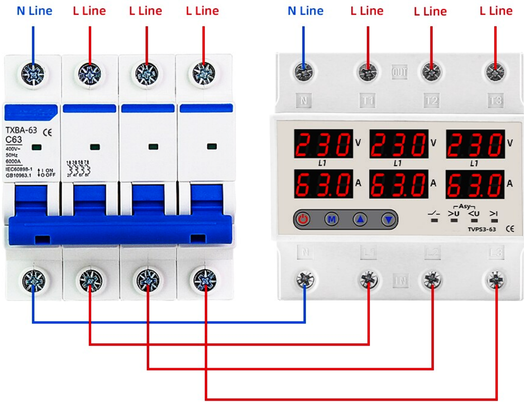
# Wiring Diagram

## With N Display 230VAC

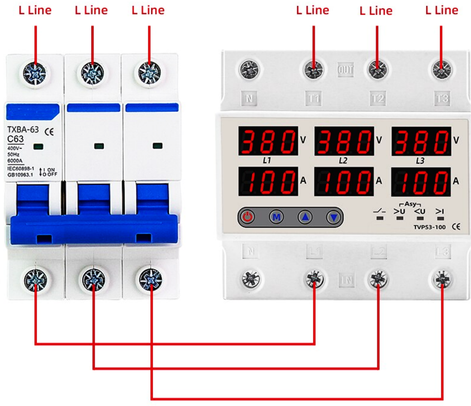



# 230V With N Wire Operate Range

| Technical parameter | Setting range | Factory setting | Step | Function description |
|---|---|---|---|---|
| Power-on delay time | 1s-500s | 10s | 1s | After external power cut,the time needed for power-on when power recovery. |
| Over-voltage protection value | 230V-300V | 270V | 1V | When the voltage is higher than the set value, the protector will cut off the line. |
| Over-voltage recovery value | 225V-295V | 265V | 1V | When the voltage is lower than the set value, the protector will automatically reset, and the set value must be less than the over-voltage protection value by more than 5V. |
| Over-voltage recovery delay time | 1s-500s | 30s | 1s | After voltage recovery,the time needed for automatic reset. |
| Over-voltage protection action time | 0.1s-30s | 1.0s | 0.1s | When the voltage is higher than the set value,the time needed for protection action. |
| Under-voltage protection value | 140V-210V | 170V | 1V | When the voltage is lower the set value, the protector will cut off the line. |
| Under-voltage recovery value | 145V-215V | 175V | 1V | When the voltage is higher than the set value, the protector will automatically reset, and the set value must be more than the under-voltage protection value by more than 5V. |
| Under-voltage recovery delay time | 1s-500s | 30s | 1s | After voltage recovery,the time needed for automatic reset. |
| Under-voltage protection action time | 0.1s-30s | 1.0s | 0.1s | When the voltage is lower than the set value,the time needed for protection action. |
| Three phase voltage error value | -9.5%-9.5% | 0 | | Correct the three phase voltage error. |
| Three phase voltage unbalance value | 20V-99V | 20V | 1V | When the error among the three phase voltage is bigger than the set value,the protector will cut off the line. |
| Three phase voltage unbalance recovery value | 15V-94V | 15V | 1V | When three phase voltage unbalance value is lower than the set value,the protector will automatically reset. |
| Phase sequence protection switch | OFF/ON | ON | | Switch on or on the phase sequence protection function. |
| Over-current protection value | 1A-63A<br>1A-100A | 30A | 1A | When the current is higher than the set value, the protector will cut off the line. |
| Over-current recovery delay time | 1s-500s | 30s | 1s | After current recovery,the time needed for automatic reset. |
| Over-current protection action time | 0.1s-30s | 1.0s | 0.1s | When the current is higher than the set value,the time needed for protection action. |
| Three phase current error value | -9.5%-9.5% | 0 | | Correct the three phase current error. |
| Times of continuous over current protection | 0-20 | OFF | 1 | When the times of continuous over-current protection exceeds the set value,the protector will cut off the line,then it needs to be opened manually. |
| Phase-loss protection | ON | | | One of the three-phase voltages is losing,the protector will cut off the line. |

# Wiring Diagram

## Without N Display 380VAC




# 380V Without N Wire Operate Range

| Technical parameter | setting range | Factory setting | Step | Function description |
|---|---|---|---|---|
| Power-on delay time | 1S-500S | 10S | 1S | After external power cut,the time needed for power-on when power recovery. |
| Over-voltage protection value | 395V-520V | 460V | 1V | When the voltage is higher than the set value, the protector will cut off the line. |
| Over-voltage recovery value | 390V-515V | 455V | 1V | When the voltage is lower than the set value, the protector will automatically reset, and the set value must be less than the over-voltage protection value by more than 5V. |
| Over-voltage recovery delay time | 1S-500S | 30S | 1S | After voltage recovery,the time needed for automatic reset. |
| Over-voltage protection action time | 0.1S-30S | 1.0S | 0.1S | When the voltage is higher than the set value,the time needed for protection action. |
| Under-voltage protection value | 240V-365V | 300V | 1V | When the voltage is lower the set value, the protector will cut off the line. |
| Under-voltage recovery value | 245V-370V | 305V | 1V | When the voltage is higher than the set value, the protector will automatically reset, and the set value must be more than the under-voltage protection value by more than 5V. |
| Under-voltage recovery delay time | 1S-500S | 30S | 1S | After voltage recovery,the time needed for automatic reset. |
| Under-voltage protection action time | 0.1S-30S | 1.0S | 0.1S | When the voltage is lower than the set value,the time needed for protection action. |
| Three phase voltage error value | -9.5%-9.5% | 0 | | Correct the three phase voltage error. |
| Three phase voltage unbalance value | 20V-99V | 40V | 1V | When the error among the three phase voltage is bigger than the set value,the protector will cut off the line. |
| Three phase voltage unbalance recovery value | 15V-94V | 35V | 1V | When the error among the three phase voltage is lower than the set value, the protector will automatically reset, and the set value must be less than the three phase voltage unbalance value by more than 5V. |
| Three phase voltage unbalance protection switch | OFF/ON | OFF | | Switch on or off the Three phase voltage unbalance protection function. |
| Over-current protection value | 1A-63A-OFF<br>1A-100A-OFF | 30A | 1A | When the current is higher than the set value, the protector will cut off the line.When setting OFF,the protector will turn off over-current protection function. |
| Over-current recovery delay tome | 1S-500S | 30S | 1S | After current recovery,the time needed for automatic reset. |
| Over-current protection action time | 0.1S-30S | 1.0S | 0.1S | When the current is higher than the set value,the time needed for protection action. |
| Three phase current error value | -9.5%-9.5% | 0 | | Correct the three phase current error. |
| Times of continuous over current protection | 0-20-OFF | OFF | 1 | When The times of continuous over-current protection exceeds the set value,the protector will cut off the line,then it needs to be opened |
| Phase-loss protection | ON | | | One of the three-phase voltages is losing,the protector will cut off the line. |