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Solution to Electric



TDP2-1
Single Phase Modular
Digital Voltage & Current Protector
Protector digital monofásico de
tensión e intensidad

 Warning

This product must be installed, connected, used and maintained by qualified personnel in accordance with the manual.

In appropriate adjusted voltage value or current value might cause the protector not to work properly.

Neutral line of this product is in "by pass" state and it is not isolated from the circuit, upstream isolating switch or circuit breaker must be switched off before circuit maintenance.

 Attention

When the over current protection happens, user is strongly recommended to reduce the load in order to avoid the over current protection happens often to damage the protector.

 Advertencia

Este producto debe ser instalado, conectado, utilizado y mantenido por personal cualificado de acuerdo con el manual.

Un valor de tensión o de corriente ajustado inadecuadamente puede hacer que el protector no funcione correctamente.

La línea neutra de este producto está en estado "by pass" y no está aislada del circuito, el interruptor seccionador o disyuntor aguas arriba debe desconectarse antes de realizar mantenimiento del circuito.

 Atención

Cuando se activa la protección contra sobrecorriente, se recomienda al usuario que reduzca la carga para evitar que la protección contra sobrecorriente se active con frecuencia y dañe el protector.

Application

TDP2-1 Voltage Protector, a new generation of home appliance protectors, is suitable for houses, hotels, buildings, school dormitories, etc, to protect the electrical safety of appliances and other loads, to prevent damage to the load caused by too high or too low mains power.

Aplicacion

TDP2-1 Voltage Protector, una nueva generación de protectores de electrodomésticos, es adecuado para casas, hoteles, edificios, dormitorios escolares, etc., para proteger la seguridad eléctrica de los electrodomésticos y otras cargas, y para prevenir daños en la carga causados por una alimentación de red demasiado alta o demasiado baja.

Technical Parameters

Rated supply voltage	AC 220V
Operation voltage range	AC 80V~400V(single phase)
Electric current(>A)setting range	1~40/63A
Over voltage(>U)setting range	230~300V
Under voltage(<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 ~600S
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 ⁶
Protection degree	IP 20
Pollution degree	3
Altitude	≤2000m
Operatintg temperature	-50°C~55°C
Humidity	≤50% at 40°C(without condensation)
Storage temperature	-30°C~70°C

Parámetros Técnicos

Tensión nominal de alimentación	AC 220V
Rango de tensión de funcionamiento	AC 80V~400V(monofásico)
Margen de ajuste de la corriente eléctrica(>A)	1~40/63A
Margen de ajuste de la sobretensión(>U)	230~300V
Margen de ajuste de la subtensión(<U)	210~140V
Corriente nominal	40/63A(sujeto a la etiqueta del producto)
Retardo de disparo >U y <U	0.1-30S
Retardo de rearme/arranque	1 ~600S
Precisión de medida de tensión	2%(No superior al 2% de la gama total)
Tensión nominal de aislamiento	400V
Contacto de salida	1NO
Vida eléctrica	10 ⁵
Vida mecánica	10 ⁶
Grado de protección	IP 20
Grado de contaminación	3
Altitud	≤2000m
Temperatura de funcionamiento	-50°C~55°C
Humedad	≤50% at 40°C(sin condensación)
Temperatura de almacenamiento	-30°C~70°C

Operation

Technical parameter	Setting range	Step	Factory setting
Power on delay time	1~300S	1S	5S
Over voltage protection value	230~ 300V	1V	280V
Under voltage protection value	210~140V	1V	160V
Voltage protection action time	0.1~30S	0.1S	1S
Over current protection value	1~40/63A	0.1A	40/63A
Over current protection action time	0.1~30S	0.1S	1S
Continuous overcurrent protect times	A01~A20/OFF	A01	OFF
Recovery delay time	1~600S	1S	5S

Current specification(A)	15	25	32	40	50	63
Rated operating current(In,A)	15	25	32	40	50	63
Maximum operating current I _{max} (A,within 10min)	25	30	40	50	60	80
Max. power of load(kW)	3.6	5.5	7	8.8	11	13.9

Overvoltage

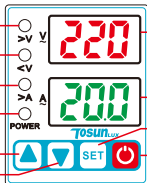
Undervoltage

Overcurrent

Function/delayed

Increase

Decrease



Voltage display

Current Display

Menu setting

ON/OFF

Operación

Parámetros técnicos	Rango de ajuste	Paso	Ajustes de fáb.
Tiempo de retardo al encendido	1~300S	1S	5S
Valor de protección contra sobretensión	230~ 300V	1V	280V
Valor de protección de subtensión	210~140V	1V	160V
Tiempo de acción de la protección de tensión	0.1~30S	0.1S	1S
Valor de protección de sobreintensidad	1~40/63A	0.1A	40/63A
Tiempo de actuación de la protección de sobreintensidad	0.1~30S	0.1S	1S
Tiempos de protección continua de sobreintensidad	A01~A20/OFF	A01	OFF
Tiempo de retardo de recuperación	1~600S	1S	5S

Especificaciones(A)	15	25	32	40	50	63
Corriente nominal de funcionamiento(In,A)	15	25	32	40	50	63
Corriente máxima de funcionamiento I _{max} (A, en 10min)	25	30	40	50	60	80
Potencia máxima de carga(kW)	3.6	5.5	7	8.8	11	13.9

Sobretensión

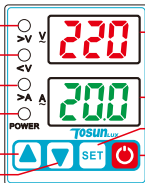
Subtensión

Sobrecorriente

Función/retraso

Aumentar

Disminución



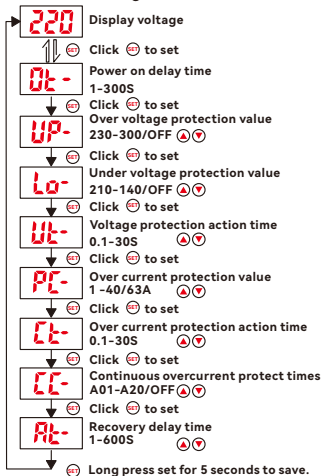
Indicación de tensión

Pantalla actual

Configuración del menú

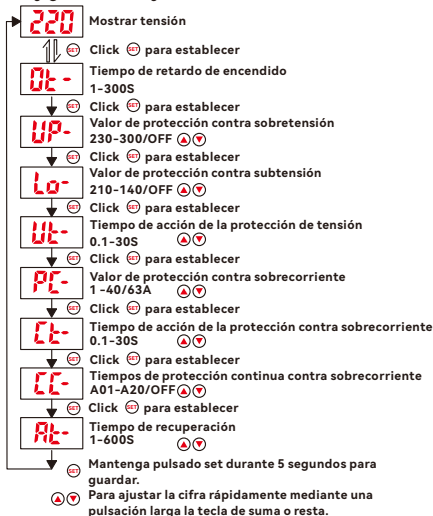
ON/OFF

Function setting

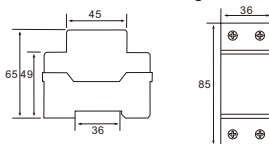


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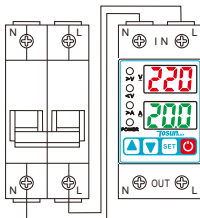
Configuración de función



Overall Dimension Dimensión general



Wiring diagram Esquema eléctrico



Manufactured under supervision of
 TOSUN (Germany) GmbH
 Made in China



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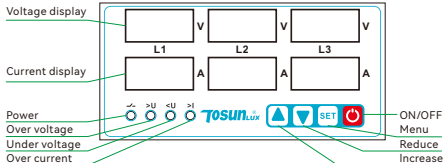
TDP2-3 Three Phase Modular Digital Voltage & Current Protector

Warning

- This product must be installed, connected, used and maintained by qualified personnel in accordance with the manual.
- Before wiring, ensure that the input power supply is completely disconnected.
- The cable can be connected only after the breaker is installed.

Application

TDP2-3 three phase modular digital voltage and current protector can disconnect the circuit to protect the appliances automatically in case abnormal situation happens to power supply. When the power supply recovers, the protector switches on the circuit automatically after 1-500 seconds delay. Indicators on the panel show the working condition of the protector.



Technical Parameters

Rated supply voltage	AC 220V	AC 380V
Operation voltage range	AC 80~400V (three phase)	AC140~700V (three phase)
Electric current(>A) setting range	1~40A/63A /80A/100A	1~40A/63A /80A/100A
Over voltage(>U) setting range	230~300V	390~500v
Under voltage(<U) setting range	210~140V	370~260V
Rated current	40A/63A/80A/100A	40A/63A/80A/100A
>Uand <U trip delay	0.1~30s	0.1~30S

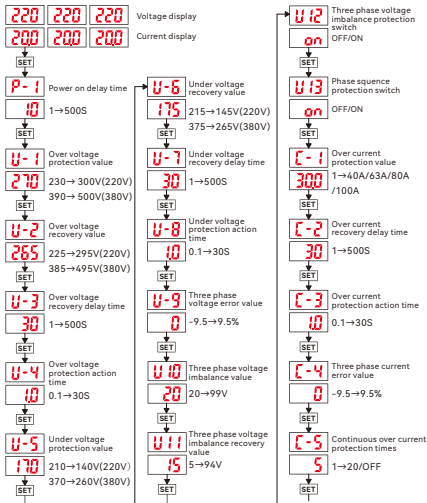
Reset/start delay	1~500S	1~500S
Voltage measurement accuracy	2%	2%
Rated insulation voltage	400V	700V
Output contact	3NO	3NO
Electrical life(times)	10^5	10^5
Mechanical life(times)	10^6	10^6
Protection degree	IP20	IP20
Pollution degree	3	3
Altitude	$\leq 2000\text{m}$	$\leq 2000\text{m}$
Operating temperature	$-50^{\circ}\text{C}\sim 55^{\circ}\text{C}$	$-50^{\circ}\text{C}\sim 55^{\circ}\text{C}$
Humidity	$\leq 50\%$ at 40°C (without condensation)	$\leq 50\%$ at 40°C (without condensation)
Storage temperature	$-30^{\circ}\text{C}\sim 70^{\circ}\text{C}$	$-30^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Current specification	40A	63A	80A	100A	40A	63A	80A	100A
Rated operating current (In,A)	40	63	80	100	40	63	80	100
Maximum operating current I _{max} (A,within 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
Max.power of load(kW)	8.8	13.9	17.6	22	15.2	24	30.4	38

Operation

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 imbalance value	20~99V	1V	20V
Three phase voltage imbalance recovery value	5~94V	1V	15V
Three phase voltage imbalance protection switch	OFF/ON		ON
Phase sequence protection switch	OFF/ON		ON
Over current protection value	1~40A/63A /80A/100A	0.1A	30A
Over current recovery delay time	1~500S	1S	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 protection times	1~20/OFF	1	OFF





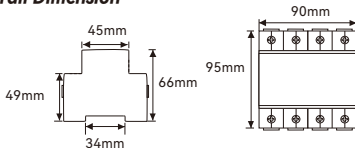
Continue to press the **SET** key to cycle

Long press set for 5 seconds to save

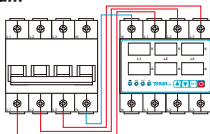


To adjust the figure quickly by long time press the add or subtract key

Overall Dimension



Wiring diagram



Manufactured under supervision of
 TOSUN(Germany) GmbH
 Made in China