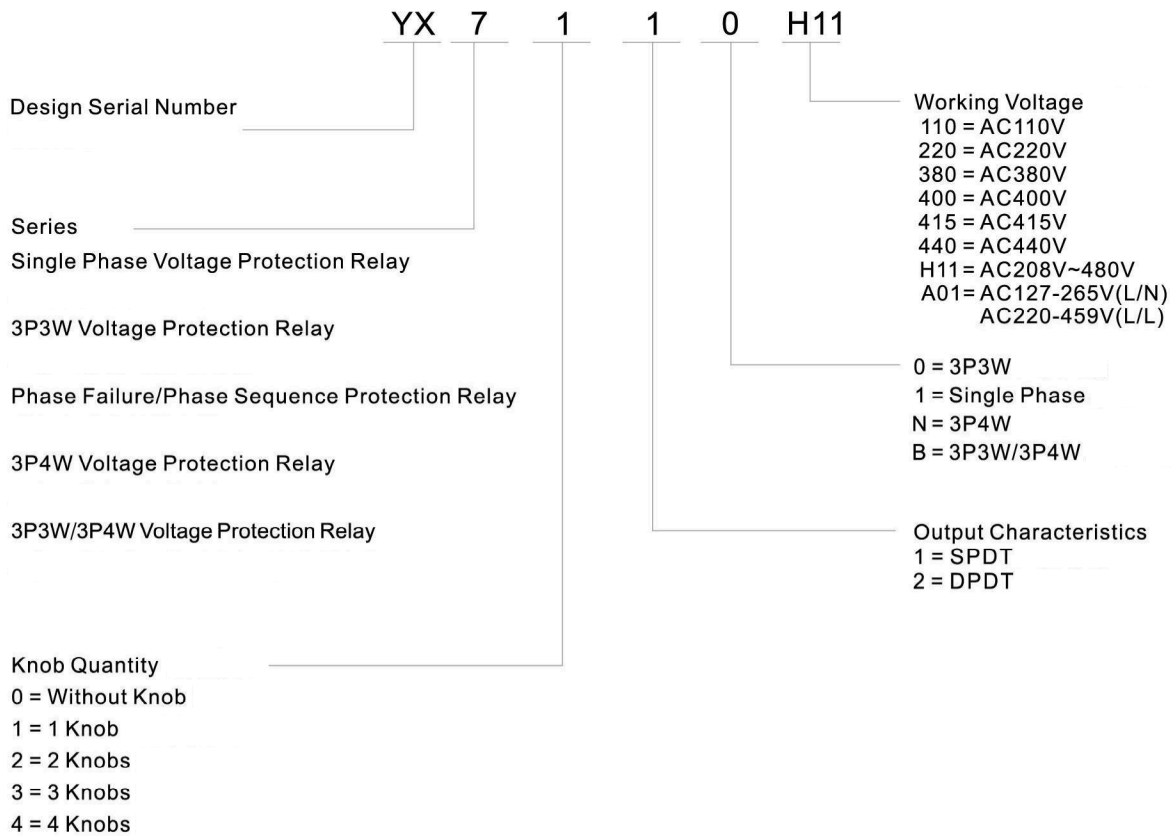
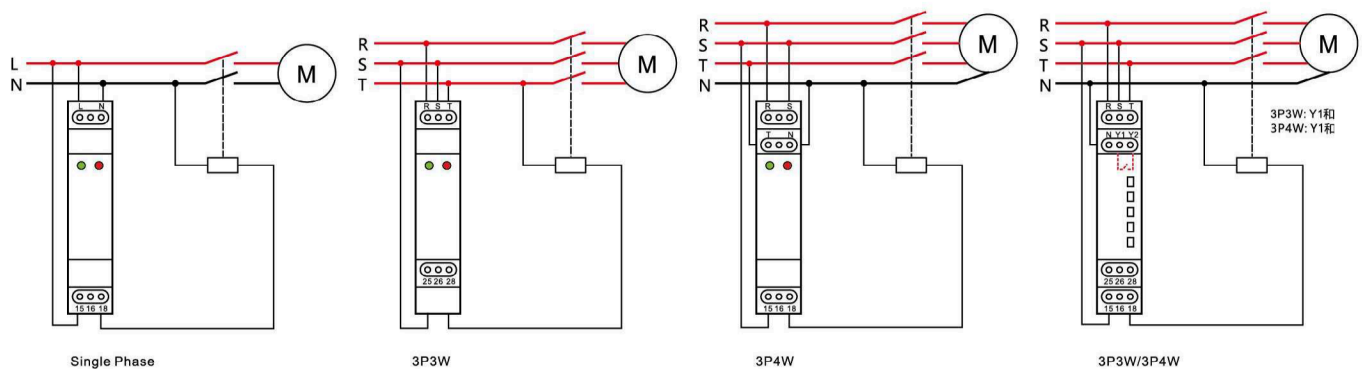


## YX7 Series Voltage Protection Relay

### Model Naming Rules

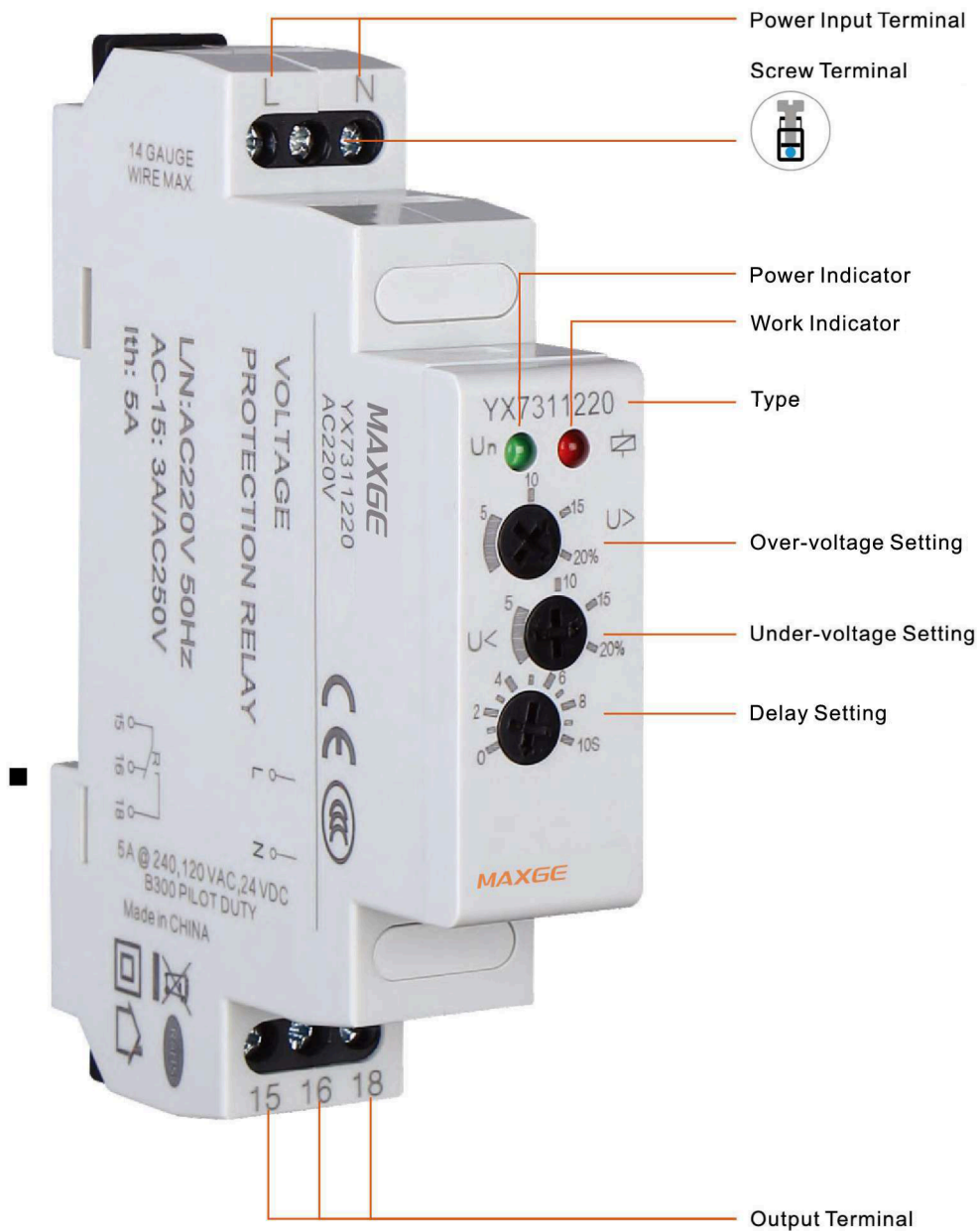


### Wiring Diagram



## YX7 Series Single Phase Voltage Protection Relay

Front view: function selector and regulators



## YX7 Series Single Phase Voltage Protection Relay

### Single Phase Voltage Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

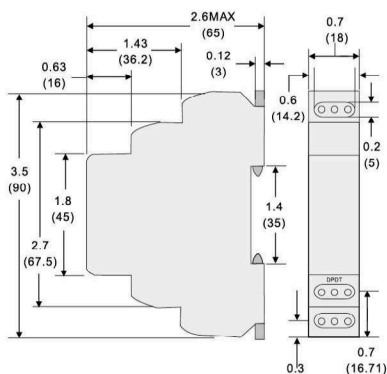
### YX7 Series



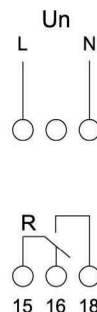
#### Technical Data

|                        | YX7011           | YX7211  | YX7311    |
|------------------------|------------------|---------|-----------|
| Monitoring Type        | Single Phase     |         |           |
| Output Characteristics | SPDT             |         |           |
| Over Voltage           | 15%              | 0 ~ 20% | 0 ~ 20%   |
| Under Voltage          | 15%              | 0 ~ 20% | 0 ~ 20%   |
| Time Delay             | 3S               | 3S      | 0.1 ~ 10S |
| Phase Sequence         | —                |         |           |
| Phase Failure          | —                |         |           |
| Working Voltage        | AC110V or 220V   |         |           |
| Frequency              | 50/60Hz          |         |           |
| Response Time of Relay | 0.5s             |         |           |
| Contact Rating         | 3A/250VAC COSφ=1 |         |           |
| Ambient Temperature    | -10°C ~ +55°C    |         |           |
| Voltage Error          | ±2% Max          |         |           |
| Temperature Error      | ±2% Max          |         |           |

#### Dimensions in (mm)

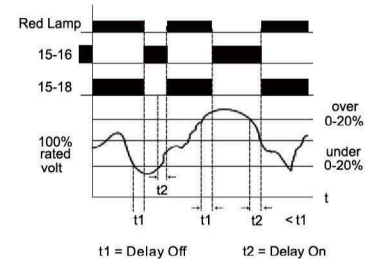


#### Wiring Diagrams



YX7011  
YX7211  
YX7311

#### Over & Under Voltage



## YX7Series Phase Failure/Phase Sequence Protection Relay

### Phase Failure Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.
2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

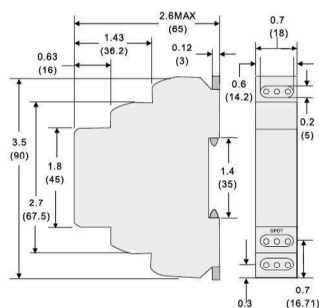
### YX7 Series



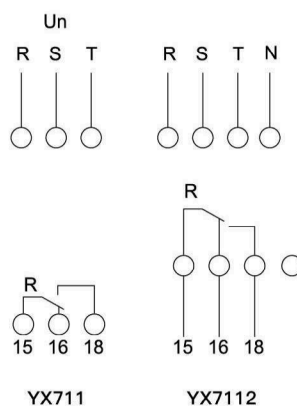
#### Technical Data

|                        | YX7111H11        | YX7112H11              |
|------------------------|------------------|------------------------|
| Monitoring Type        | 3P3W             | 3P4W                   |
| Output Characteristics | SPDT             |                        |
| Over Voltage           | —                |                        |
| Under Voltage          | —                |                        |
| Time Delay             | 3S               |                        |
| Phase Sequence         | —                |                        |
| Phase Failure          | √                |                        |
| Working Voltage        | AC208-480VAC     | AC220/380/400/415/440V |
| Frequency              | 50/60Hz          |                        |
| Response Time of Relay | 0.5S             |                        |
| Contact Rating         | 3A/250VAC COSφ=1 | 10A/250VAC COSφ=1      |
| Ambient Temperature    | -10°C ~ +55°C    |                        |
| Voltage Error          | ±2% Max          |                        |
| Temperature Error      | ±2% Max          |                        |

Dimensions: in (mm)

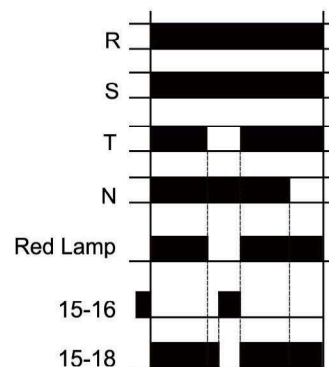


#### Wiring Diagrams



#### Phase Failure

#### Phase Sequence





## YX7Series Phase Failure/Phase Sequence Protection Relay

### Phase Sequence Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

### YX7 Series



CB CE RoHS CCC CQC

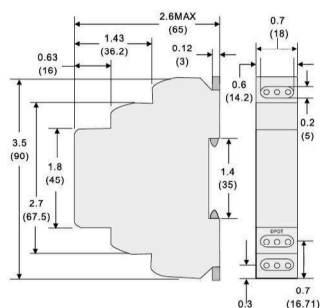


CB CE RoHS CCC CQC

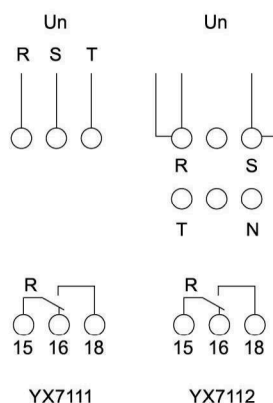
### Technical Data

|                        | YX7111H11 | YX7112H11        |
|------------------------|-----------|------------------|
| Monitoring Type        | 3P3W      | 3P4W             |
| Output Characteristics |           | SPDT             |
| Over Voltage           |           | —                |
| Under Voltage          |           | —                |
| Time Delay             |           | 3S               |
| Phase Sequence         |           | √                |
| Phase Failure          |           | √                |
| Working Voltage        |           | L/L: 208-480VAC  |
| Frequency              |           | 50/60Hz          |
| Response Time of Relay |           | 0.5S             |
| Contact Rating         |           | 5A/250VAC COSφ=1 |
| Ambient Temperature    |           | -10°C ~ +55°C    |
| Voltage Error          |           | ±2% Max          |
| Temperature Error      |           | ±2% Max          |

Dimensions: in ( mm )

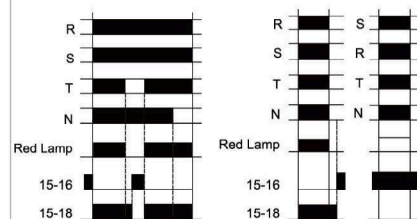


### Wiring Diagrams



### Phase Failure

### Phase Sequence



## YX7 Series 3P3W Voltage Protection Relay

### 3P3W Voltage Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

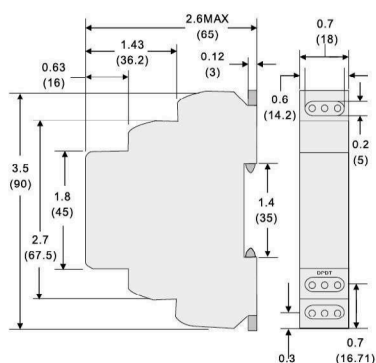
2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

### YX7 Series

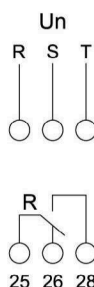


| Technical Data         | YX7010                     | YX7210  | YX7310    |
|------------------------|----------------------------|---------|-----------|
| Monitoring Type        | 3P3W                       |         |           |
| Output Characteristics | SPDT                       |         |           |
| Over Voltage           | 15%                        | 0 ~ 20% | 0 ~ 20%   |
| Under Voltage          | 15%                        | 0 ~ 20% | 0 ~ 20%   |
| Time Delay             | 3S                         | 3S      | 0.1 ~ 10S |
| Phase Sequence         | √                          |         |           |
| Phase Failure          | √                          |         |           |
| Working Voltage        | AC220V,380V,400V,415V,440V |         |           |
| Frequency              | 50/60Hz                    |         |           |
| Response Time of Relay | 0.5S                       |         |           |
| Contact Rating         | 3A/250VAC COSφ=1           |         |           |
| Ambient Temperature    | -10°C ~ +55°C              |         |           |
| Voltage Error          | ±2% Max                    |         |           |
| Temperature Error      | ±2% Max                    |         |           |

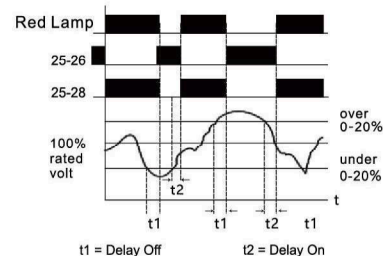
### Dimensions



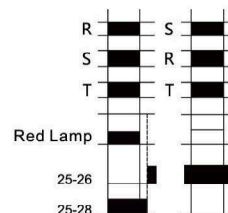
### Wiring Diagrams



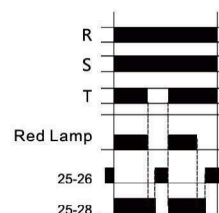
### Over & Under Voltage



### Phase Sequence



### Phase Failure



YX7 Series 3P3W Voltage Protection Relay

3P4W Voltage Protection Relay

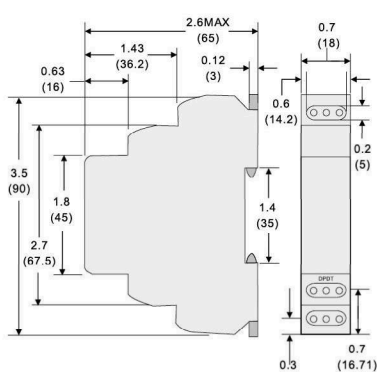
Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

- 1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.
- 2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

YX7 Series



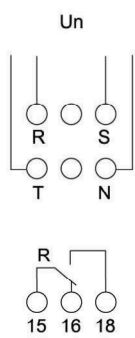
Dimensions in (mm)



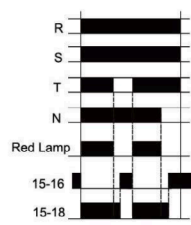
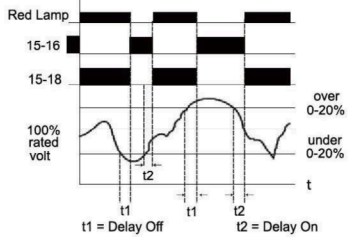
Technical Data YX741NA01

|                           |                                            |
|---------------------------|--------------------------------------------|
| Monitoring Type           | 3P4W                                       |
| Output Characteristics    | SPDT                                       |
| Over Voltage              | 0 ~ 20%                                    |
| Under Voltage             | 0 ~ 20%                                    |
| Time Delay                | 0.1 ~ 10S                                  |
| Phase Sequence            | √                                          |
| Phase Failure             | √                                          |
| Asymmetric Voltage        | 5% ~ 15%                                   |
| Working Voltage/Frequency | L/N: AC127-265V or L/L: AC220-459V 50/60Hz |
| Response Time of Relay    | 0.5S                                       |
| Contact Rating            | AC-15:3A/250VAC                            |
| Ambient Temperature       | -10°C ~ +55°C                              |
| Voltage Error             | ±2% Max                                    |
| Temperature Error         | ±2% Max                                    |

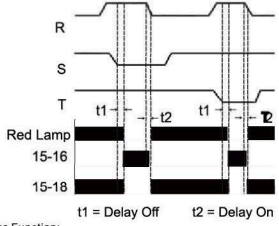
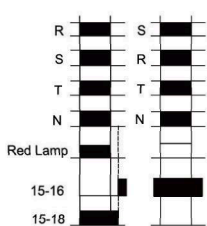
Wiring Diagrams



Over & Under Voltage Phase Failure



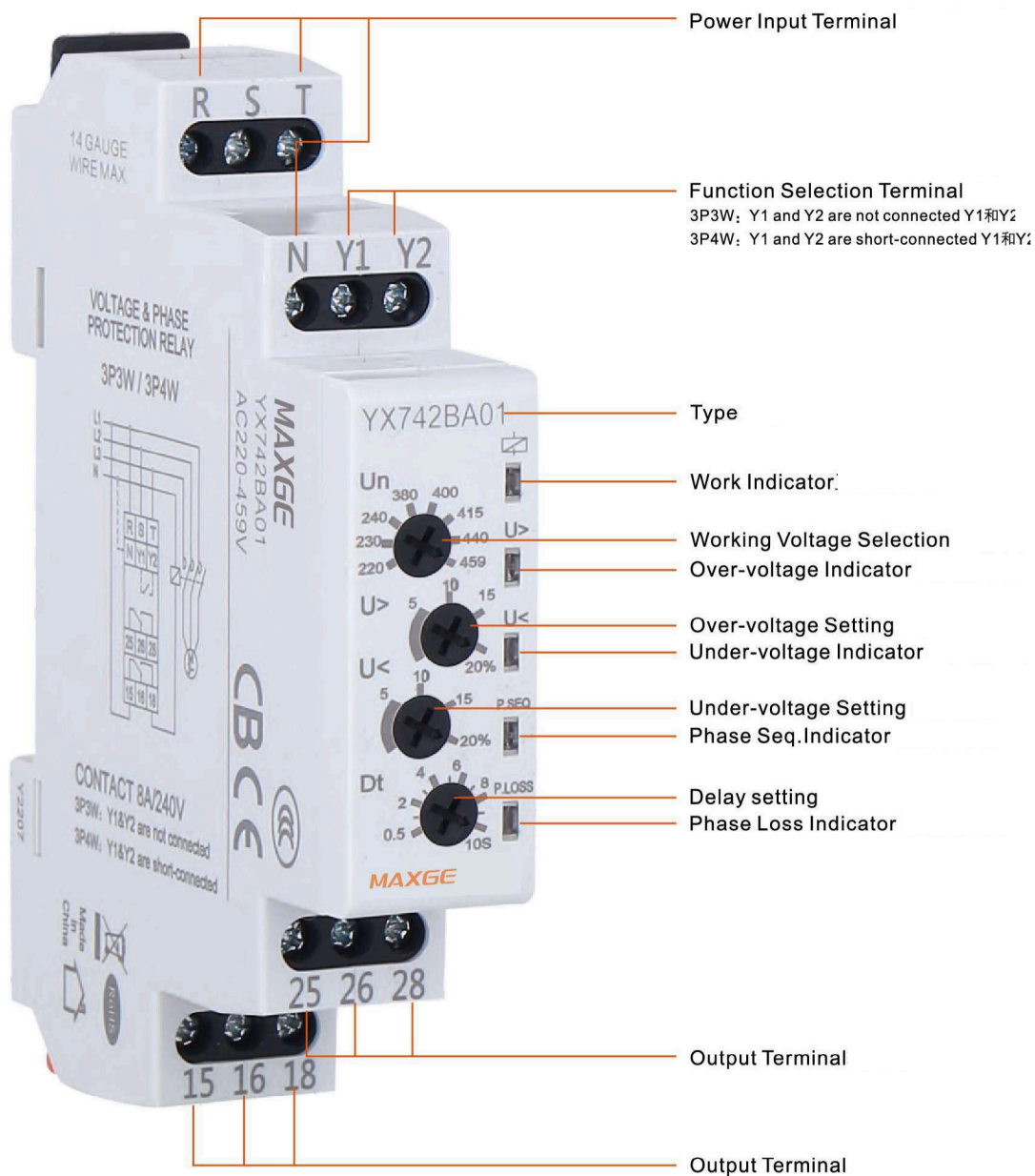
Phase Sequence Asymmetric Voltage



Asymmetric Voltage Function:  
(The highest voltage of phase R,S,T)-(The lowest voltage of phase R,S,T) / (The highest voltage of phase R,S,T) % limit 5% - 15%  
Relay 15-18 Off Red Lamp Off

## YX7 Series 3P3W/3P4W Voltage Protection Relay

Front view: function selector and regulators





## YX7 Series 3P3W/3P4W Voltage Protection Relay

### 3P3W/3P4W Voltage Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

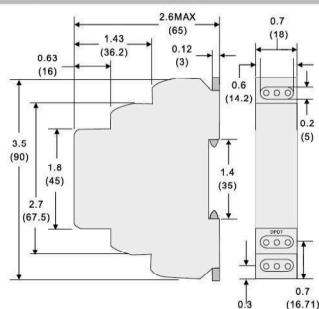
2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

### YX7 Series

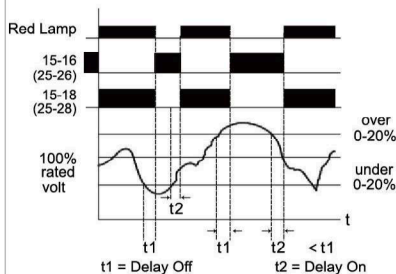


| Technical Data            | YX702B                                                           | YX722B  | YX732B    |
|---------------------------|------------------------------------------------------------------|---------|-----------|
| Monitoring Type           | 3P3W/3P4W                                                        |         |           |
| Output Characteristics    | DPDT                                                             |         |           |
| Over Voltage              | 15%                                                              | 0 ~ 20% | 0 ~ 20%   |
| Under Voltage             | 15%                                                              | 0 ~ 20% | 0 ~ 20%   |
| Time Delay                | 3S                                                               | 3S      | 0.1 ~ 10S |
| Phase Sequence            | √                                                                |         |           |
| Phase Failure             | √                                                                |         |           |
| Asymmetric Voltage        | 15%                                                              |         |           |
| Working Voltage/Frequency | L/N:AC127/220/230/240/254V or L/L:AC220/380/400/415/440V 50/60Hz |         |           |
| Response Time of Relay    | 0.5S                                                             |         |           |
| Contact Rating            | 8A/250VAC COSφ=1                                                 |         |           |
| Ambient Temperature       | -10°C ~ +55°C                                                    |         |           |
| Voltage Error             | ±2% Max                                                          |         |           |
| Temperature Error         | ±2% Max                                                          |         |           |

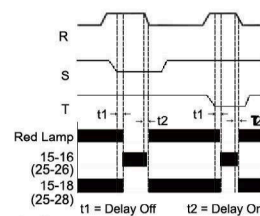
Dimensions: in (mm)



### Over & Under Voltage

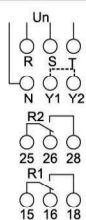


### Asymmetric Voltage



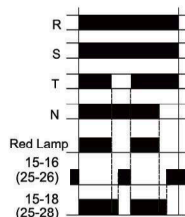
Asymmetric Voltage Function:  
(The highest voltage of phase R,S,T) (The lowest voltage of phase R,S,T) % Asymmetric voltage  
Relay 15-18 Off Red Lamp Off

### Wiring Diagrams

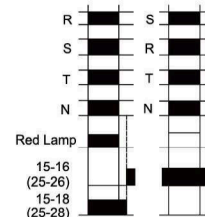


3P3W = Y1-Y2  
3P4W = Y1-Y2

### Phase Failure



### Phase Sequence





## YX7 Series 3P3W/3P4W Voltage Protection Relay

### 3P3W/3P4W Voltage Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

### YX7 Series



CB CE RoHS CCC CQC

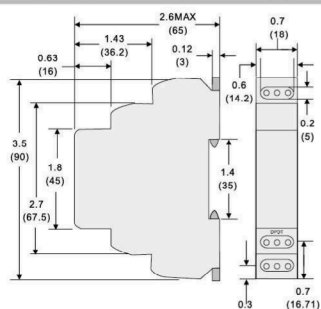


CB CE RoHS CCC CQC

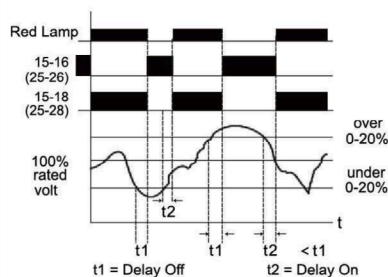
#### Technical Data

|                           | YX712BA01                        | YX742BA01 |
|---------------------------|----------------------------------|-----------|
| Monitoring Type           | 3P3W/3P4W                        |           |
| Output Characteristics    | DPDT                             |           |
| Over Voltage              | 15%                              | 0 ~ 20%   |
| Under Voltage             | 15%                              | 0 ~ 20%   |
| Time Delay                | 3S                               | 0.1 ~ 10S |
| Phase Sequence            | ✓                                |           |
| Phase Failure             | ✓                                |           |
| Asymmetric Voltage        | 15%                              | 5-15%     |
| Working Voltage/Frequency | L/N:AC127-265V or L/L:AC220-459V | 50/60Hz   |
| Response Time of Relay    | 0.5S                             |           |
| Contact Rating            | 8A/250VAC COSφ=1                 |           |
| Ambient Temperature       | -10°C ~ +55°C                    |           |
| Voltage Error             | ±2% Max                          |           |
| Temperature Error         | ±2% Max                          |           |

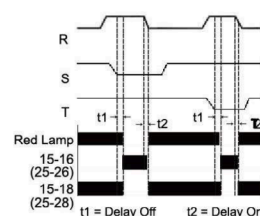
#### Dimensions: in (mm)



#### Over & Under Voltage

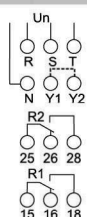


#### Asymmetric Voltage



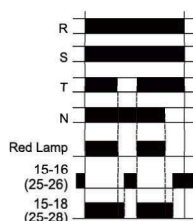
Asymmetric Voltage Function:  
(The highest voltage of phase R,S,T)-(The lowest voltage of phase R,S,T)  
(The highest voltage of phase R,S,T)  
Relay 15-18 Off Red Lamp Off

#### Wiring Diagrams

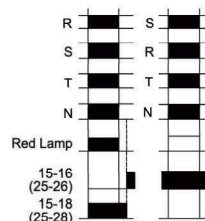


3P3W = Y1-Y2  
3P4W = Y1-Y2

#### Phase Failure



#### Phase Sequence



## YX7 Series Three phase Voltage Protection Relay

### Three-phase Voltage Protection Relay

Voltage protection relay uses a high-speed and low-power processor as its core. When the power supply line has over-voltage, under-voltage, or phase failure, phase reverse, the relay will cut off the circuit quickly and safely to avoid accidents caused by abnormal voltage being sent to the terminal appliance. When the voltage returns to the normal value, the relay will turn on the circuit automatically to ensure the normal operation of the terminal electrical appliances under unattended conditions.

1. Cut off the line when Over & Under Voltage occurs, and automatically reset and connect the line after returning to normal without manual operation.

2. When the line appears transient or transient Over & Under Voltage, the protector does not malfunction.

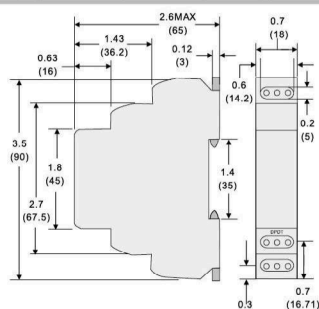
### YX7 Series



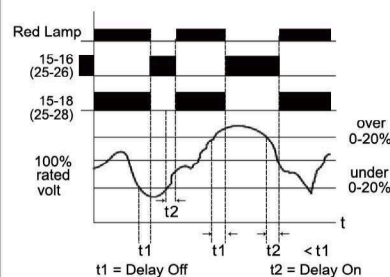
#### Technical Data

|                           | YX7620A01                        | YX762NA01        |
|---------------------------|----------------------------------|------------------|
| Monitoring Type           | 3P3W                             | 3P4W             |
| Output Characteristics    |                                  | DPDT             |
| Over Voltage              |                                  | 0 ~ 20%          |
| Under Voltage             |                                  | 0 ~ 20%          |
| Time Delay                |                                  | 0.1 ~ 10S        |
| Reset Time                |                                  | 0.1 ~ 10S        |
| Phase Sequence            |                                  | √                |
| Phase Failure             |                                  | √                |
| Asymmetric Voltage        |                                  | 5-15%            |
| Working Voltage/Frequency | L/N:127-265VAC or L/L:220-459VAC | 50/60Hz          |
| Response Time of Relay    |                                  | 0.5S             |
| Contact Rating            |                                  | 8A/250VAC COSφ=1 |
| Ambient Temperature       |                                  | -10°C ~ +55°C    |
| Voltage Error             |                                  | ±2% Max          |
| Temperature Error         |                                  | ±2% Max          |

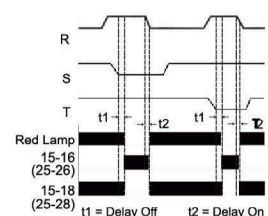
#### Dimensions: in (mm)



#### Over & Under Voltage

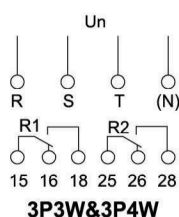


#### Asymmetric Voltage

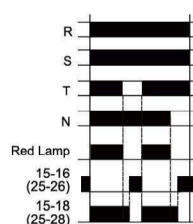


Asymmetric Voltage Function:  
 (The highest voltage of phase R,S,T) - (The lowest voltage of phase R,S,T) / (The highest voltage of phase R,S,T) % ≥ Asymmetric voltage limit 5% - 15%  
 Relay 15-18 Off Red Lamp Off

#### Wiring Diagrams



#### Phase Failure



#### Phase Sequence

