

Three Phase Voltage and current Protector

Synchronous (SYN): Three phase Relay Open Close at same time.

Asynchronous (ASY): Three Phase Relay Work Seperately.



PRODUCT FEATURES



OVER-VOLTAGE
PROTECTION



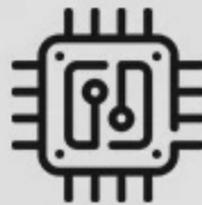
UNDER-VOLTAGE
PROTECTION



OVER-CURRENT
PROTECTION



VOLTAGE
BALANCE



AUTOMATIC
RESET



ACTION TIME
ADJUSTABLE



RESET TIME
ADJUSTABLE



REAL TIME DISPLAY OF
CURRENT AND VOLTAGE



FLAME RETARDANT
SHELL

DUAL MODES

ASYNCHRONOUS

Asynchronous mode

TOVPD3-63VAS can be used as three individual single phase protectors

SYNCHRONOUS

Synchronous mode

TOVPD3-63VAS can be used as three phase protector



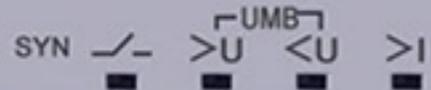
REAL TIME DISPLAY OF VOLTAGE AND CURRENT

You can manually calibrate Voltage and current if they are not correct



PANEL INTRODUCTION





Synchronous Mode: Pls check the Signal as Belows



Manual Switch



Output Indication



Menu Key



Over-Voltage Indication



Adjustment Key +



Under-Voltage Indication



Adjustment Key -



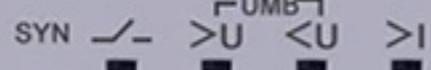
Over-Current Indication



Asymmetry Fault Indication



Asymmetry Fault Indication



Asynchronous Mode: Pls check the Signal as Belows



Manual Switch

L1: L1 Phase is Open when L1 Signal Light



Menu Key

L2: L2 Phase is Open when L2 Signal Light



Adjustment Key +

L3: L3 Phase is Open when L3 Signal Light



Adjustment Key -

Over / Under Voltage Protect

Phase Sequence Protect

Voltage Umbalance Protect
(Asymmetry Protect)

when it is ASY mode

No phase Sequence and Voltage Umbalance Protect



OVER CURRENT PROTECT NOT AFRAID OF HIGH CURRENT IMPACT

Built-in 63A 100A Magnetic Latching Relay,
High Current Impact will Not Burn

Over-current Protection
Times Adjustable

Over-Current
Adjustable

Action/Reset
Delay Time Adjustable



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 cutoff 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 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 cutoff 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.
Two work Mode	ASY/SYN	SYN		

WIRING DIAGRAM

With N Display 230VAC



PRODUCT DIMENSION



63A



