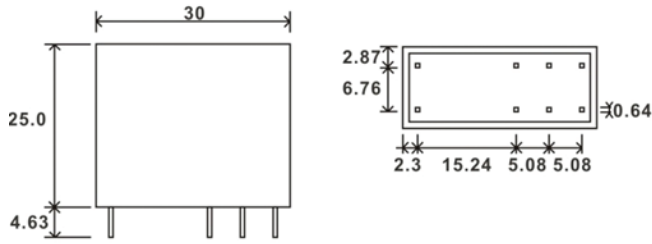


## Dimension



## Feature

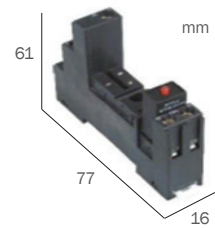
- Surge voltage suppression using bidirectional TVS diodes
- Over current protection using a PTC resistor
- Trip indication using a LED
- Easy maintenance (Plug in and out)
- Compact sized

**Application** Communication networks, DC power lines

**Approvals**  **RoHS**

## Selection guide

Protection mode	-	Input voltage	Terminal type
TSP3 = Common	-	12 = 12V	Blank = Pin headers only T = With a screw terminal socket
	-	24 = 24V	
TSP2 = Differential	-	34 = 34V	



## Electrical characteristics (Typical)

Parameter	TSP2-34	TSP3-24	TSP3-12	Unit
Line voltage	34	24	12	V
Max. DC operating voltage	38	27	14	V
Max. clamping voltage	55	40	20	V
Operating current (20 °C)	1.8	0.5	0.5	A
Trip current (20 °C)	3.7	1.0	1.0	A
Max. time to trip (8A)	2.0	0.15	0.15	sec
Nominal resistance (PTC)	0.15	1.0	1.0	Ω
ESD Power rating (8/20us)	60	40	40	kW
Protection rating	IP20	IP20	IP20	-
Ambient temperature	-40/+85	-40/+85	-40/+85	°C
Housing material	UL94-V0	UL94-V0	UL94-V0	-

## Wiring

