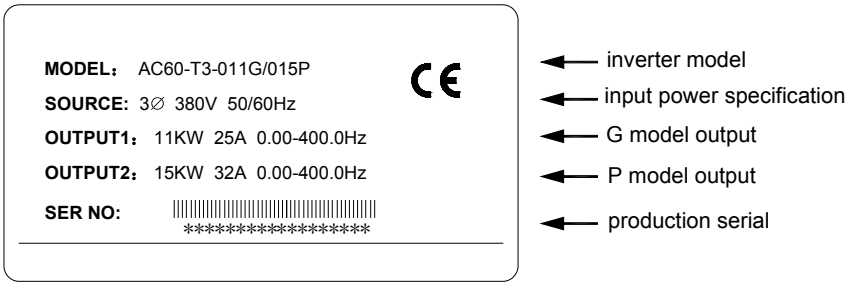
Chapter 2: Purchase Inspections and Products Specification

2.1 Purchase inspection

1. Before unpacking, please confirm whether there is any damage occurred during transportation.
2. Check whether the details on the nameplate of frequency inverter are in accordance with your order.
3. AC60 series frequency inverter have undergone a rigorous testing and quality control before leaving factory. Please check all of qualified certification, product manual and warranty cards.
4. Please check the frequency inverter to ensure it without any internal damage. If it has obvious damage, please do not operate machine and timely contact the manufacturer or distribution company, in order to avoid the accidents.

2.2 Nameplate and models illustration

1. Nameplate illustrate



2. Models illustration

AC60 - T 3 - 015 G /018 P

inverter series	
AC60	general format
AC61	injrction molding machine
AC62	draw bench

code	voltage class
T	three phase
S	single phase

code	voltage class
2	220V
3	380V
6	660V
11	1140V

code	inverter type
G	general format
P	blower and water pump
Z	plastic machine
L	draw bench
H	mid inverter governor

code	fit power of motor（kW）
7R5	7.5
011	11
015	15
018	18
022	22
030	30

2.3 Product technique specifications

Items		Specifications
Power	Voltage frequency	Single phase 220V 50/60Hz Three phase 220V 50/60Hz Three phase 380V 50/60Hz Three phase 660V 50/60Hz Three phase 1140V 50/60Hz
	Allowable fluctuations	Voltage: ±15%, frequency: ±5%
Control	Frequency control range	G:0-400Hz P:0-400Hz Z: 0-400Hz、 L:0-400Hz H:0-2000Hz
	Output frequency accuracy	±0.5% of max frequency
	Frequency setting resolution	0.01Hz: Press UP and Down keys of keyboard 0.2Hz: Potentiometers analog input
	Voltage /Frequency (V/F) characteristics	50% to 100% of rated voltage and 25 to 400Hz(3000Hz) are adjustable separately
	Carrier frequency	1.0-15.0KHz,Random carrier modulation

	Torque upgrade	0～25.0% adjustable,auto torque boost,random V/F curve optional
	Maximum Capacity	G,H,L model: 150% for one minute, 180% for 2s, 200% instant jump. Z model: 150% for one minute, 180% for 30s ,250% instant jump. P model: 120% for one minute, 150% instant jump.
	Acceleration and Deceleration time	0.1-6500s
	Rated output voltage	Take advantage of the power supply voltage compensation function, if motor rated voltage is 100%,the voltage can be set in the 50 -100% scope(the voltage output should not exceed the input voltage)
	Automatic voltage regulation function	When the grid voltage fluctuates, output voltage variation is little and possible to keep V/F constant.
	Automatic energy-saving operation	According to the load conditions, optimize the V / F curves automatically to implement energy saving operation
	Standard functions	PID control, Acceleration and deceleration time adjustable, Acceleration and deceleration mode variable, Carrier frequency adjustment, Torque boost, Current limiting, Speed tracking and power fall restart, Frequency jumping, Frequency fluctuation limit control, Program running, Multi-steps speed, Pendulum frequency operation, RS485, Analog output, Pulse output frequency
	Brake	Dynamic braking, DC braking
	Frequency setting input	Keyboard number settings, keyboard potentiometer, external terminal VS1 : 0 ~ 10V, external terminal VS2: - 10V - 10V, the external terminal AS : 4~20mA, RS485 and signal composition and terminal options
	Signal Feedback input	External terminal VS1 : 0~10V, external terminal VS2:-10V~10V, external terminal AS : 4~20mA, RS485, frequency pulse input
	Input order signals	Start, stop, forward and reverse rotating, jog, multi-steps speed, free stop, reset, acceleration and deceleration time choice, frequency reference settings channels choice, external malfunctions alarm
	External output signal	Relay output, the collector output, 0-10V output, 4-20mA output, the frequency pulse output
Protection function		Overvoltage, undervoltage, current-limiting, overcurrent, overload, electronic thermal relays, overheat, over voltage stall, data protection

Display	Setting	Function number,data
	Running	Output frequency, give frequency,output current, input voltage, output voltage, motor speed, PID feedback, quantitative PID, module temperature, input and output terminal
	Fault	Overvoltage, undervoltage, overcurrent, short circuit, defaultphase,overload, overheat, voltage stall, current limiting, data protection is damaged, current fault operating conditions, historical fault
Condition	Installation site	Indoor, elevation of not more than 1000 m, no corrosive gases and direct sunlight
	Temperature, humidity	-10—+40℃， 20%—90%RH（No condensation）
	Vibration	Below 20Hz less than 0.5g
	Storage Temperature	-25—+65℃
	Installation mode	Wall-mounted type, closet type
	Protection degree	IP20
	Cooling Mode	Forced air-cooling

2.4 Inverter rated output current

Input current	220V	380V	660V	1140V
Rated power	Rated output current(A)			
0.4	2.5			
0.75	4	2.3		
1.5	7	3.7		
2.2	10	5.0		
3.7	16	8.5		
5.5	20	13		
7.5	30	17	10	
11	42	25	15	
15	55	32	18	
18.5	70	38	22	
22	80	45	28	
30	110	60	35	
37	130	75	45	25
45	160	90	52	31
55	200	110	63	38
75	260	150	86	52
93	320	180	98	58
110	380	210	121	75
132	420	250	150	86
160	550	310	175	105
185	600	340	198	115
200	660	380	218	132
220	720	415	235	144
250		470	270	162
280		510	330	175
315		600	345	208
355		670	380	220
400		750	430	260
500		860	540	325
560		990	600	365
630		1100	680	400