imbalance, starting time over long protection etc.
- The application of intelligent and network technique make the BT-GJ3 type soft starter meet the high -tech development of Electrical force automated technique effectively.
- The reliable function and quality is the basic of the best service. even more, we can supply the special designing and functions of product matched to your need ,and ,the timely and perfect application consulting service.

## Model Introduction:

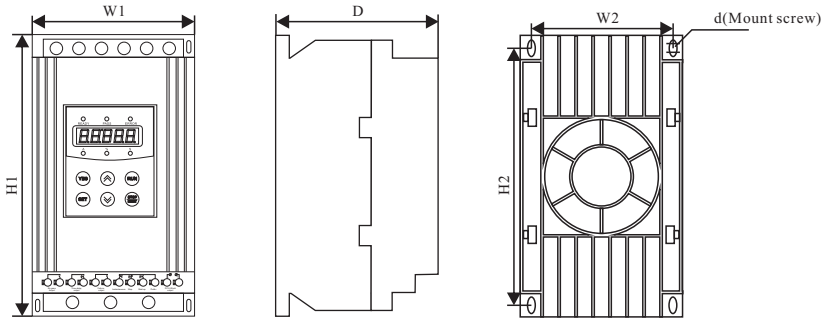
**Type:**
GJ: General use
GJ3C: Soft starter cabinet

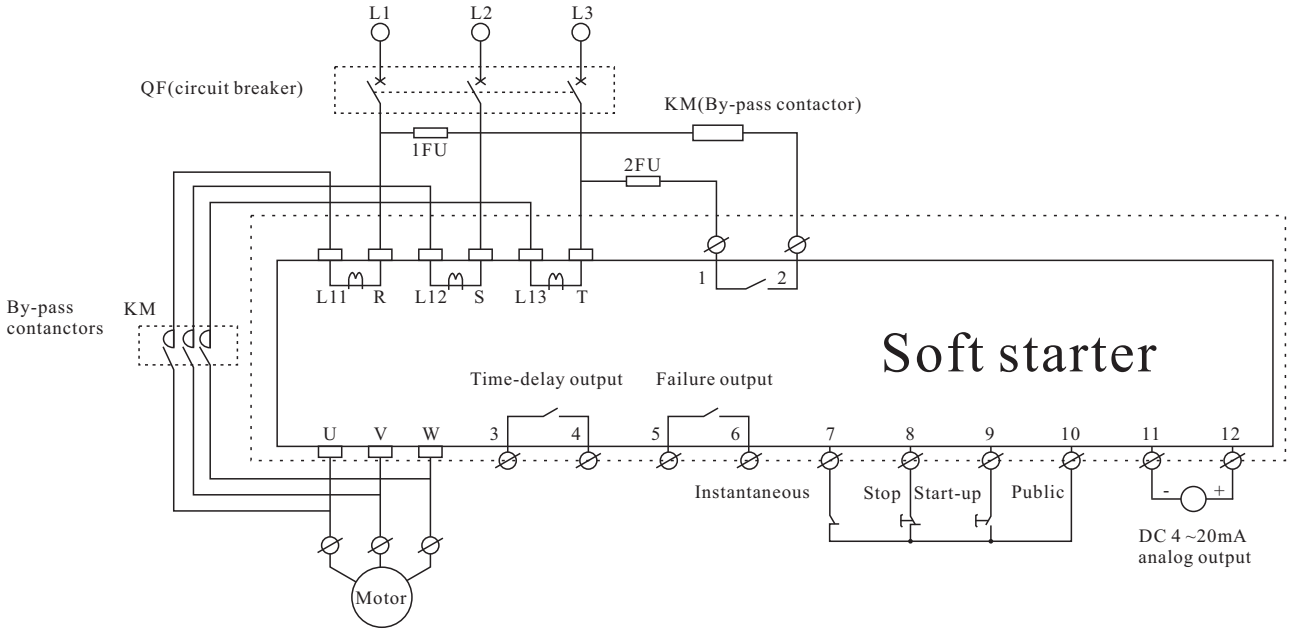
**Voltage:**
2: 3phase to 3phase 200V~240V
3: 3phase to 3phase 320V~460V
4: 3phase to 3phase 440V~480V

**BT GJ2 Series(Three phase to three phase 200V~240V)**
**BT GJ3 Series(Three phase to three phase 320V~460V)**
**BT GJ4 Series(Three phase to three phase 440V~480V)**

| Model | | | Voltage (V) | | | Power (KW) | | | Current (A) | External shape | | | Installation dimensions (mm) | | | Soft starter Cabinet Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GJ2 | GJ3 | GJ4 | GJ2 | GJ3 | GJ4 | GJ2 | GJ3 | GJ4 | | W1 | H1 | D | W2 | H2 | d | |
| — | BT-GJ3-5d5 | BT-GJ4-5d5 | | | | — | 5.5 | 5.5 | 11 | | | | | | | BT-GJ3C-5d5 |
| — | BT-GJ3-7d5 | BT-GJ4-7d5 | | | | — | 7.5 | 7.5 | 15 | | | | | | | BT-GJ3C-7d5 |
| BT-GJ2-5d5 | BT-GJ3-011 | BT-GJ4-011 | | | | 5.5 | 11 | 11 | 23 | | | | | | | BT-GJ3C-011 |
| BT-GJ2-7d5 | BT-GJ3-015 | BT-GJ4-015 | | | | 7.5 | 15 | 15 | 30 | | | | | | | BT-GJ3C-015 |
| — | BT-GJ3-018 | BT-GJ4-018 | | | | — | 18.5 | 18.5 | 37 | | | | | | | BT-GJ3C-018 |
| BT-GJ2-011 | BT-GJ3-022 | BT-GJ4-022 | | | | 11 | 22 | 22 | 43 | 146 | 270 | 160 | 131 | 247 | M6 | BT-GJ3C-022 |
| BT-GJ2-015 | BT-GJ3-030 | BT-GJ4-030 | | | | 15 | 30 | 30 | 60 | | | | | | | BT-GJ3C-030 |
| BT-GJ2-018 | BT-GJ3-037 | BT-GJ4-037 | | | | 18 | 37 | 37 | 75 | | | | | | | BT-GJ3C-037 |
| BT-GJ2-022 | BT-GJ3-045 | BT-GJ4-045 | | | | 22 | 45 | 45 | 90 | | | | | | | BT-GJ3C-045 |
| BT-GJ2-030 | BT-GJ3-055 | BT-GJ4-055 | | | | 30 | 55 | 55 | 110 | | | | | | | BT-GJ3C-055 |
| BT-GJ2-037 | BT-GJ3-075 | BT-GJ4-075 | | | | 37 | 75 | 75 | 150 | | | | | | | BT-GJ3C-075 |
| BT-GJ2-045 | BT-GJ3-090 | BT-GJ4-090 | | | | 45 | 90 | 90 | 180 | | | | | | | BT-GJ3C-093 |
| BT-GJ2-055 | BT-GJ3-115 | BT-GJ4-115 | 220 | 380 | 480 | 55 | 115 | 115 | 230 | | | | | | | BT-GJ3C-110 |
| — | BT-GJ3-132 | BT-GJ4-132 | | | | — | 132 | 132 | 264 | 257 | 525 | 194 | 195 | 377 | | BT-GJ3C-132 |
| BT-GJ2-075 | BT-GJ3-160 | BT-GJ4-160 | | | | 75 | 160 | 160 | 320 | | | | | | | BT-GJ3C-160 |
| BT-GJ2-090 | BT-GJ3-185 | BT-GJ4-185 | | | | 90 | 185 | 185 | 370 | | | | | | | BT-GJ3C-185 |
| BT-GJ2-100 | BT-GJ3-200 | BT-GJ4-200 | | | | 100 | 200 | 200 | 400 | | | | | | | BT-GJ3C-200 |
| BT-GJ2-115 | BT-GJ3-250 | BT-GJ4-250 | | | | 115 | 250 | 250 | 500 | | | | | | M8 | BT-GJ3C-250 |
| BT-GJ2-132 | BT-GJ3-280 | BT-GJ4-280 | | | | 132 | 280 | 280 | 560 | 290 | 560 | | 260 | 465 | | BT-GJ3C-280 |
| BT-GJ2-160 | BT-GJ3-320 | BT-GJ4-320 | | | | 160 | 320 | 320 | 640 | | | 245 | | | | BT-GJ3C-320 |
| BT-GJ2-185 | BT-GJ3-355 | BT-GJ4-355 | | | | 185 | 355 | 355 | 710 | | | | | | | BT-GJ3C-355 |
| BT-GJ2-200 | BT-GJ3-400 | BT-GJ4-400 | | | | 200 | 400 | 400 | 800 | 330 | 590 | | 300 | 490 | | BT-GJ3C-400 |
| BT-GJ2-220 | BT-GJ3-450 | BT-GJ4-450 | | | | 220 | 450 | 450 | 900 | | | | | | | BT-GJ3C-450 |
| BT-GJ2-250 | BT-GJ3-500 | BT-GJ4-500 | | | | 250 | 500 | 500 | 1000 | 450 | 740 | 300 | 400 | 575 | M10 | BT-GJ3C-500 |
| BT-GJ2-315 | BT-GJ3-600 | BT-GJ4-600 | | | | 315 | 600 | 600 | 1200 | | | | | | | BT-GJ3C-600 |

# *Soft Starter*



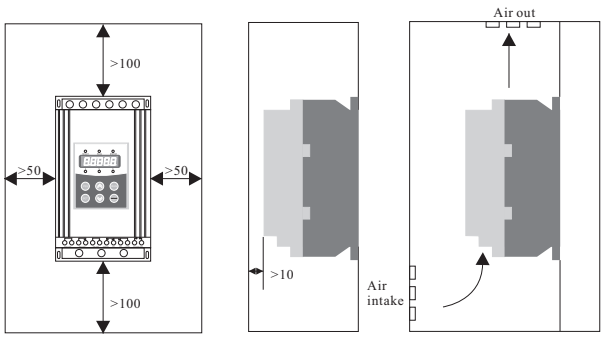

Squirrel-cage 3-phase asynchronous motor

Main circuit connection diagram

## ⋙ Keypad Size:


Suitable for : BT-GJ3-5d5 ~BT-GJ3-600

## ⋙ Installation Direction and Space:



# BT8 Series V/f Inverter

## Product Introduction:

Bt8 series V/F control frequency inverter is a new high performance of products. This inverter can realize high torque, high precision, wide variable speed and low noise drive. And have wide application, EM8 series frequency inverter can meet most customer's requirements.

## Advantage Feature:

- Input voltage range: 220V/380V/480V ±15%.
- Input frequency range: 45Hz ~ 65Hz.
- Output voltage range: 0 ~ rated input voltage.
- Output frequency range: 0 ~ 500Hz.
- Overload capacity: 60s with 150% of rated current, 2s with 180% of rated current.
- 0.75 ~ 7.5KW plastic house; 11 ~ 630KW is metal house.
- Control mode: High quality VF control.
- Speed accuracy: V/F ± 0.5% of maximum speed.
- 20 channels for frequency setting.
- Analog signal : 0 ~ 10V;-10V ~ 10V; 0 ~ 20mA.
- Pulse setting input: 0 ~ 50 KHz.
- Built-in RS485 communication port.
- In all model inverters integrated IGBT are used.
- The malfunction ratio is 0.8% within 18 months warranty.

## Model Introduction:

**Type:**
G: General use
P: Pump & Fan
H: Heavy load

**Voltage:**
1: 1phase to 3phase 200V~240V
3: 3phase to 3phase 320V~460V
4: 3phase to 3phase 440V~480V

**BT8 G1 Series(single Phase To Three Phase 200v~240v)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT8-G1-d75 | 220 | 0.75 | 5 |
| BT8-G1-1d5 | 220 | 1.5 | 7.5 |
| BT8-G1-2d2 | 220 | 2.2 | 10 |
| BT8-G1-004 | 220 | 4 | 17 |
| BT8-G1-5d5 | 220 | 5.5 | 25 |
| BT8-G1-7d5 | 220 | 7.5 | 32 |
| BT8-G1-011 | 220 | 11 | 45 |
| BT8-G1-015 | 220 | 15 | 60 |

**BT8 H3 Series(three Phase To Three Phase 320v~460v)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT8-H3-1d5 | 380 | 1.5 | 3.7 |
| BT8-H3-2d2 | 380 | 2.2 | 5 |
| BT8-H3-004 | 380 | 4 | 8.5 |
| BT8-H3-5d5 | 380 | 5.5 | 11 |
| BT8-H3-7d5 | 380 | 7.5 | 17 |
| BT8-H3-011 | 380 | 11 | 25 |
| BT8-H3-015 | 380 | 15 | 32 |
| BT8-H3-018 | 380 | 18.5 | 37 |
| BT8-H3-022 | 380 | 22 | 45 |
| BT8-H3-030 | 380 | 30 | 60 |
| BT8-H3-037 | 380 | 37 | 75 |
| BT8-H3-045 | 380 | 45 | 90 |
| BT8-H3-055 | 380 | 55 | 110 |
| BT8-H3-075 | 380 | 75 | 150 |
| BT8-H3-093 | 380 | 93 | 176 |
| BT8-H3-110 | 380 | 110 | 210 |

**BT8 G3/p3 Series(three Phase To Three Phase 320v~460v)**

| Model | | Voltage | Power | Current |
|---|---|---|---|---|
| G series | P series | (V) | (KW) | (A) |
| BT8-G3-d75 | BT8-P3-1d5 | 380 | 0.75/1.5 | 2.5/4 |
| BT8-G3-1d5 | BT8-P3-2d2 | 380 | 1.5/2.2 | 4/6 |
| BT8-G3-2d2 | BT8-P3-004 | 380 | 2.2/4 | 6/10 |
| BT8-G3-004 | BT8-P3-5d5 | 380 | 4/5.5 | 10/13 |
| BT8-G3-5d5 | BT8-P3-7d5 | 380 | 5.5/7.5 | 13/17 |
| BT8-G3-7d5 | BT8-P3-011 | 380 | 7.5/11 | 17/25 |
| BT8-G3-011 | BT8-P3-015 | 380 | 11/15 | 25/32 |
| BT8-G3-015 | BT8-P3-018 | 380 | 15/18.5 | 32/37 |
| BT8-G3-018 | BT8-P3-022 | 380 | 18.5/22 | 37/45 |
| BT8-G3-022 | BT8-P3-030 | 380 | 22/30 | 45/60 |
| BT8-G3-030 | BT8-P3-037 | 380 | 30/37 | 60/75 |
| BT8-G3-037 | BT8-P3-045 | 380 | 37/45 | 75/90 |
| BT8-G3-045 | BT8-P3-055 | 380 | 45/55 | 90/110 |
| BT8-G3-055 | BT8-P3-075 | 380 | 55/75 | 110/150 |
| BT8-G3-075 | BT8-P3-090 | 380 | 75/90 | 150/176 |
| BT8-G3-090 | BT8-P3-110 | 380 | 90/110 | 176/210 |
| BT8-G3-110 | BT8-P3-132 | 380 | 110/132 | 210/250 |
| BT8-G3-132 | BT8-P3-160 | 380 | 132/160 | 250/300 |
| BT8-G3-160 | BT8-P3-185 | 380 | 160/185 | 300/340 |
| BT8-G3-185 | BT8-P3-200 | 380 | 185/200 | 340/380 |
| BT8-G3-200 | BT8-P3-220 | 380 | 200/220 | 380/420 |
| BT8-G3-220 | BT8-P3-250 | 380 | 220/250 | 420/470 |
| BT8-G3-250 | BT8-P3-280 | 380 | 250/280 | 470/520 |
| BT8-G3-280 | BT8-P3-315 | 380 | 280/315 | 520/600 |
| BT8-G3-315 | BTM8-P3-350 | 380 | 315/350 | 600/640 |
| BT8-G3-350 | BT8-P3-400 | 380 | 350/400 | 640/690 |
| BT8-G3-400 | BT8-P3-450 | 380 | 400/450 | 690/750 |
| BT8-G3-450 | BT8-P3-500 | 380 | 450/500 | 750/860 |
| BT8-G3-500 | BT8-P3-560 | 380 | 500/560 | 860/950 |
| BT8-G3-560 | BT8-P3-630 | 380 | 560/630 | 950/1100 |
| BT8-G3-630 | — | 380 | 630/--- | 1100/--- |

# *BT8 Series V/f Inverter*

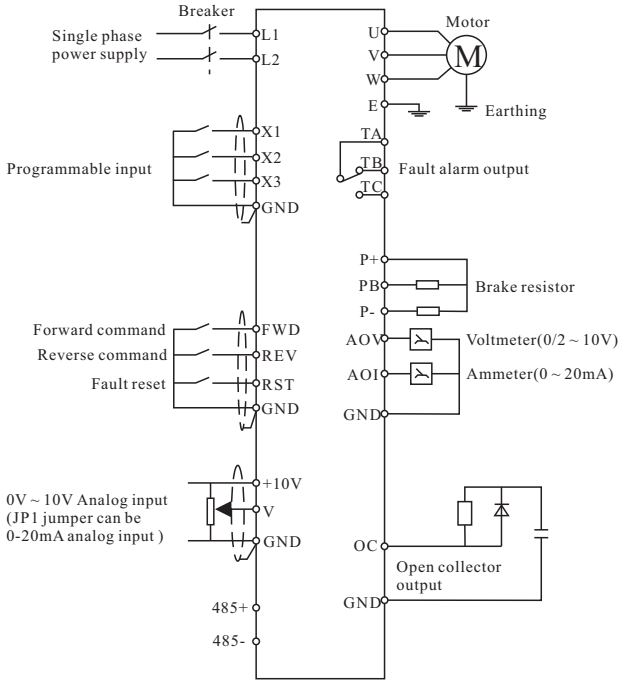
## ⋙ Technical Characteristics:

| Items | | | Specification |
|---|---|---|---|
| Input | Rated voltage and frequency | | Single phase 220V ± 15%; three phase 380V/440V ± 15% , 50/60Hz |
| | Voltage allowable deviation range | | 220V/380V/ 480V ± 15% |
| Output | Voltage | | 0 ~ 240V, 0~460V, 0~480V |
| | Frequency | | 0Hz ~ 500Hz |
| | Over-load capacity | | G3 Series: 150% rated current for 1min, 180% rated current for 2s.<br>P3 Series: 120% rated current for 1min, 150% rated current for 2s. |
| Control character | Control mode | | V/F Control |
| | Freq. Setting resolution | Analog terminal input | 0.1% of max output frequency |
| | | Digital setting | 0.01Hz |
| | | Panel analog setting | 0.4% of max frequency |
| | | External pulse | 0.1% of max frequency |
| | Freq. accuracy | Analog input | Within 0.2% of max. output frequency |
| | | Digital input | Within 0.01% of setting output frequency |
| | | External pulse | Within 0.1% of max. output frequency |
| | V/F Curve (Voltage-Frequency character) | | Basic frequency can be set from 5Hz ~ 500Hz arbitrarily, and there are three kinds of curve: constant torque ,Dec torque 1 and Dec torque 2. |
| | Torque Boost | | Manual Setting: 0 ~ 20% of rated output, Auto-boost: Automatically boost torque according to output current. |
| | Auto Energy-saving running | | Adjust output voltage and slip compensation properly according to output current, which will make the motor working in highest efficiency. |
| | Acc./Dec. time setting | | 0.1~ 6000 seconds can be set continuously, and S type and line type can be selected. |
| | Braking | Dynamic braking | Over 75% (External braking resistor). |
| | | DC braking | It is selected respectively at start and stop, and its frequency is 0~15Hz, the action voltage is 0 ~15%, and the action time is 0~20.0 second or act continuously. |
| | Auto current-limiting function | | Fast auto current-limiting function ensures not to occur the over-current during the accelerate process or under the impact load. |
| | Overvoltage prevention | | Ensure not over-voltage in Dec process. |
| | Low noise running | | Carrier freq. can be adjusted continuously form 1.5KHz to 15.0KHz, which can reduce the motor's noise furthest. |
| | Speed tracking restart | | It can realize the smoothness restart and instantaneous stop then restart function. |
| | Freq setting signal | Analog input | DC voltage 0~10V,-10V~10V, DC current 0~20mA ( Upper limit and Lower limit can be selected ). |
| | | Digital setting | By the keypad. |
| | | Pulse input | 0~50KHz (Upper limit and Lower limit can be selected) |
| | Startup signal | | FWD, REV, Startup signal can be selected and self-keep (Three line control). |
| | Timer and counter | | Built-in one timer and one counter ,which is convenient for system integration. |
| | Multi-speed control function/Wobble frequency | | Seven steps programmable multi-speed control at most, every step's running direction, running time can be set respectively. In external terminal control, It reaches 15 steps, and there are 6 kind of running modes. Include wobble frequency. |
| | Built-in PID control | Common PID | Expediently compose the simple control system without accessional PID controller. |
| | | Special for water suuply (Need accessories) | Be able to construct the constant-pressure water-supply system of 4 pumps switch at most, which includes the following functions: pressure upper or Lower limit alarm, Sleep or wake, Timing water-supply etc. multi kind running mode. |
| | Running function | | Setting the upper and lower limit of frequency, frequency jump-running, reversal running limit, slip frequency compensation, auto constant-voltage running, RS485 communication frequency increment and decrement control, fault self-restore running, multi inverter coupled running. |
| | Output signal | Running status | During the running of inverter, Frequency arrival, frequency level detection, over-load alarm, and external fault stop-machine. Frequency upper-limit arrival, Frequency lower-limit arrival, under-voltage stop, zero-speed running, programmable multi-speed running state, Internal counter arrival, Internal ti mer arrival, Pressure lower-upper limit alarm. |

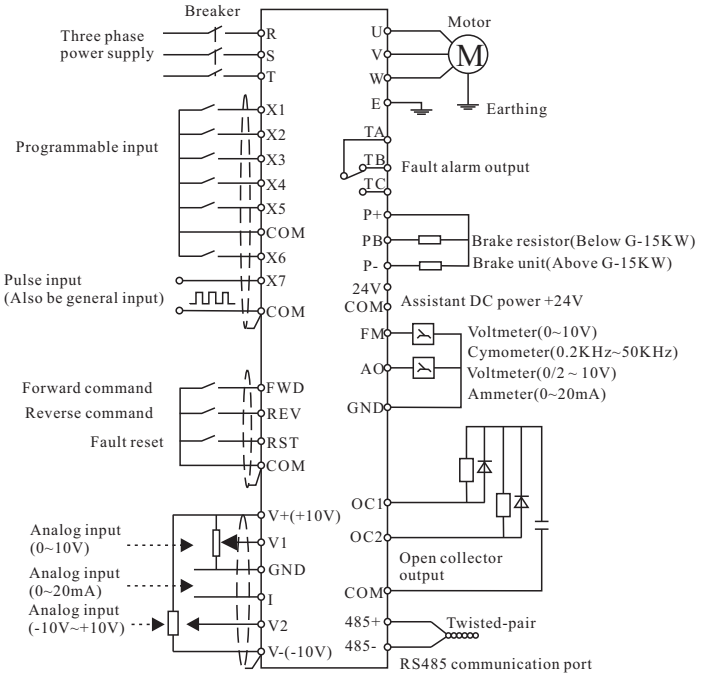
# *BT8 Series V/f Inverter*

## ⋙ Technical Characteristics:

| Items | | | Specification |
|---|---|---|---|
| Control character | Output signal | Indicating meter | Output Freq., output current, output voltage, motor speed, PID setting and feedback, external voltmeter, external cymometer. |
| Display | Keypad display | Running status | Output Freq., output current, output voltage, motor rotate speed, setting Freq., PID setting, PID feedback, IGBT temperature, accumulative running time, analog I/O, terminal Input status. |
| | | Alarm | Last six fault records, output frequency, setting frequency, output current, output voltage, DC voltage, IGBT temperature, terminal status, accumulative running time of last fault trip. |
| Protective / Alarm function | | | Over-current, over-voltage, lower voltage, electronic thermal protection, over-heat, short-circuit. |
| Operating Environment | Temperature | | -10ºC to +50ºC |
| | Humidity | | Below 90%RH(non-dewing) |
| | Ambient environment | | Indoors (no inflammable gasses or dust) |
| | Altitude | | Below 1000m |
| Operating Environment | Protective class | | IP20 |
| | Cooling method | | Fans cooling |
| Mounting model | | | Wall mounting |




BT8 Single Phase 200v ~ 240v Inverter Diagram



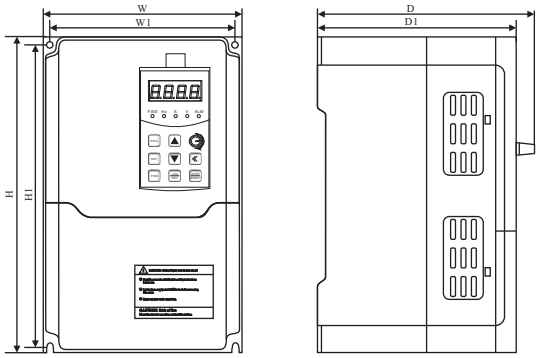

BT8 Three Phase 320v~460v Inverter Diagram

## ⋙ Keypad Size:


Suitable for:BT8-G1-d75 ~ BT8-G1-2d2
BT8-G3-d75 ~ BT8-G3-2d2


Suitable for: BT8-G3-004 ~ BT8-G3-630
BT8-P3-5d5 ~ BT8-P3-630

# BT8 Series V/f Inverter




## Installation Size Introduction:

| Model | | W1 (mm) | W (mm) | H1 (mm) | H (mm) | D1 (mm) | D (mm) | Screw Standard |
|---|---|---|---|---|---|---|---|---|
| G Series BT8-G1/G3 | P Series BT8-P3 | | | | | | | |
| BT8-G1-d75 | | 75 | 85 | 140 | 150 | 110 | 115 | M4 |
| BT8-G1-1d5 | | | | | | | | |
| BT8-G1-2d2 | | 110 | 120 | 160 | 170 | 120 | 135 | M4 |
| BT8-G3-d75 | BT8-P3-1d5 | | | | | | | |
| BT8-G3-1d5 | BT8-P3-2d2 | | | | | | | |
| BT8-G3-2d2 | BT8-P3-004 | 124 | 134 | 223 | 233 | 163 | 178 | M4 |
| BT8-G3-004 | BT8-P3-5d5 | | | | | | | |
| BT8-G3-5d5 | BT8-P3-7d5 | 194 | 204 | 286.5 | 300 | 175 | 190 | M4 |
| BT8-G3-7d5 | BT8-P3-011 | | | | | | | |
| BT8-G3-011 | BT8-P3-015 | 150 | 204 | 325 | 340 | 208.5 | 223.5 | M6 |
| BT8-G3-015 | BT8-P3-018 | 150 | 230 | 380 | 400 | 212 | 227 | M6 |
| BT8-G3-018 | BT8-P3-022 | | | | | | | |
| BT8-G3-022 | BT8-P3-030 | 200 | 260 | 440.5 | 460 | 233 | 248 | M6 |
| BT8-G3-030 | BT8-P3-037 | | | | | | | |
| BT8-G3-037 | BT8-P3-045 | 210 | 320 | 550 | 580 | 280 | 295 | M6 |
| BT8-G3-045 | BT8-P3-055 | | | | | | | |
| BT8-G3-055 | BT8-P3-075 | 300 | 380 | 568 | 590 | 297.5 | 312.5 | M8 |
| BT8-G3-075 | BT8-P3-093 | | | | | | | |
| BT8-G3-093 | BT8-P3-110 | 380 | 512 | 714 | 744 | 258 | 273 | M8 |
| BT8-G3-110 | BT8-P3-132 | | | | | | | |
| BT8-G3-132 | BT8-P3-160 | 400 | 583 | 760 | 793 | 300 | 315 | M8 |
| BT8-G3-160 | BT8-P3-185 | | | | | | | |
| BT8-G3-185 | BT8-P3-200 | | | | | | | |
| BT8-G3-200 | BT8-P3-220 | | | | | | | |

## Cabinet Inverter:

| Model | | W1 (mm) | H (mm) | D (mm) |
|---|---|---|---|---|
| G Series BT8-G1/G3 | P Series BT8-P3 | | | |
| BT8-G3-220 | BT8-P3-250 | 832 | 1500 | 445 |
| BT8-G3-250 | BT8-P3-280 | | | |
| BT8-G3-280 | BT8-P3-315 | | | |
| BT8-G3-315 | BT8-P3-350 | 850 | 1750 | 450 |
| BT8-G3-350 | BT8-P3-400 | | | |
| BT8-G3-400 | BT8-P3-500 | | | |
| BT8-G3-500 | BT8-P3-630 | | | |
| BT8-G3-630 | | | | |

# BT9 Series Vector Inverter

## Product introduction:

Bt9 series frequency inverter is a brand-new vector high-performance frequency inverter. By decoupling control of motor magnetic flux current and torque current to achieve rapid-response and accurate torque control, can run a wide range of high-precision speed and torque control operation which is suitable to industrial automation the in every field.

## Advantage Feature:

- Input voltage range:220V/380V/480V/575V/690V ±15%.
- Input frequency range:47~ 63Hz.
- Output voltage range:0 ~ rated input voltage.
- Output frequency range:0 ~ 600Hz.
- Overload capacity: 60s with 150%of rated current, 10s with 180% of rated current.
- Self study motor parameter function.
- Control mode: Sensorless Vector Control (SVC);Constant Torque; V/F Control.
- Speed accuracy: Sensorless Vector Control: ±0.5% of maximum speed (SVC).
- Starting torque: 150% of rated torque at 0.5Hz (SVC).
- Programmable timing running(Simple PLC).
- In all model inverters integrated IGBT are used.
- The malfunction ratio is 0.1% within 18 months warranty.

## Model Introduction:

| Type: | Voltage: |
|---|---|
| B: Ball Mill Machine Inverter | 1: 1phase to 3phase 200V~240V |
| C: CNC Machine Inverter | 2: 3phase to 3phase 200V~240V |
| E: Energy-saving Drive | 3: 3phase to 3phase 320V~460V |
| G: General use | 4: 3phase to 3phase 440V~480V |
| P: Pump & Fan | 5: 3phase to 3phase 550V~575V |
| H: Heavy load | 6: 3phase to 3phase 660V~690V |
| Z: Injection machine | |

**BT G1 Series(Single phase to three phase 200V~240V)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT9-G1-0d4 | 220 | 0.4 | 2.5 |
| BT9-G1-d75 | 220 | 0.75 | 4 |
| BT9-G1-1d5 | 220 | 1.5 | 7 |
| BT9-G1-2d2 | 220 | 2.2 | 10 |
| BT9-G1-004 | 220 | 4 | 16 |
| BT9-G1-5d5 | 220 | 5.5 | 23 |
| BT9-G1-7d5 | 220 | 7.5 | 30 |
| BT9-G1-011 | 220 | 11 | 45 |

**BT9 G2 Series(three Phase To Three Phase 200v~240v)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT9-G2-d75 | 220 | 0.75 | 6 |
| BT9-G2-1d5 | 220 | 1.5 | 9 |
| BT9-G2-2d2 | 220 | 2.2 | 13 |
| BT9-G2-004 | 220 | 4 | 17 |
| BT9-G2-5d5 | 220 | 5.5 | 25 |
| BT9-G2-7d5 | 220 | 7.5 | 32 |
| BT9-G2-011 | 220 | 11 | 37 |
| BT9-G2-015 | 220 | 15 | 45 |
| BT9-G2-018 | 220 | 18.5 | 60 |
| BT9-G2-022 | 220 | 22 | 75 |
| BT9-G2-030 | 220 | 30 | 90 |
| BT9-G2-037 | 220 | 37 | 110 |
| BT9-G2-045 | 220 | 45 | 150 |
| BT9-G2-055 | 220 | 55 | 176 |
| BT9-G2-075 | 220 | 75 | 210 |
| BT9-G2-093 | 220 | 93 | 250 |
| BT9-G2-110 | 220 | 110 | 300 |

**BT9 G3/p3 Series(three Phase To Three Phase 320v~460v)**

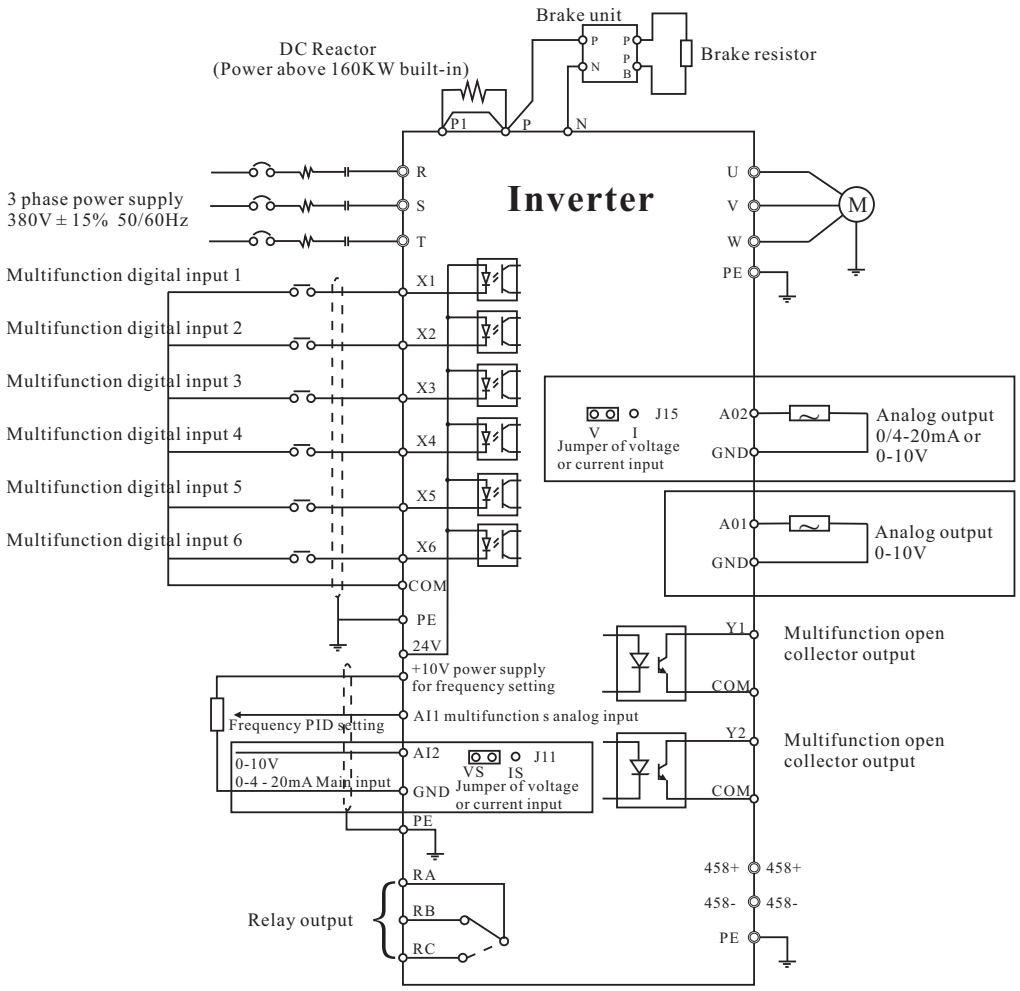
| Model | | Voltage | Power | Current |
|---|---|---|---|---|
| Input | Output | (V) | (KW) | (A) |
| BT9-G3-d75 | BT9-P3-1d5 | 380 | 0.75/1.5 | 2.5/4 |
| BT9-G3-1d5 | BT9-P3-2d2 | 380 | 1.5/2.2 | 4/6 |
| BT9-G3-2d2 | BT9-P3-004 | 380 | 2.2/4 | 6/10 |
| BT9-G3-004 | BT9-P3-5d5 | 380 | 4/5.5 | 10/13 |
| BT9-G3-5d5 | BT9-P3-7d5 | 380 | 5.5/7.5 | 13/17 |
| BT9-G3-7d5 | BT9-P3-011 | 380 | 7.5/11 | 17/25 |
| BT9-G3-011 | BT9-P3-015 | 380 | 11/15 | 25/32 |
| BT9-G3-015 | BT9-P3-018 | 380 | 15/18.5 | 32/37 |
| BT9-G3-018 | BT9-P3-022 | 380 | 18.5/22 | 37/45 |
| BT9-G3-022 | BT9-P3-030 | 380 | 22/30 | 45/60 |
| BT9-G3-030 | BT9-P3-037 | 380 | 30/37 | 60/75 |
| BT9-G3-037 | BT9-P3-045 | 380 | 37/45 | 75/90 |
| BT9-G3-045 | BT9-P3-055 | 380 | 45/55 | 90/110 |
| BT9-G3-055 | BT9-P3-075 | 380 | 55/75 | 110/150 |
| BT9-G3-075 | BT9-P3-090 | 380 | 75/90 | 150/176 |
| BT9-G3-090 | BT9-P3-110 | 380 | 90/110 | 176/210 |
| BT9-G3-110 | BT9-P3-132 | 380 | 110/132 | 210/250 |
| BT9-G3-132 | BT9-P3-160 | 380 | 132/160 | 250/300 |
| BT9-G3-160 | BT9-P3-185 | 380 | 160/185 | 300/340 |
| BT9-G3-185 | BT9-P3-200 | 380 | 185/200 | 340/380 |
| BT9-G3-200 | BT9-P3-220 | 380 | 200/220 | 380/420 |
| BT9-G3-220 | BT9-P3-250 | 380 | 220/250 | 420/470 |
| BT9-G3-250 | BT9-P3-280 | 380 | 250/280 | 470/520 |
| BT9-G3-280 | BT9-P3-315 | 380 | 280/315 | 520/600 |
| BT9-G3-315 | BT9-P3-350 | 380 | 315/350 | 600/640 |
| BT9-G3-350 | BT9-P3-400 | 380 | 350/400 | 640/690 |
| BT9-G3-400 | BT9-P3-450 | 380 | 400/450 | 690/750 |
| BT9-G3-450 | BT9-P3-500 | 380 | 450/500 | 750/860 |
| BT9-G3-500 | BT9-P3-560 | 380 | 500/560 | 860/950 |
| BT9-G3-560 | BT9-P3-630 | 380 | 560/630 | 950/1100 |
| BT9-G3-630 | — | 380 | 630/--- | 1100/--- |

# *Bt9 Series Vector Inverter*

## ⋙ Technical Characteristics:

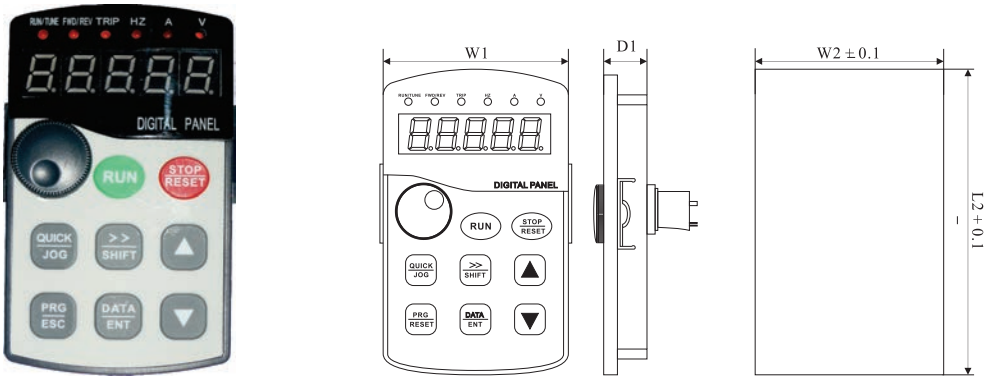
| Project | Specification | |
|---|---|---|
| Input | Rated input voltage | Single phase 220V, three phase 220V380V/440V/690V ±15%, 47~ 63 Hz |
| Output | Maximum output voltage | Maximum output voltage is same with input power |
| | Output feature | 100% continuous output |
| Basic control function | Over-load capacity | 150% rated current 1 minute, 180% rated current 10 seconds |
| | Control mode | Sensorless vector control, V/f control, Torque control optimization vector PWM |
| | Input mode | Frequency (speed) input. Moment input. Location input |
| | Operation mode | Keypad. External terminal (2 line control. Three line control). RS485 |
| | Frequency setting mode | Digital input. Analog input. Multiple speed. PID set. Serial communication RS485 setting, etc |
| | Frequency control range | 0.00-600.00 Hz |
| | The resolution of the input frequency | Digital: 0.01 Hz simulation: 0.05 Hz |
| | Acc/ Dec time | 0-3600 seconds |
| | Carrier frequency | 0.5 K - 15.0 KHz |
| | Voltage/frequency characteristic | Rated voltage 20% - 100% adjustable; The fundamental frequency of the 20 Hz ~ 600 Hz adjustable |
| | Torque boost | Automatic torque boost. Fixed torque boost curve, arbitrary V/f curve optional |
| | Start torque | 0.5 Hz / 150% rated torque |
| | Speed control ratio | 1: 100(no sensor vector) |
| | Moment control accuracy | Plus or minus 0.5% maximum speed |
| | Output voltage adjustment | AVR function effectively, keep output voltage stable |
| | Current automatic limiter | Automatic limit output current, avoid frequent over current trip |
| | DC brake | Brake frequency: 0.1 ~ maximum frequency braking time 0 ~ 50 seconds brake current: 0 ~ 150% rated |
| Peripheral port function | Programmable digital input | 6 channels programmable terminal input |
| | Programmable analog input | AI1:0 ~ 10 V input, AI2:0 ~ 10 V or 0 to 20 mA input |
| | Open collector output | 1 channel output |
| | Relay output | 1 channel output |
| | Analog output | Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V |
| Keyboard display | LED display | LED digital tube display frequency converter of relevant information |
| | LCD display | LCD liquid crystal display converter code information |
| | Parameter copy | Can upload and download converter code information, realizing fast parameter copy |
| Protection | Protection function | Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheating, external fault, communication malfunction,PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection. |
| Use condition | Installation site | Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight |
| | Applicable ambient | -10 °C ~ +40°C, 20% ~ 90% RH (no frost) |
| | Vibrate | Less than 0.5 g |
| | Storage ways | -25 °C ~ +65°C |
| | Installation ways | Wall (0.75 KW ~ 132 KW), floor type electric control cabinet (160 ~ 400 KW) |
| Protection level | | IP20 |
| Type of cooling | | Forced air cooling (controlled) |

# *BT9 Series Vector Inverter*




Wiring Connection Diagram

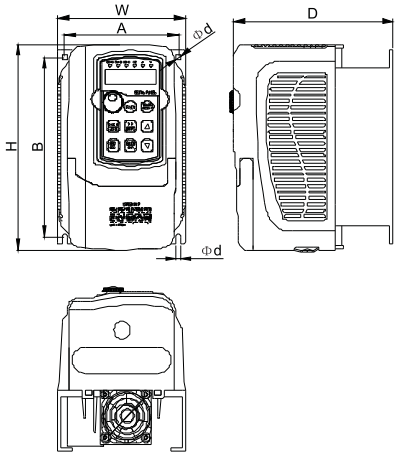
## ⋙ Keypad Size:



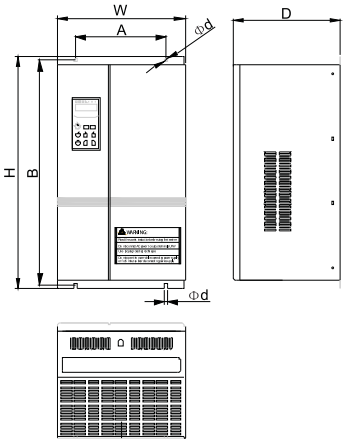

| Model \ Size | L1(mm) | W1(mm) | D1(mm) | L2(mm) | W2(mm) |
|---|---|---|---|---|---|
| Keyboard(Above 15KW) | 135.2 | 74.5 | 21.3 | 130.8 | 70.8 |
| Keypad(Under 11KW) | 97.5 | 58 | 17 | 90 | 56.4 |

# BT9 Series Vector Inverter

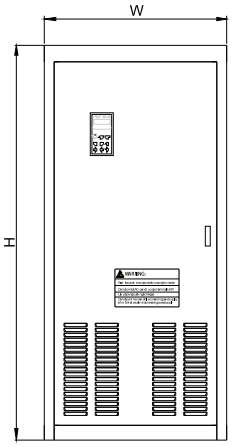
## Installation Size Introduction:




0.75-11KW The dimension of the machine



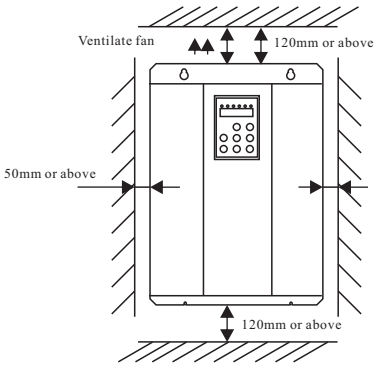

15-132KW The dimension of the machine



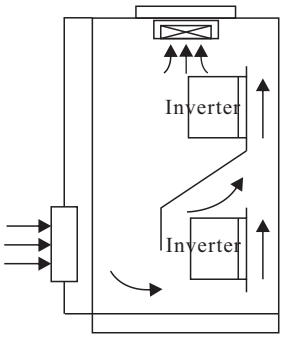

160-630KW The dimension of the machine

| Rated Output Power (KW) | Input Voltage | A (mm) | B (mm) | H (mm) | W (mm) | D (mm) | Installation Hole (mm) |
|---|---|---|---|---|---|---|---|
| 0.4 ~ 1.5 | 1AC 220V -15% ~ +15% | 79 | 132 | 140 | 85 | 125 | 4 |
| 2.2 | | 111.5 | 156.5 | 170 | 125 | 162 | 5 |
| 0.75 ~ 2.2 | 3AC 380V -15% ~ +15% | 111.5 | 156.5 | 170 | 125 | 162 | 5 |
| 4 ~ 5. 5 | | 136.5 | 205 | 220 | 150 | 175 | 5 |
| 7.5 | | 202.5 | 287.5 | 300 | 216 | 212 | 6 |
| 11 ~ 18.5 | | 170 | 350 | 370 | 274 | 226 | 9 |
| 22 ~ 30 | | 200 | 444 | 465 | 300 | 235 | 9 |
| 37 ~ 55 | | 250 | 590 | 610 | 360 | 299 | 9 |
| 75 ~ 93 | | 300 | 659 | 584 | 424 | 324 | 11 |
| 110 ~ 132 | | 320/ | 858 | 883.5 | 504 | 338 | 11 |
| 160 ~ 200 | | / | / | 1400 | 574 | 430 | / |
| 220 ~ 250 | | / | / | 1600 | 760 | 480 | / |
| 280 ~ 315 | | / | / | 1700 | 850 | 482 | / |
| 350 ~ 450 | | / | / | 1700 | 850 | 523 | / |
| 500 ~ 630 | | / | / | 2200 | 1200 | 550 | / |

## Installation Direction and Space:




Safe space and distance




Installation of multiple inverter

# *Servo Motor And Drive*

## Product Introduction:

The all digital AC servo driver adopt DSP+FPGA architecture to obtain fast data collection and processing, as well as high integration density and reliability. By using optimized PID control algorithm, accurate fully digital control of torque, speed and position have been achieved. With sufficient digital & analog interfaces, and output of position feedback pulse division and the zero pulse widening, variety of control device can be supported.

## Specification Description

BTA — 05 A W

BTA Servo Driver | Rated Output Power | Power Voltage | Encoder Type

| Sign | Specification |
|---|---|
| 05 | 500W |
| 08 | 800W |
| 10 | 1.0KW |

| Sign | Specification |
|---|---|
| A | 220V |

| Sign | Specification |
|---|---|
| I | Incremental Encoder |
| W | Wire-saving Encoder |

BTB — 15 A I

BTB Servo Driver | Rated Output Power | Power Voltage | Encoder Type

| Sign | Specification |
|---|---|
| 15 | 1.5KW |
| 25 | 2.5KW |
| 30 | 3.0KW |

| Sign | Specification |
|---|---|
| A | 220V |

| Sign | Specification |
|---|---|
| I | Incremental Encoder |
| A | Absolute Encoder |

BTC — 60 A I

BTC Servo Driver | Rated Output Power | Power Voltage | Encoder Type

| Sign | Specification |
|---|---|
| 60 | 5.0W |

| Sign | Specification |
|---|---|
| A | 220V |
| B | 380V |

| Sign | Specification |
|---|---|
| I | Incremental Encoder |

BTD — 1A B R

BTD Servo Driver | Rated Output Power | Power Voltage | Encoder Type

| Sign | Specification |
|---|---|
| 1A | 11W |
| 1E | 15KW |
| 1H | 18KW |
| 2B | 22KW |

| Sign | Specification |
|---|---|
| B | 380V |

| Sign | Specification |
|---|---|
| R | Resolver |

## Technical specification of servo drive

| Model | | EMA | EMB |
|---|---|---|---|
| Power | | 1PH or 3PH AC 220V±15%, 50/60Hz | |
| Environment | Temperature | Operating temperature: 0~45°C; Storage temperature:-40~ 50°C | |
| | Humidity | <90°C(Non-condensing) | |
| | Vibration | <0.5G(4.9m/s²) 10~60Hz(Non-continuous operation) | |
| Control mode | | (1) Position control mode<br>(2) Speed control mode(External analog signal / internal parameters)<br>(3) Speed control trial run<br>(4) JOG trial run<br>(5) Torque control<br>(6) Closed=loop control pressure mode | |
| Regenerative brake | | Internal | Internal or External |
| Feedback mode | | Incremental encoder; Wire-saving encoder | Incremental encoder; Absolute encoder |
| Feature | Speed frequency response | ⩾400Hz | |
| | Speed fluctuation | Below 0.03%(Load fluctuation 0 to 100%, at rated speed) | |
| | Speed control ratio | 1:5000 | |
| | Input pulse frequency | 0~500KHz | |
| Control input | | Five programmable input | Seven programmable input |
| | | (1) Servo enable<br>(2) Alarm clearing<br>(3) CCW drive forbidden<br>(4) CW drive forbidden<br>(5) Deviation counter clearing<br>(6) Pulse command disable<br>(7) Zero-speed position selection 1<br>(8) CCW torque limited<br>(9) CW torque limited<br>(10) Torque mode switch<br>(11) Internal position selection 1<br>(12) Internal position selection 2<br>(13) Internal position selection 3<br>(14) Internal speed selection 1<br>(15) Internal speed selection 2<br>(16) Internal speed selection 3<br>(17) Internal torque selection 1<br>(18) Internal torque selection 2<br>(19) Electronic gear ratio selection 1<br>(20) Electronic gear ratio selection 2<br>(21) Running direction selection 1<br>(22) Running direction selection 2<br>(23) Running direction reverse<br>(24) Emergency stop<br>(25) Launch the origin back<br>(26) Origin back reference point<br>(27) Internal position running startup signal | |
| Control output | | Three programmable output | Four programmable output |
| | | (1) Servo ready<br>(2) Servo alarm<br>(3) Position completed<br>(4) Electromagnetism brake<br>(5) Speed reached<br>(6) Origin regression completed | |
| Position control mode | Input pulse type | (1) Pulse+direction; (2) CCW pulse/CW pulse; (3) Two-phase A/B quadrature pulse | |
| | Electronic gear | Setting range: 1~65535/1~65535 | |
| | Feedback pulse | Adjusta according to the encoder | |
| Speed control mode | | (1) 8 internal speed settings<br>(2) External analog signal(DC -10 ~ +10V) | |
| Torque control mode | | (1) 4 internal torque setting<br>(2) External analog signal(DC -10~ +10V) | |
| Acc/Dec function | | Adjustable by parameters: 1~1000r/min or 1000~0r/min | |
| Torque limited Function | | Torque limited range: -300 ~ +300% | |
| Monitoring | | Motor rotation speed, motor feedback pulse number, pulse counts of pulse command, position error counts, motor torque, motor current, rotor position, input frequency of pulse command, running status, I/O status etc. | |
| Protection | | Overspeed, overvoltage, undervoltage, overcurrent, overload, brake abnormal, encoder error, overheated, excessive position deviation etc. | |
| Display and operation | | 5-digit LED panel, 4 keys,2 LED lights | 6-digit LED panel, 4 keys, 2 LED lights |
| Communication | | CAN, RS232/RS485 | |
| Application load's moment of inertia | | Less than 5 times of the motor moment of inertia | |

# *Servo Motor And Drive*

## ⋙ Technical specification of servo drive

| Model | | EMC | EMD |
|---|---|---|---|
| Power | | 1PH or 3PH AC 220V/380V ±15% , 50/60Hz | 3PH AC 380V ±15% , 50/60Hz |
| Environment | Temperature | Operating temperature: 0~45°C; Storage temperature:-40~ 50°C | |
| | Humidity | <90°C(Non-condensing) | |
| | Vibration | <0.5G(4.9m/s$^2$) 10~60Hz(Non-continuous operation) | |
| Control mode | | (1) Position control mode<br>(2) Speed control mode(External analog signal / internal parameters)<br>(3) Speed control trial run<br>(4) JOG trial run<br>(5) Torque control<br>(6) Closed=loop control pressure mode | |
| Regenerative brake | | External | |
| Feedback mode | | Incremental encoder | Resolver |
| Feature | Speed frequency response | ≥400Hz | |
| | Speed fluctuation | Below 0.03%(Load fluctuation 0 to 100%, at rated speed) | |
| | Speed control ratio | 1:5000 | |
| | Input pulse frequency | 0~500KHz | |
| Control input | | Eight programmable input | |
| | | (1) Servo enable<br>(2) Alarm clearing<br>(3) CCW drive forbidden<br>(4) CW drive forbidden<br>(5) Deviation counter clearing<br>(6) Pulse command disable<br>(7) Zero-speed position selection 1<br>(8) CCW torque limited<br>(9) CW torque limited<br>(10) Torque mode switch<br>(11) Internal position selection 1<br>(12) Internal position selection 2<br>(13) Internal position selection 3<br>(14) Internal speed selection 1 | (15) Internal speed selection 2<br>(16) Internal speed selection 3<br>(17) Internal torque selection 1<br>(18) Internal torque selection 2<br>(19) Electronic gear ratio selection 1<br>(20) Electronic gear ratio selection 2<br>(21) Running direction selection 1<br>(22) Running direction selection 2<br>(23) Running direction reverse<br>(24) Emergency stop<br>(25) Launch the origin back<br>(26) Origin back reference point<br>(27) Internal position running startup signal |
| Control output | | Four programmable output | |
| | | (1) Servo ready<br>(2) Servo alarm<br>(3) Position completed<br>(4) Electromagnetism brake<br>(5) Speed reached<br>(6) Origin regression completed | |
| Position control mode | Input pulse type | (1) Pulse+direction; (2) CCW pulse/CW pulse; (3) Two-phase A/B quadrature pulse | |
| | Electronic gear | Setting range: 1~65535/1~65535 | |
| | Feedback pulse | Adjusta according to the encoder | |
| Speed control mode | | (1) 8 internal speed settings<br>(2) External analog signal(DC -10 ~ +10V) | |
| Torque control mode | | (1) 4 internal torque setting<br>(2) External analog signal(DC -10~ +10V) | |
| Acc/Dec function | | Adjustable by parameters: 1~1000r/min or 1000~0r/min | |
| Torque limited Function | | Torque limited range: -300 ~ +300% | |
| Monitoring | | Motor rotation speed, motor feedback pulse number, pulse counts of pulse command, position error counts, motor torque, motor current, rotor position, input frequency of pulse command, running status, I/O status etc. | |
| Protection | | Overspeed, overvoltage, undervoltage, overcurrent, overload, brake abnormal, encoder error, overheated, excessive position deviation etc. | |
| Display and operation | | 6-digit LED panel, 4 keys,2 LED lights | External operation box,LED/LCD operational |
| Communication | | CAN, RS232/RS485 | |
| Application load's moment of inertia | | Less than 5 times of the motor moment of inertia | |

# *Servo Motor And Drive*

## Servo motor

### 60/80 Series servo motor

- The max torque is up to 300% of rated torque.
- The max current is up to 300% of rated current.
- The max speed is up to 4500rpm.
- Be used to drive the feed shaft of various machineries.
- Various models (200W~1000W, with brake etc).
- Standard mounted wire-saving encoder 2500P/R
- Standard protection configuration is IP65.

### 110/130 Series servo motor

- The max torque is up to 300% of rated torque.
- The max current is up to 300% of rated current.
- The max speed is up to 3200rpm.
- Be used to drive the feed shaft of various machineries.
- Various models (1.0KW~3.1W, with brake etc).
- Standard mounted Incremental encoder 2500P/R.
- Optional absolute encoder 131072P/R
- Standard protection configuration is IP65.

### 180 Series servo motor

- The max torque is up to 300% of rated torque.
- The max current is up to 300% of rated current.
- The max speed is up to 3000rpm.
- Be used to drive the feed shaft of various machineries.
- Various models (2.5KW~5.0KW, with brake etc).
- Standard mounted Incremental encoder 2500P/R.
- Standard protection configuration is IP65

### 220 Series servo motor

- The max torque is up to 300% of rated torque.
- The max current is up to 300% of rated current.
- The max speed is up to 2250rpm.
- Be used to drive the feed shaft of various machineries.
- Various models (7.5KW~22.0KW, with brake etc).
- Standard mounted Resolver.
- Standard protection configuration is IP54

## Specification description

**BTM - 60 S 006 A W 2 2**

| BTM | Motor series | Designing sequence | Rated torque | Rated speed | Encoder | Option parts | Shaft end |
|---|---|---|---|---|---|---|---|
| B-TECH Motor | 60/80<br>110/130<br>180<br>220 | **S**: Standard<br>**E**: Enhanced | **006**: 0.64N·m<br>**013**: 1.27N·m<br>**016**: 1.60N·m<br>**024**: 2.40N·m<br>**032**: 3.20N·m | **A**: 3000rmp<br>**B**: 2500rmp<br>**C**: 2000rmp<br>**D**: 1500rmp<br>**E**: 1000rmp | **W**: Wire-saving Encoder 2500P/R<br>**A**: Absolute Encoder 131072P/R<br>**I**: Incremental Encoder 131072P/R<br>**R**: Resolver | **1**: None<br>**2**: With Oil Seal<br>**3**: With Brake<br>**4**: With Oil Seal, with Brake | **1**: Flat, Without Keys (Standard)<br>**2**: Flat, With Keys, With Screw Thread |

# *Servo Motor And Drive*

## ⋙ Motor adapter table

| Servo Motor | | | | Servo Drive | |
|---|---|---|---|---|---|
| Series | Speed(rmp) | Power(KW) | Model | Single phase 220V | Three phase 380V |
| 60 | 3000 | 0. 2 | BTM-60S006A | BTA-05A[ ]A | |
| | 3000 | 0. 4 | BTM-60S013A | BTA-05A[ ]A | |
| 80 | 3000 | 0. 5 | BTM-80S016A | BTA-08A[ ]A | |
| | 3000 | 0. 75 | BTM-80S024A | BTA-08A[ ]A | |
| | 3000 | 1. 0 | BTM-80S032A | BTA-10A[ ]A | |
| 110 | 2500 | 1. 0 | BTM-110S040B | BTB-15A[ ]A | |
| | 2500 | 1. 57 | BTM-110S060B | BTB-15A[ ]A | |
| 130 | 2500 | 1. 0 | BTM-130S040B | BTB-15A[ ]A | |
| | 2500 | 1. 3 | BTM-130S050B | BTB-15A[ ]A | |
| | 2500 | 1. 57 | BTM-130S060B | BTB-15A[ ]A | |
| | 1000 | 0. 63 | BTM-130S060E | BTA-10A[ ]A | |
| | 2500 | 1. 96 | BTM-130S075B | BTB-15A[ ]A | |
| | 2000 | 1. 57 | BTM-130S075C | BTB-25A[ ]A | |
| | 1000 | 0. 79 | BTM-130S075E | BTA-10A[ ]A | |
| | 2500 | 2. 6 | BTM-130S100B | BTB-30A[ ]A | |
| | 2000 | 2. 1 | BTM-130S100C | BTB-30A[ ]A | |
| | 1500 | 1. 57 | BTM-130S100D | BTB-25A[ ]A | |
| | 1000 | 1. 0 | BTM-130S100E | BTA-10A[ ]A | |
| | 2000 | 3. 1 | BTM-130S150C | BTMB-30A[ ]A | |
| | 1500 | 2. 35 | BTM-130S150D | BTB-30A[ ]A | |
| 180 | 2000 | 3. 0 | BTM-180S[E]143C | BTC-60A[ ]A | BTC-60B[ ]A |
| | 2000 | 4. 0 | BTM-180S[E]191C | BTC-60A[ ]A | BTC-60B[ ]A |
| | 2000 | 5. 0 | BTM-180S[E]239C | BTC-60A[ ]A | BTC-60B[ ]A |
| | 2000 | 6. 0 | BTM-180S[E]287C | BTC-60A[ ]A | BTC-60B[ ]A |
| | 1000 | 2. 5 | BTM-180S[E]239E | BTC-60A[ ]A | BTC-60B[ ]A |
| | 1000 | 3. 0 | BTM-180S[E]287E | BTC-60A[ ]A | BTC-60B[ ]A |
| | 1000 | 4. 0 | BTM-180S[E]382E | BTC-60A[ ]A | BTC-60B[ ]A |
| | 1000 | 5. 0 | BTM-180S[E]478E | BTC-60A[ ]A | BTC-60B[ ]A |
| 220 | 1500 | 7. 5 | BTM-220E478D | | BTD-1AB[ ]A |
| | 1500 | 11 | BTM-220E700D | | BTD-1AB[ ]A |
| | 1500 | 15 | BTM-220E955D | | BTD-1EB[ ]A |
| | 2000 | 11 | BTM-220E525C | | BTD-1AB[ ]A |
| | 2000 | 15 | BTM-220E716C | | BTD-1EB[ ]A |
| | 2000 | 22 | BTM-220E10EC | | BTD-2BB[ ]A |

# Input & Output AC Filter

## Advantage Feature

- Perfect solution products of BTI problem. Eliminate harmonic wave lower than 1%.
- Excellent noise rejection.
- Effectively reduce electromagnetic interfere of inverter.
- Input filter is installed on the input side of the inverter.
- Match with all kinds inverter for motor driving, elevators and other equipment
- Input filter is specially designed based on the frequency-domain characterization of inverter input interfering electric networking and other digital equipments.
- Good performance of suppressing common mode and differential mode interference.
- Suitable for the working place with strict requirement of circumstance. Suitable for the switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analysis instrument as well as the other electron equipments and inverter equipments.

## Technical data

### Input AC filter(Single phase)

1. Maximum operating voltage: 250VAC
2. Operating frequency: 50/60Hz
3. Hipot test voltage(one mimute)
   P---E: 2000VDC
   P---E: 1760VDC
4. Maximum leakage current:
   Line to Ground at 250VAC 50Hz:
   0.3mA(10-20A);0.5mA(30-50A)
   1.0mA(75-100A);0.002mA(B types)
5. Operating temperature: -25℃~+85℃
6. Min. resistance: Line to Ground at 500VDC: 200MΩ

**AC filter(Single phase 200V~250V)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT-FIT1-d75 | 220 | 0.75 | 4 |
| BT-FIT1-1d5 | 220 | 1.5 | 7 |
| BT-FIT1-2d2 | 220 | 2.2 | 10 |
| BT-FIT1-004 | 220 | 4 | 16 |
| BT-FIT1-5d5 | 220 | 5.5 | 25 |
| BT-FIT1-7d5 | 220 | 7.5 | 30 |
| BT-FIT1-011 | 220 | 11 | 42 |
| BT-FIT1-015 | 220 | 15 | 55 |

### Input AC filter(Three phase)

1. Maximum operating voltage: 460VAC
2. Operating frequency: 50/60Hz
3. Hipot test voltage(one mimute)
   P---E: 2700VDC
   P---E: 2250VDC
4. Operating temperature: -25℃~+85℃
5. Min. resistance: Line to Ground at 500VDC: 200MΩ

### Output AC filter(Three phase)

1. Maximum operating voltage: 460VAC
2. Operating frequency: 0-120Hz
3. Switching frequency: 16KHz max
4. Hipot test voltage(one mimute)
   P---E: 2700VDC
   P---E: 2250VDC
5. Operating temperature: -25℃~+85℃
6. Min. resistance: Line to Ground at 500VDC: 200MΩ

**AC filter(Three phase 320~460V)**

| Model | | Voltage | Power | Current |
|---|---|---|---|---|
| Input | Output | (V) | (KW) | (A) |
| BT-FIT3-d75 | BT-FOT3-d75 | 380 | 0.75 | 5 |
| BT-FIT3-1d5 | BT-FOT3-1d5 | 380 | 1.5 | 5 |
| BT-FIT3-2d2 | BT-FOT3-2d2 | 380 | 2.2 | 8 |
| BT-FIT3-004 | BT-FOT3-004 | 380 | 4 | 8 |
| BT-FIT3-5d5 | BT-FOT3-5d5 | 380 | 5.5 | 16 |
| BT-FIT3-7d5 | BT-FOT3-7d5 | 380 | 7.5 | 16 |
| BT-FIT3-011 | BT-FOT3-011 | 380 | 11 | 30 |
| BT-FIT3-015 | BT-FOT3-015 | 380 | 15 | 30 |
| BT-FIT3-018 | BT-FOT3-018 | 380 | 18.5 | 45 |
| BT-FIT3-022 | BT-FOT3-022 | 380 | 22 | 45 |
| BT-FIT3-030 | BT-FOT3-030 | 380 | 30 | 60 |
| BT-FIT3-037 | BT-FOT3-037 | 380 | 37 | 75 |
| BT-FIT3-045 | BT-FOT3-045 | 380 | 45 | 100 |
| BT-FIT3-055 | BT-FOT3-055 | 380 | 55 | 120 |
| BT-FIT3-075 | BT-FOT3-075 | 380 | 75 | 150 |
| BT-FIT3-090 | BT-FOT3-090 | 380 | 90 | 200 |
| BT-FIT3-110 | BT-FOT3-110 | 380 | 110 | 250 |
| BT-FIT3-132 | BT-FOT3-132 | 380 | 132 | 300 |
| BT-FIT3-185 | BT-FOT3-185 | 380 | 185 | 400 |
| BT-FIT3-220 | BT-FOT3-220 | 380 | 220 | 400 |
| BT-FIT3-250 | BT-FOT3-250 | 380 | 250 | 500 |
| BT-FIT3-280 | BT-FOT3-280 | 380 | 280 | 630 |
| BT-FIT3-315 | BT-FOT3-315 | 380 | 315 | 650 |
| BT-FIT3-350 | BT-FOT3-350 | 380 | 350 | 700 |
| BT-FIT3-400 | BT-FOT3-400 | 380 | 400 | 800 |
| BT-FIT3-500 | BT-FOT3-500 | 380 | 500 | 1000 |
| BT-FIT3-560 | BT-FOT3-560 | 380 | 560 | 1200 |

# Input & Output AC Choke

## Product Introduction

The function of input AC choke(reactor) matched with frequency inverter. Because frequency inverter often suffers from surge current and surge voltage impact, which will be seriously damaged performance and service life of frequency inverter and variable frequency drive. so there is requirement to add input reactor in front of the frequency inverter to boycott the surge voltage and surge current, protect the converter and debugger and prolong its service life and prevent harmonic interference. And because the frequency inverter is the variable frequency speed regulation way, so when frequency inverter works, it often produce high harmonic wave and produce waveform distortion, it will affect the normal equipment use, therefore, must add AC reactor at input/output side of frequency inverter , to short wavelengths, limits the harmonic voltage and harmonic current, and improve power quality.

The input and output AC choke of B-Technology limited uses the advanced technology by the high quality silicon steel and steel line. It has low temperature, low noise, simple operation and easy management characteristics.

B-TECH AC choke can matched with all brand frequency inverter, such as Siemens, schneider, ABB, Vacon , Danfoss, Yaskawa, Fuji, Hitachi, mitsubishi and our own EM8, EM9, EM10 series frequency inverter.

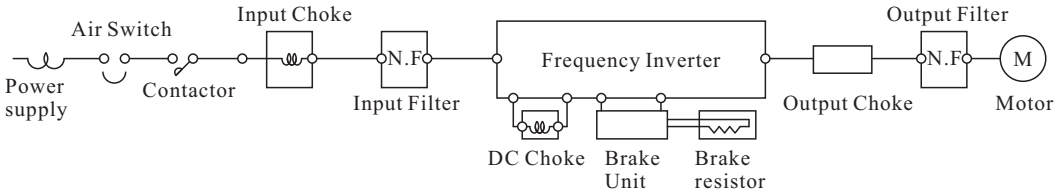
## Advantage Feature:

- System voltage: 3 phase AC 380V ~ 440V.
- Rated current:1.8A ~1250A.
- Using frequency: 0 ~ 60Hz.
- Input reactor: 0.75KW ~ 600KW.
- Altitude: <1000 meters.
- Environment temperature: -25℃ ~ 40℃.
- All copper and silicon steel sheet .
- Small size, light weight, small footprint, easy to install.
- Increase Drive System Reliability .
- Reduce Harmonics; Reduce Surge Currents, Reduce Voltage doubling Effects, improve True Power Factor.
- All-copper wire and silicon steel sheet elegant design noise level: <40db .
- Standard:IEC289:1987.
- Insulation class: H.
- GB10229-88 Reactor (equivalent to IEC289:1987).
- JB9644-1999 Reactor for semi-conductor transmission.
- Insulation Resistance: 1000VDC, insulation resistance ≥100MΩ.
- Reactors are used vacuum dipping process, the high temperature bake curing. Coil has good insulation properties, the overall mechanical strength, moisture resistance.
- Coil is F, H class insulation system, greatly improving the reliability of long-term operation.
- Low temperature, low loss, low cost, utilization rate.

## Model Introduction:

**AC choke(Three phase 320~460V)**

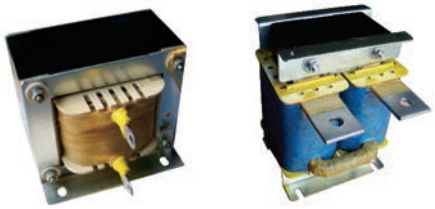
| Model | | Voltage | Power | Current |
|---|---|---|---|---|
| Input | Output | (V) | (KW) | (A) |
| BT-RAI3-d75 | BT-RAO3-d75 | 380 | 0.75 | 1.8 |
| BT-RAI3-1d5 | BT-RAO3-1d5 | 380 | 1.5 | 2.5 |
| BT-RAI3-2d2 | BT-RAO3-2d2 | 380 | 2.2 | 5 |
| BT-RAI3-004 | BT-RAO3-004 | 380 | 4 | 10 |
| BT-RAI3-5d5 | BT-RAO3-5d5 | 380 | 5.5 | 15 |
| BT-RAI3-7d5 | BT-RAO3-7d5 | 380 | 7.5 | 20 |
| BT-RAI3-011 | BT-RAO3-011 | 380 | 11 | 30 |
| BT-RAI3-015 | BT-RAO3-015 | 380 | 15 | 30 |
| BT-RAI3-018 | BT-RAO3-018 | 380 | 18.5 | 50 |
| BT-RAI3-022 | BT-RAO3-022 | 380 | 22 | 50 |
| BT-RAI3-030 | BT-RAO3-030 | 380 | 30 | 60 |
| BT-RAI3-037 | BT-RAO3-037 | 380 | 37 | 75 |
| BT-RAI3-045 | BT-RAO3-045 | 380 | 45 | 90 |
| BT-RAI3-055 | BT-RAO3-055 | 380 | 55 | 120 |
| BT-RAI3-075 | BT-RAO3-075 | 380 | 75 | 150 |
| BT-RAI3-090 | BT-RAO3-090 | 380 | 90 | 190 |
| BT-RAI3-110 | BT-RAO3-110 | 380 | 110 | 250 |
| BT-RAI3-132 | BT-RAO3-132 | 380 | 132 | 290 |
| BT-RAI3-185 | BT-RAO3-185 | 380 | 185 | 400 |
| BT-RAI3-220 | BT-RAO3-220 | 380 | 220 | 440 |
| BT-RAI3-250 | BT-RAO3-250 | 380 | 250 | 490 |
| BT-RAI3-280 | BT-RAO3-280 | 380 | 280 | 540 |
| BT-RAI3-315 | BT-RAO3-315 | 380 | 315 | 600 |
| BT-RAI3-350 | BT-RAO3-350 | 380 | 350 | 700 |
| BT-RAI3-400 | BT-RAO3-400 | 380 | 400 | 800 |
| BT-RAI3-500 | BT-RAO3-500 | 380 | 500 | 1000 |
| BT-RAI3-560 | BT-RAO3-560 | 380 | 560 | 1100 |
| BT-RAI3-600 | BT-RAO3-600 | 380 | 600 | 1250 |



# DC Choke

## Product Introduction

Dc flat wave Choke (reactor) in the circuit is mainly used to improve the quality of power, increase power factor; Our company's the DC flat wave reactor used high-quality international advanced cold rolled silicon steel sheet , specific volume small, low temperature, noise etc., DC specifications from 2 Amp to 10K Amp, voltage from 220V to 2000V; and we have huge amount inventory, welcome customers to inquire.



## Advantage Feature:

- Rated voltage: 500V ~ 700V.
- Withstand voltage test: 3.5KV 60S
- Switch frequency: 0 ~ 18KHz
- Rated current:5 A ~ 1200A.
- Operating frenquency:50/60Hz.
- Insulation resistance: > 200MΩ@500VDC.
- Excellent harmonic wave rejection, and improving .
- Effectively reduce electromagnetic interfere of inverter .
- Input filter is installed on the input side of the inverter.
- Match with all kinds inverter for motor driving, elevators and other equipment.
- Perfect solution products of BTI problem. Eliminate harmonic wave lower than 2%.
- Input filter is specially designed based on the frequency-domanin characterization of inverter input interfering electric net working and other digital equipments.
- Good performance of suppressing common mode and differential mode interference.
- Suitable for the working place with strict requirement of circumstance. Suitable for the switching power supply, UPS, ATM, bill counter, embroidery machine, fuel dispenser, engraving machine, controller, industrial computer, scientific analysis instrument as well as the other electron equipments and inverter equipments.

## Main Function

- Reduce the network current waveform distortion rate created by rectifier circuit of capacitance filtering.
- To reduce and prevent for rectifier bridge damage and filter capacitor overheat by the pulse current impact in process of filtering capacitor charge and discharge
- Improve grid power factor, reduce total harmonic distortion, improve the quality of power supply of the power
- To improve or inhibit power grid voltage transient fluctuation caused by filter capacitor charging and discharging.

## Application Environment

- The altitude less than 1000 meters.
- Running environment temperature (- 25 centigrade ~ + 40 centigrade), relative humidity no more than 90%.
- The surrounding environment should have a good ventilation conditions, such as install in cabinet, which should be equipped with ventilation equipment.
- No violent vibration and severe turbulence places. Has rainproof equipment place.
- In without explosion dangerous environment, and without enough to corrosion metal and destruction insulation gas and electric conducting dust place.
- The DC circuit after three-phase power rectified.

## Model Introduction:

**DC choke(DC 500~700V)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT-RAD3-d40 | DC 500~700 | 0.4 | 1.5 |
| BT-RAD3-d55 | DC 500~700 | 0.55 | 2 |
| BT-RAD3-d75 | DC 500~700 | 0.75 | 2.5 |
| BT-RAD3-1d5 | DC 500~700 | 1.5 | 4.5 |
| BT-RAD3-2d2 | DC 500~700 | 2.2 | 6 |
| BT-RAD3-3d0 | DC 500~700 | 3.0 | 8 |
| BT-RAD3-3d7 | DC 500~700 | 3.7 | 11 |
| BT-RAD3-5d5 | DC 500~700 | 5.5 | 16 |
| BT-RAD3-7d5 | DC 500~700 | 7.5 | 20 |
| BT-RAD3-011 | DC 500~700 | 11 | 30 |
| BT-RAD3-015 | DC 500~700 | 15 | 35 |
| BT-RAD3-018 | DC 500~700 | 18.5 | 42 |
| BT-RAD3-022 | DC 500~700 | 22 | 50 |
| EM-RAD3-030 | DC 500~700 | 30 | 68 |
| BT-RAD3-037 | DC 500~700 | 37 | 80 |
| BT-RAD3-045 | DC 500~700 | 45 | 100 |
| BT-RAD3-055 | DC 500~700 | 55 | 120 |
| BT-RAD3-075 | DC 500~700 | 75 | 165 |
| BT-RAD3-090 | DC 500~700 | 90 | 190 |
| BT-RAD3-110 | DC 500~700 | 110 | 250 |
| BT-RAD3-132 | DC 500~700 | 132 | 300 |
| BT-RAD3-160 | DC 500~700 | 160 | 350 |
| BT-RAD3-185 | DC 500~700 | 185 | 400 |
| BT-RAD3-200 | DC 500~700 | 200 | 440 |
| BT-RAD3-220 | DC 500~700 | 220 | 480 |
| BT-RAD3-250 | DC 500~700 | 250 | 550 |
| BT-RAD3-280 | DC 500~700 | 280 | 600 |
| BT-RAD3-300 | DC 500~700 | 300 | 650 |
| BT-RAD3-315 | DC 500~700 | 315 | 700 |
| BT-RAD3-355 | DC 500~700 | 355 | 800 |
| BT-RAD3-400 | DC 500~700 | 400 | 900 |
| BT-RAD3-450 | DC 500~700 | 450 | 1000 |
| BT-RAD3-500 | DC 500~700 | 500 | 1100 |
| BT-RAD3-560 | DC 500~700 | 560 | 1250 |

# Sine Wave Filter & Brake Unit

## Sine wave filter

The EM-SWF series sine wave filter adopting trait reactor, having professional filter capacitor and power resistor, reasonable structure, waveform distortion is small, small loss and low noise characteristics, can match with all brands frequency inverter and match many sets of machines, such as wind power, oil field, water and electricity, metallurgy, etc.


## Advantage Feature:

- To converse SPWM voltage current waveform of frequency inverter to approximate sine wave waveform (For the line load feature, the COS is greater than 0. 3 and T H D is less than 5%).
- Protect motor insulation system, reduce bearing current, prolong service life, reduce motor noise.
- With general asynchronous motor can replace frequency induction motor use.
- Effectively restrain the high frequency loss and RF radiation interference, in certain occasions without to use a shielded cable, lowering the field Cable requirements.
- Cable between motor and frequency inverter can extend to 500 meters, the longest can reach 3000 meters above.
- We have 220 V/380 V/440V/690V /1140V three phase variable frequency drive system.
- Suitable motor and inverter power range: 0. 4KW - 1600 KW.
- Suitable frequency inverter output carrier frequency range: 1.5 ~16 KHz.
- Basic frequency range: 0 to 400 Hz (above 50Hz order must tell us when order).
- Driving load forms: asynchronous motor (After special design can use for EPS \UPS and the surrounding power supply system).
- Heat resistant level: F grade (for reactor part).
- Protection level: IP 20.

## Model Introduction:

**Sine wave filter(Three phase to three phase 320V~460V)**

| Model | Voltage(V) | Power(KW) | Current(A) |
|---|---|---|---|
| BT-SWF3-d75 | 380 | 0.75 | 2.5 |
| BT-SWF3-1d5 | 380 | 1.5 | 3.5 |
| BT-SWF3-2d2 | 380 | 2.2 | 5 |
| BT-SWF3-004 | 380 | 4 | 8.5 |
| BT-SWF3-5d5 | 380 | 5.5 | 11 |
| BT-SWF3-7d5 | 380 | 7.5 | 17 |
| BT-SWF3-011 | 380 | 11 | 25 |
| BT-SWF3-015 | 380 | 15 | 33 |
| BT-SWF3-018 | 380 | 18.5 | 39 |
| BT-SWF3-022 | 380 | 22 | 45 |
| BT-SWF3-030 | 380 | 30 | 60 |
| BT-SWF3-037 | 380 | 37 | 75 |
| BT-SWF3-045 | 380 | 45 | 90 |
| BT-SWF3-055 | 380 | 55 | 110 |
| BT-SWF3-075 | 380 | 75 | 150 |
| BT-SWF3-090 | 380 | 90 | 190 |
| BT-SWF3-110 | 380 | 110 | 220 |
| BT-SWF3-132 | 380 | 132 | 260 |
| BT-SWF3-185 | 380 | 185 | 370 |
| BT-SWF3-220 | 380 | 220 | 400 |
| BT-SWF3-250 | 380 | 250 | 450 |
| BT-SWF3-280 | 380 | 280 | 500 |
| BT-SWF3-315 | 380 | 315 | 560 |
| BT-SWF3-350 | 380 | 350 | 700 |
| BT-SWF3-400 | 380 | 400 | 800 |
| BT-SWF3-500 | 380 | 500 | 1000 |
| BT-SWF3-630 | 380 | 630 | 1300 |

## Brake Unit

BT-BU Dynamic Braking Unit is a high-performance braking product with Canada technology and has been applied extensively to elevator, crane, production machinery, mine hoist, centrifuger and oil pump in oil field, etc. BT-BU Dynamic Braking Unit is able to release the energy regenerated during motor speed regulation by brake resistance so as to produce enough braking torque to ensure normal operation of inverter and other devices.

## Model Introduction:

| Model | Specific occasion | Min. resistance (Ω) | Rated current (A) | Peak current (A) | Match inverter (KW) |
|---|---|---|---|---|---|
| BT-BU1 | Dynamic braking | 20 | 6 | 33 | 0.75 ~ 18 |
| BT-BU2 | | 15 | 10 | 50 | 22 ~ 45 |
| BT-BU3 | | 7 | 15 | 100 | 55 ~ 110 |
| BT-BU3H | | 5 | 40 | 150 | 132 ~ 160 |
| BT-BU4H | | 3.5 | 50 | 200 | 187 ~ 220 |
| BT-BU5H | | 2.5 | 60 | 300 | 250 ~ 315 |
| BT-BU3HA | With keypad dynamic braking | 5 | 40 | 150 | 132 ~ 160 |
| BT-BU4HA | | 3.5 | 50 | 200 | 187 ~ 220 |
| BT-BU5HA | | 2.5 | 60 | 300 | 250 ~ 315 |

# Brake Resistor & Aluminum Resistor

## Brake resistor Advantage Feature:

- Multi-terminal and multi-resistance,fixed ,adjustable are available ,out wire's length are available following customer requirement, special terminals are available for unusual applications.
- Element consisting of a wave-shaped alloy ribbon or non-wave shaped alloy wire.
- Good dissipation ,high stability, high power rating, high over load and long life.
- Conforms to the ROHS standard and the LEAD-FREE non-lead standard.

## Application:

DR series is suitable for educational modeling applications, load testing ,industrial machinery, electric power distribution ,instruments , automation control installations ,lift trucks ,overhead cranes, elevators, arc and spot welders ,battery chargers ,machine tools ,conveyors, and UPS systems

## Aluminum resistor advantage Feature:

- Durable, vibration-proof, dissipates heat well and low temperature coefficient with resistance varying in direct proportion.
- BTZ series successfully applied for national patent (ZL2004300866567)
- Specification:
  80W60R,80W100R,80W20R,100W20R,100W100R,120W68R,150W20R,200W20R,200W200R, 300W20R,300W150R,300W200R,400W150R,400W20R,500W100R, 500W20R,800W75R 1040W50R,1040W75R ect.
- Conforms to the ROHS standard and the LEAD-FREE non-lead standard.

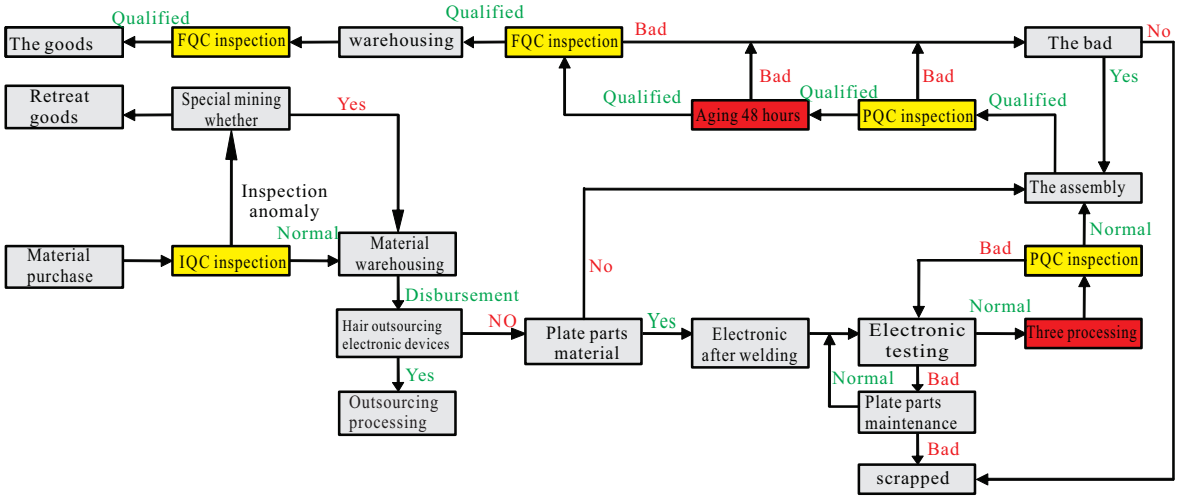
## Application:

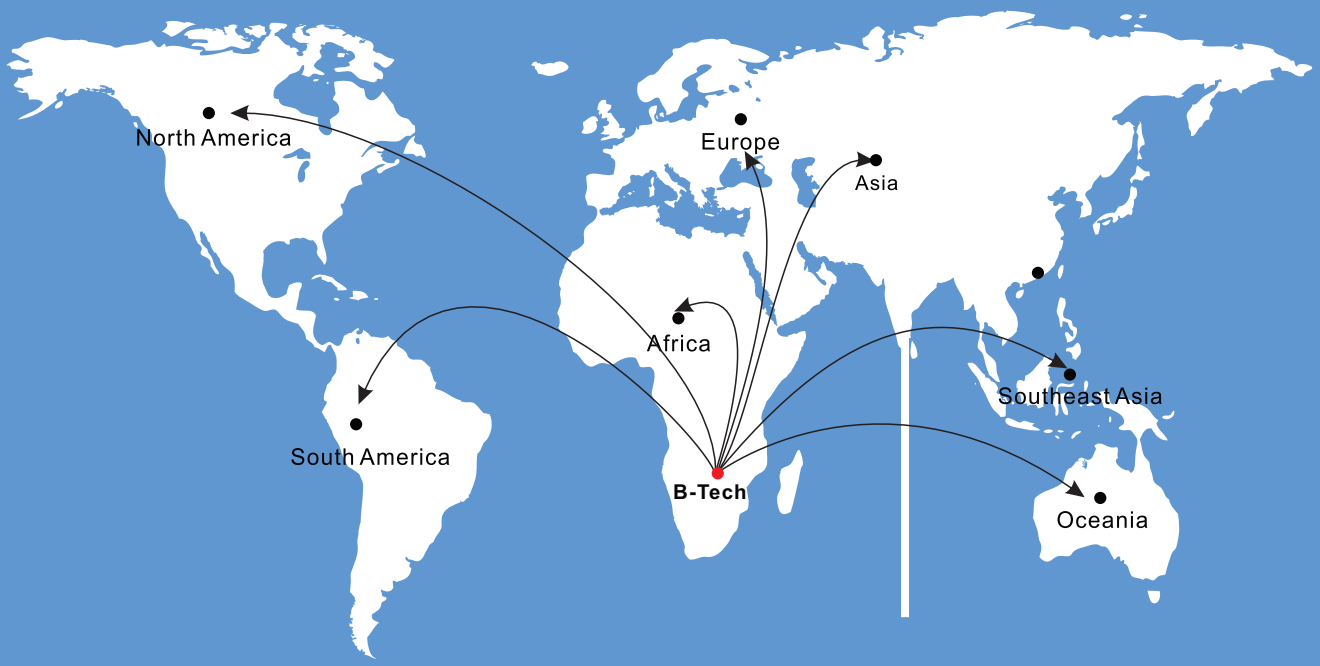
The product is easy to utilize and install, and suitable for a wide range applications. Applications include industrial machinery, load testing, electric power distribution, instruments, and automated control installations.

## Brake resistor matching with inverter:

| Modle | | Matched inverter (KW) | Braking power (KW) | Braking resistor (Ω) | Braking torque (%) |
|---|---|---|---|---|---|
| BT8 Series | BT9 Series | | | | |
| BT8-G3-d75 | BT9-G3-d75 | 0.75 | 0.3 | 400 | 100 |
| BT8-G3-1d5 | BT9-G3-1d5 | 1.5 | | | |
| BT8-G3-2d2 | BT9-G3-2d2 | 2.2 | 0.5 | 250 | |
| BT8-G3-004 | BT9-G3-004 | 4 | 0.8 | 150 | |
| BT8-G3-5d5 | BT9-G3-5d5 | 5.5 | 1.2 | 100 | |
| BT8-G3-7d5 | BT9-G3-7d5 | 7.5 | 1.6 | 75 | |
| BT8-G3-011 | BT9-G3-011 | 11 | 2.0 | 60 | |
| BT8-G3-015 | BT9-G3-015 | 15 | 3.0 | 40 | |
| BT8-G3-018 | BT9-G3-018 | 18 | | 30 | |
| BT8-G3-022 | BT9-G3-022 | 22 | | | |
| BT8-G3-030 | BT9-G3-030 | 30 | 5.0 | 20 | |
| BT8-G3-037 | BT9-G3-037 | 37 | | | |
| BT8-G3-045 | BT9-G3-045 | 45 | 10.0 | 8 | |
| BT8-G3-055 | BT9-G3-055 | 55 | | | |
| BT8-G3-075 | BT9-G3-075 | 75 | 15.0 | | |
| BT8-G3-093 | BT9-G3-093 | 93 | | | |
| BT8-G3-110 | BT9-G3-110 | 110 | 20.0 | 6 | |
| BT8-G3-132 | BT9-G3-132 | 132 | | | |
| BT8-G3-160 | BT9-G3-160 | 160 | 25.0 | 5 | |
| BT8-G3-185 | BT9-G3-185 | 185 | 30.0 | 4 | |
| BT8-G3-200 | BT9-G3-200 | 200 | | | |
| BT8-G3-220 | BT9-G3-220 | 220 | | | |
| BT8-G3-250 | BT9-G3-250 | 250 | 40.0 | 3 | |
| BT8-G3-280 | BT9-G3-280 | 280 | | | |
| BT8-G3-315 | BT9-G3-315 | 315 | | | |
| BT8-G3-350 | BT9-G3-350 | 350 | 50.0 | 2.5 | |
| BT8-G3-400 | BT9-G3-400 | 400 | 70.0 | 2 | |
| BT8-G3-500 | BT9-G3-500 | 500 | | | |

# Application and Production Process



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