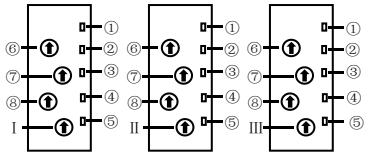
YOSHINE
Wenzhou Derrek Elec.Co.,Ltd

CB CE

# 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.

## MODEL & EXPLANATION



YX741TDA01 YX741TRA01 YX741TAA01
YX741FDA01 YX741FRA01 YX741FAA01

① Work Indicator
② Over & Under Voltage Indicator
③ Phase Sequence Fault Indicator
④ Phase Failure Indicator
⑤ Asy Indicator
⑥ Voltage Setting
⑦ Over Voltage Setting
⑧ Under Voltage Setting
I Time for Action Delay Setting
II Time for Reset Delay Setting
III Asy Setting

*** Fault Indicator**

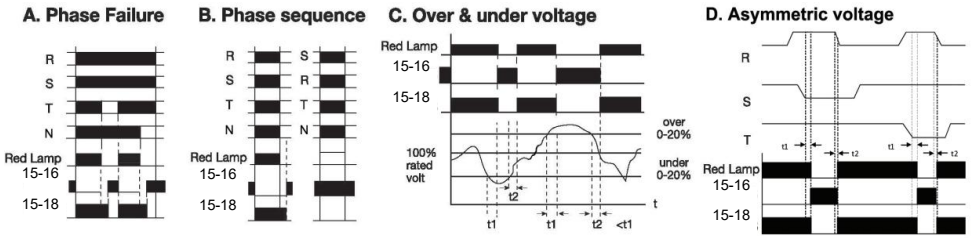
**Over Voltage :** ② Red On
**Under Voltage:** ② Yellow On
**Phase Seq. :** ③ On
**Phase Loss :** ④ On
**Asy :** ⑤ On

| | Type | O.V. | U.V. | D.Time | R.Time | P. Seq. | P. Loss | Asy |
|---|---|---|---|---|---|---|---|---|
| 3P3W | YX741TDA01 | 0-30% | 0-30% | 0.1-10S | 0.2S | √ | √ | 15% |
| | YX741TRA01 | | | 2S | 0.1-10S | | | 15% |
| | YX741TAA01 | | | 2S | 0.2S | | | 5-40% |
| 3P4W | YX741FDA01 | | | 0.1-10S | 0.2S | | | 15% |
| | YX741FRA01 | | | 2S | 0.1-10S | | | 15% |
| | YX741FAA01 | | | 2S | 0.2S | | | 5-40% |

***：Operating voltage：  A01: 127V-265VAC L/N (3P4W)  220-459VAC L/L (3P3W)

| ITEM NO. | 3P3W | 3P4W |
|---|---|---|
| RATED VOLTAGE | AC220-459V (L/L) | AC127-265V (L/N) |
| FREQUENCY | 50/60Hz | |
| RESPONSE TIME OF RELAY | DELAY ON : 0.1-10S DELAY OFF : 0.1-10S ASY SETING: 5-40% | |
| CONTACT RATING | 8A/250VAC SPDT | |
| RESET TIME | 0.2 Sec Max | |
| AMBIENT TEMP | -10℃~+55℃ | |
| SETTING ERROR | ±10% MAX | |
| REPEAT ERROR | ± 2% MAX | |

## OPERATION CHART (3P3W 3P4W)



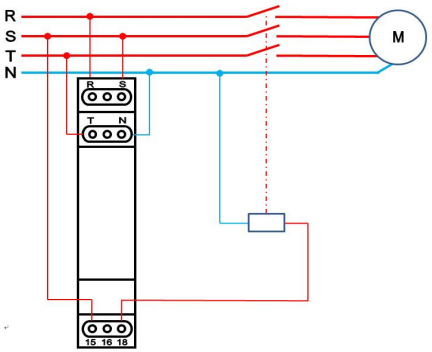

★ Asymmetric Voltage Function:

$$\frac{\text{(The highest voltage of phase a,b,c,)-(The lowest voltage of phase a,b,c)}}{\text{(The highest voltage of phase a,b,c)}} \% \geqslant$$

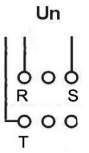
Asymmetric voltage limit **5%-40%**

t1=0.1-10S delay off  t2=0.1-10S delay

## WIRING DIAGRAMS



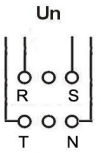

Three-phase Three-wire





**YX741TDA01**
**YX741TRA01**
**YX741TAA01**

Three-phase Four-wire





**YX741FDA01**
**YX741FRA01**
**YX741FAA01**

If you experience problems, do not immediately return the unit to the store.

Email the Timeguard Customer Helpline: SUE@yaoxuele.com

or call the helpdesk on 0086-577-57570388

Qualified Customer Support Coordinators will be online to assist in resolving your query.

YOSHINE
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