

YC6As-1 Current Protector
YC6Vs-1 Voltage Protector
YC6VAs-1 Voltage and Current
protector(Single phase)
YC6VAs-3 Voltage and Current
protector(Three phase)
OPERATION INSTRUCTION
Standard:EN60947-5-1-2004



⚠ Before installing and using this product,
please read this manual carefully and
pay more attention to safety.

YC6As/YC6Vs/YC6VAs

Voltage And Current Protector

1.General

YC6VAs voltage and current display relay is a microprocessor-based voltage monitoring device for single-phase AC networks to protect electrical equipment from surge voltage. The device analyzes the main voltage and displays its current value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button.

The value is stored in non-volatile memory. Aluminum wires and copper wires can be used for connection.

2.Application

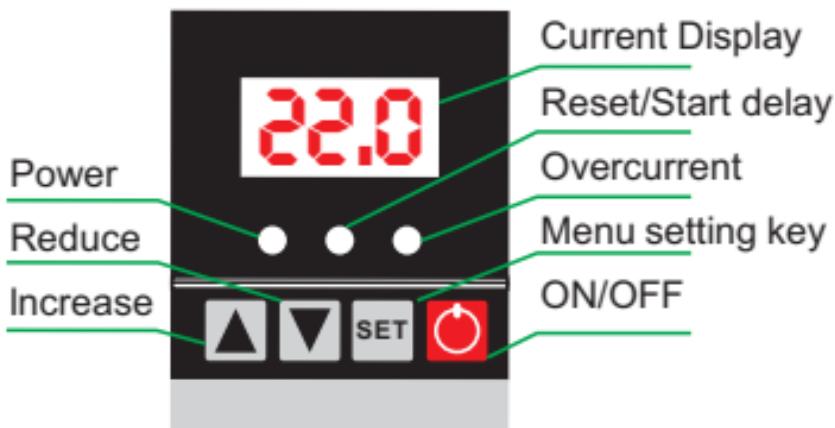
Voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent protection.

3.Techincal data

YC6As-1

Model	YC6As-1 40A	YC6As-1 63A
Rated supply voltage	AC 220V	
Operation Voltage Range	AC 80~350V	
Rated Frequency	50/60Hz	
Electric current setting range	1~40A	1~63A
Operating Temperature	-50 °C ~ +55 °C	
Storage Temperature	-30 °C ~ +70 °C	
Rated current	40A(subject to product label)	63A(subject to product label)
>U And <U Trip Delay	0.5S	
Reset/Start Delay	1~600S	
Voltage measurement accuracy	1%(Not exceeding 1% of the overall range)	
Rated Insulation Voltage	400V	
Protection Degree	IP20	



3.1 Default setting

Table 1

Technical parameter	Setting range	Step	Factory setting
Over-voltage protection value	1~40/63A	0.1A	40/63A
Recovery delay time	1~600S	1S	5S
Continuous overcurrentprotect times	A01~A20/oFF	A01	oFF

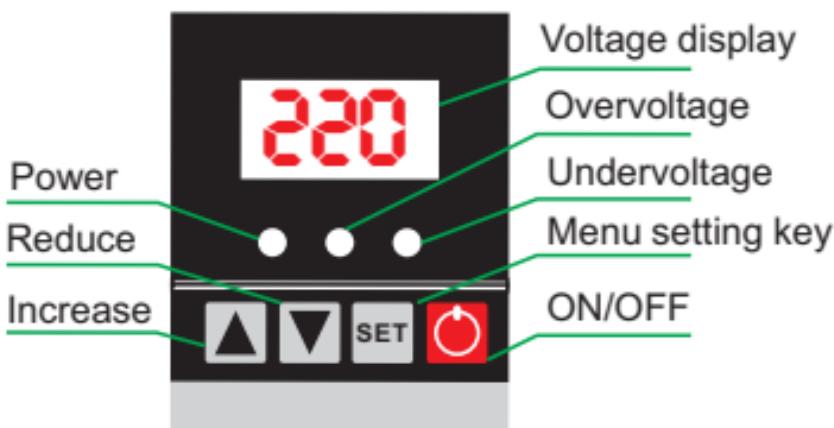
3.2 Parameters Settings

-
- Display current
Click to set
 - Over-current protection value
1-40/63A
Click to set
 - Recovery delay time
1-600S
Click to set
 - Continuous overcurrent
protrct times A01-A20/oFF
Long press set for 5 seconds to save
 To adjust the figure quickly by long time press the add or subtract key

3.3 Technical data

YC6Vs-1

Model	YC6Vs-1 40A	YC6Vs-1 63A
Rated supply voltage	AC 220V	
Operation Voltage Range	AC 80~350V	
Rated Frequency	50/60Hz	
Operating Temperature	-50 °C ~ +55 °C	
Oversupply(> U)setting Range	230~300V	
Undervoltage(< U)setting Range	210~140V	
Rated current	40A(subject to product label)	63A(subject to product label)
> UAnd < Uttrip delay	0.5S	
Reset/start delay	1~600S	
Voltage measurement accuracy	2%(Not exceeding 2% of the overall range)	
Rated insulation Voltage	400V	
Protection Degree	IP20	

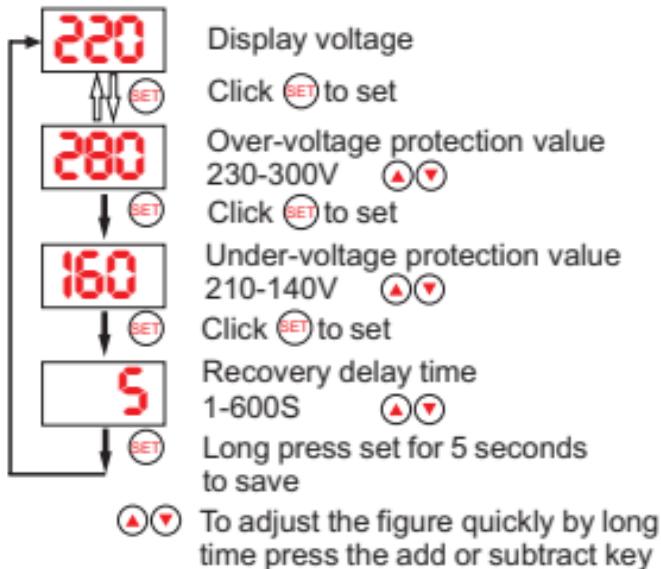


3.4 Default setting

Table 1

Technical parameter	Setting range	Step	Factory setting
Over-voltage protection value	230~300V	1V	280V
Under-voltage protection value	210~140V	1V	160V
Recovery delay time	1~600S	1S	5S

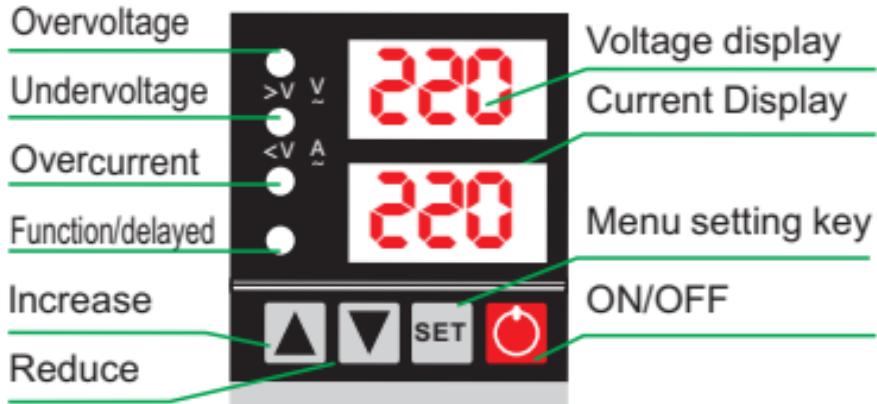
3.5 Parameters Settings



3.6 Technical data

YC6VAs-1

Model	YC6VAs-1 40A	YC6VAs-1 63A
Rated supply voltage	AC 220V	
Operation voltage range	AC 80V~400V(single phase)	
Rated frequency	50/60Hz	
Electric current(>A)setting range	1~40/63A	
Oversupply(>U)setting range	230~300V	
Undervoltage(<U)setting range	210~140V	
Rated current	40/63A(subject to product label)	
>U and <U trip delay	0.1~30S	
Reset/start delay	1~500S	
Voltage measurement accuracy	2%(Not exceeding 2% of the overall range)	
Rated insulation voltage	400V	
Output contact	1NO	
Electrical life	10^5	
Mechanical life	10^5	
Protection degree	IP20	
Pollution degree	3	
Altitude	2000m	
Operatintg temperature	-50°C~+55°C	
Humidity	≤ 50%at+40°C(without condensation)	
Storage temperature	-30°C~+70°C	

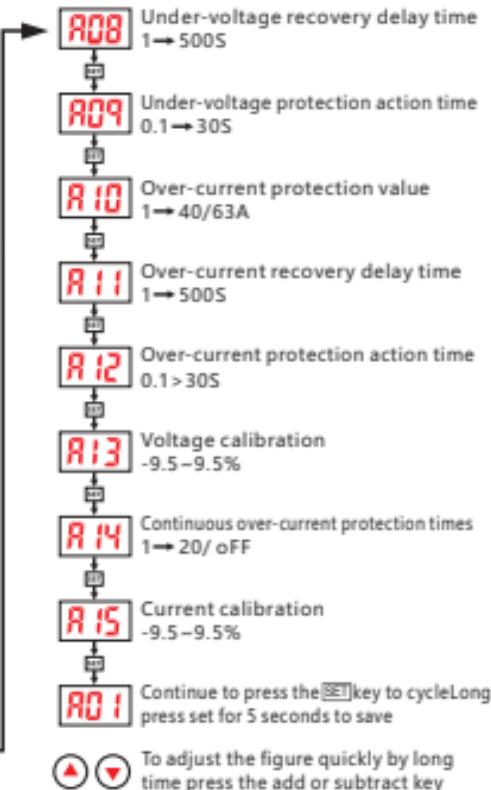
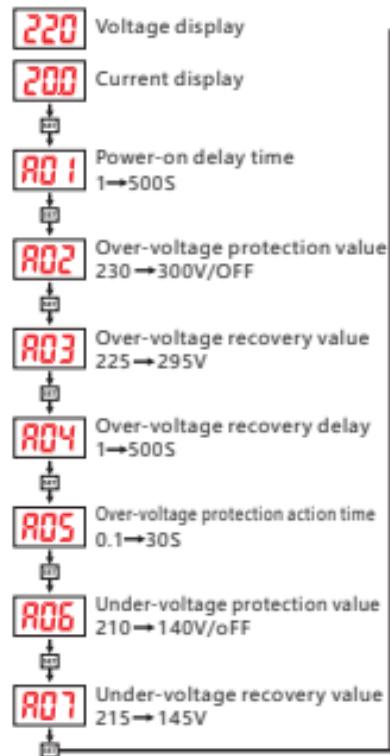


3.7 Default setting

Table 1

Technical parameter	Setting range	Step	Factory setting
Power-on delay time	1~500S	1S	10S
Over-voltage protection value	230~300V	1V	270V
Over-voltage recovery value	225~295	1V	265V
Over-voltage recovery delay time	1~500S	1S	30S
Over-voltage protection action time	0.1~30S	0.1S	1S
Under-voltage protection value	210~140V	1V	170V
Under-voltage recovery value	215~145V	1V	175V
Under-voltage recovery delay time	1~500S	1S	30S
Under-voltage protection action time	0.1~30S	0.1S	1S
Over-current protection value	1~40/63A	0.1A	40/63A
Over-current recovery delay time	1~500S	1S	30S
Voltage calibration	-9.5~9.5%	0.5%	0%
Continuous over-current protect times	1~20/OFF	1	OFF
Current calibration	-9.5~9.5%	0.5%	0%

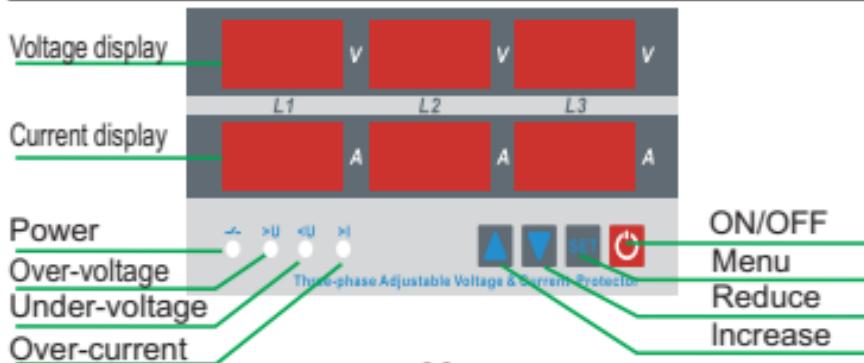
3.8 Function setting



3.9 Technical data

YC6VAs-3

Model	YC6VAs-3(L-N)	YC6VAs-3 (L-L)
Rated supply voltage	AC 220V	AC 380V
Operation voltage range	AC 80~400V(three phase)	AC140~700V(three phase)
Rated frequency	50/60Hz	50/60Hz
Electric current(>A)setting range	1~40A/63A/80A/100A	1~40A/63A/80A/100A
Ovvovoltage(>U)setting range	230~300v	390~500V
Undervoltage(<U)setting range	210~140V	370~260V
Rated current	40A/63A/80A/100A	40A/63A/80A/100A
>U and <U trip delay	0.1~30S	0.1~30S
Reset/start delay	1~500S	1~500S
Voltage measurement accuracy	2%	2%
Rated insulation voltage	400V	700V
Output contact	3NO	3NO
Electrical life	10 ⁵	10 ⁵
Mechanical life	10 ⁵	10 ⁵
Protection degree	IP20	IP203
Pollution degree	3	3
Altitude	≤ 2000m	≤ 2000m
Operatintg temperature	-50°C ~ +55°C	-50°C ~ +55°C
Humidity	≤ 50%at+4 °C (without condensation)	≤ 50%at+4 °C without condensation)
Storage temperature	-30°C ~ +70°C	-30°C ~ +70°C

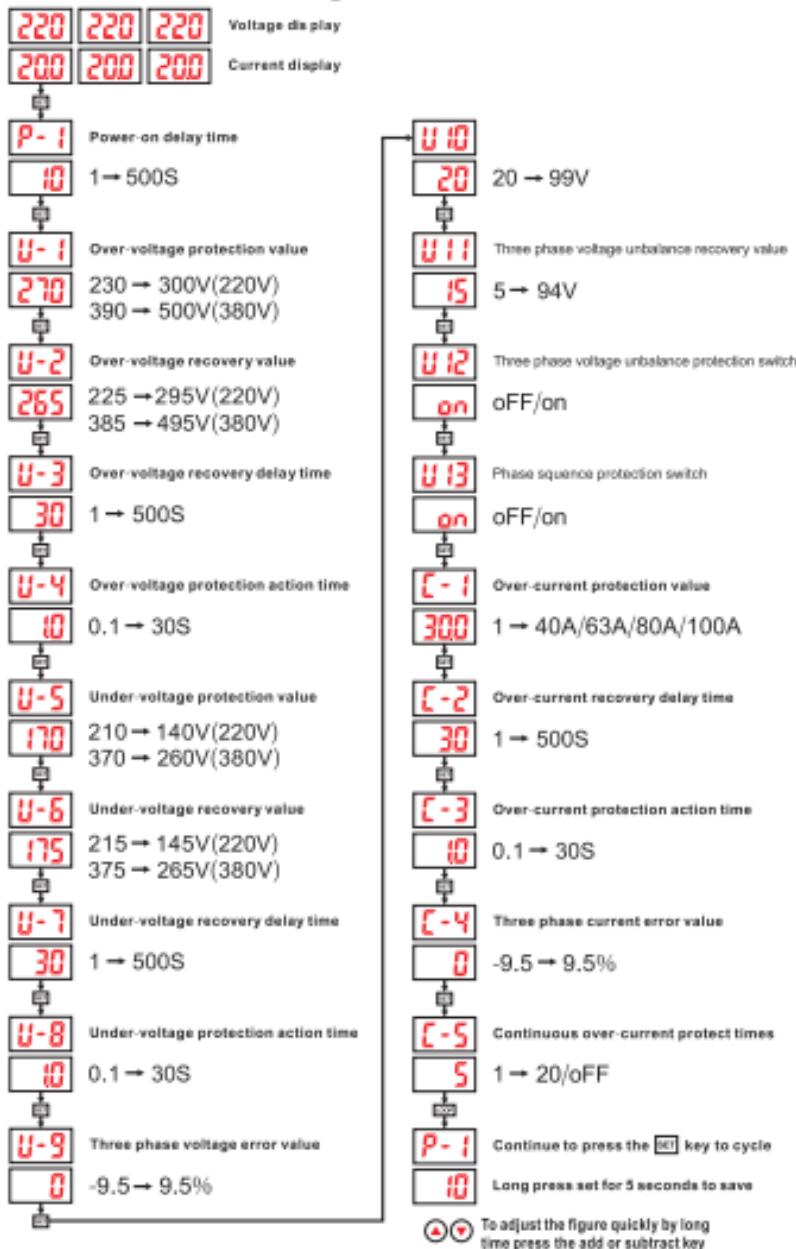


3.10 Default setting

Table 1

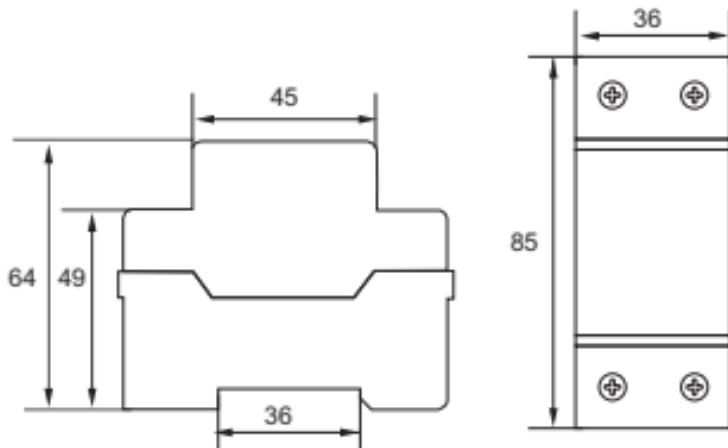
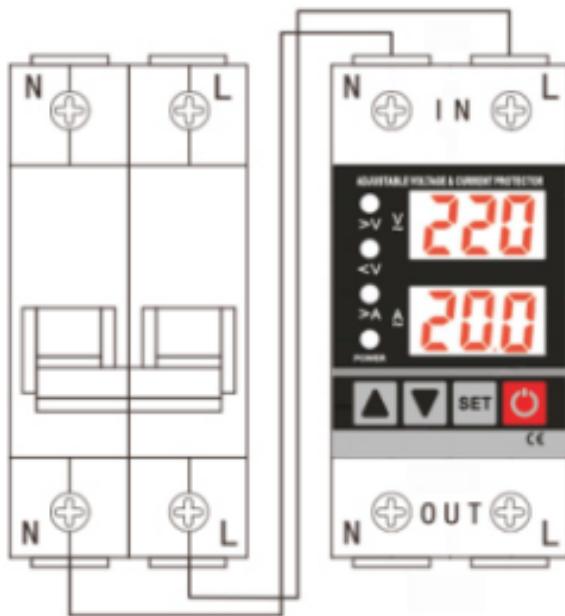
Technical parameter	Setting range	Step	Factory setting
Power-on delay time	1~500S	1S	10S
Over-voltage protection value	230~300V/390~500V	1V	270V/430V
Over-voltage recovery value	225~295V/385~495V	1V	265V/425V
Over-voltage recovery delay time	1~500S	1S	30S
Over-voltage protection action time	0.1~30S	0.1S	1S
Under-voltage protection value	210~140V/370~260V	1V	170V/330V
Under-voltage recovery value	215~145V/375~265V	1V	175V/335V
Under-voltage recovery delay time	1~500S	1S	30S
Under-voltage protection action time	0.1~30S	0.1S	1S
Three phase voltage error value	-9.5~9.5%	0.5%	0%
Three phase voltage unbalance value	20~99V	1V	20V
Three phase voltage unbalance recovery value	5~94V	1V	15V
Three phase voltage unbalance protection switch	oFF/on		on
Phase sequence protection switch	oFF/on		on
Over-current protection value	1~A/63A/80A/100A	0.1A	30A
Over-current recovery delay time	1~500S	1A	30S
Over-current protection action time	0.1~30S	0.1S	1S
Three phase current error value	-9.5~9.5%	0.5%	0%
Continuous over-current protect times	1~20/oFF	1	oFF

3.11 Function setting

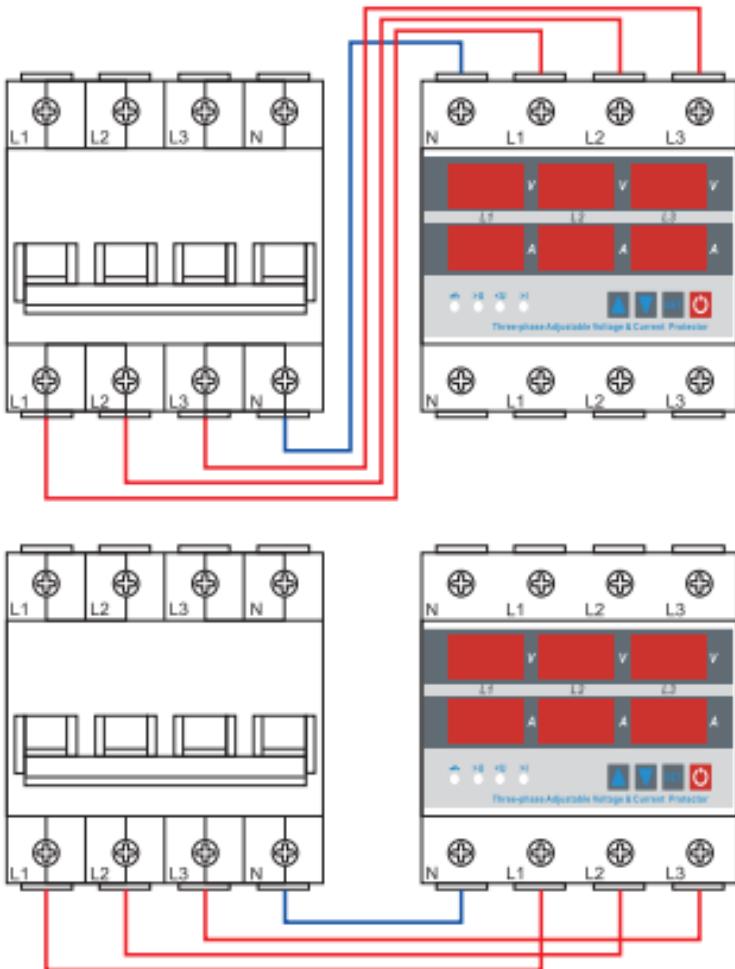


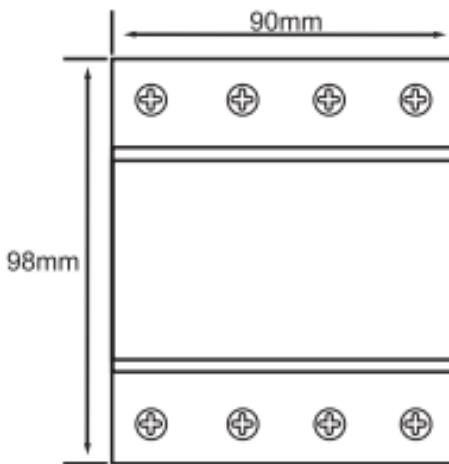
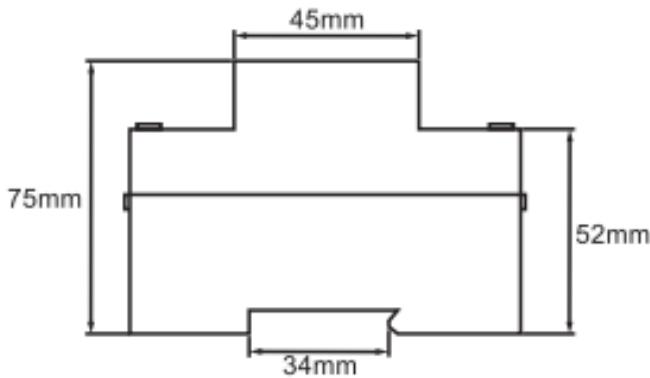
4.Wiring and shape dimensions

Single-phase



Three-phase







CERTIFICATE

Product Model: YC6As/YC6Vs/YC6VAs series

Standard : EN60947-5-1-2004

Inspector : CNC 001

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

CNC

YC6As/YC6Vs/YC6VAs series

CNC ELECTRIC

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