

Electronic Transient/Surge Protection

Low Cost Plug-In Protection Range
Including **SOLAR PV** Protectors



Also represented in Sydney – Brisbane – Adelaide

Transtech Electronic Controls Pty Ltd

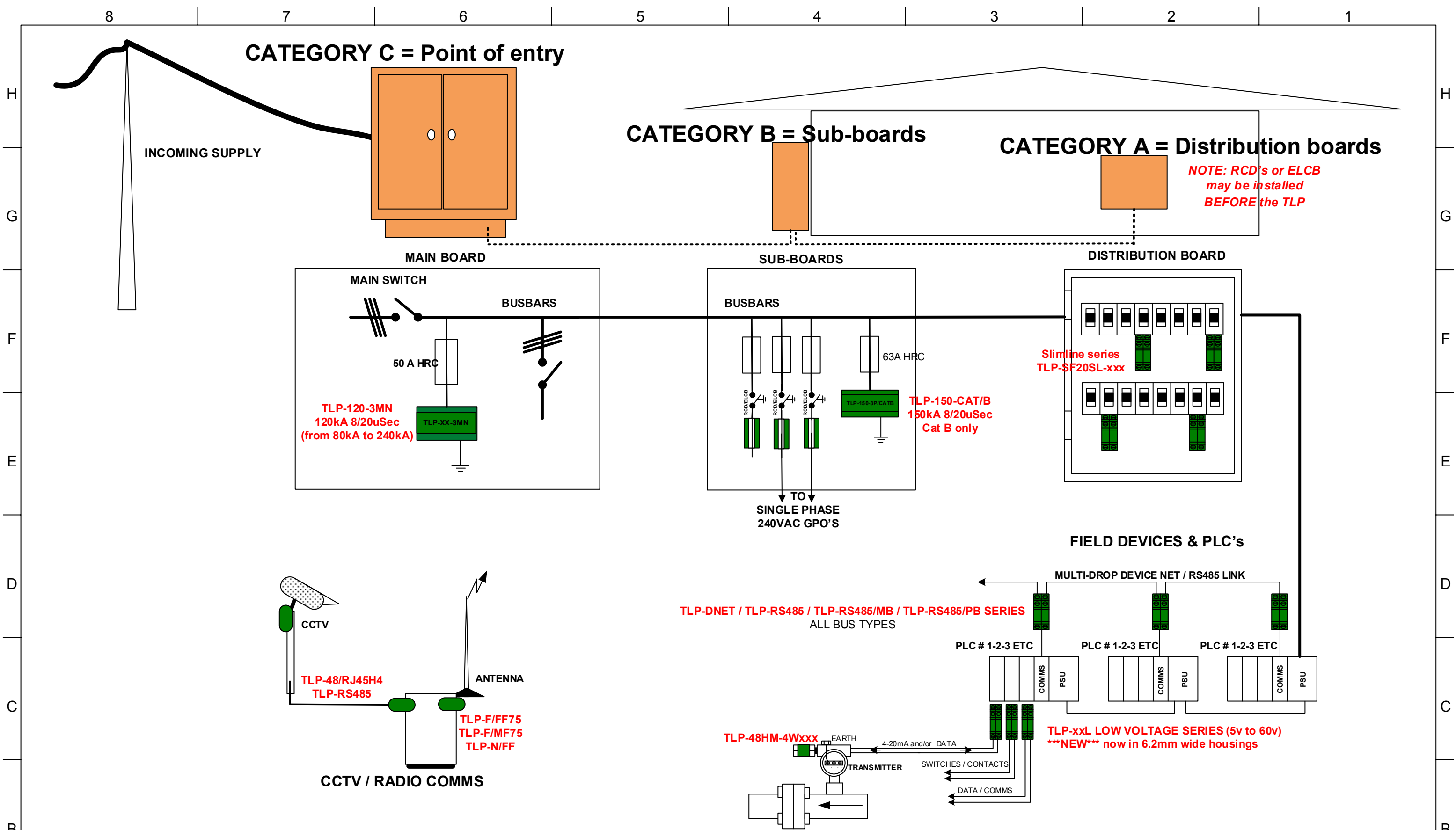
ABN 21 070 629 499

Melbourne and Perth

Perth Tel: (08) 9302-2044

Melbourne Office: (03) 9330-3624

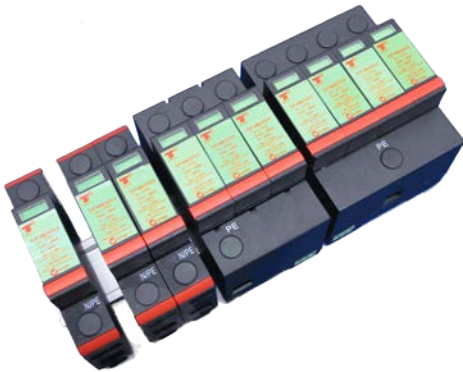
Info@transtech.com.au



A	REV.	DESCRIPTION		DATE	BY	CK'D	<div><div><div>T_t</div><div>TRANSTECH</div></div><div>TransTech Electronic Controls Pty Ltd ABN 21 070 629 499 Unit 2 / 48 Dellamarta Road, WANGARA W.A. 6065 Tel +61 8 9302-2044 Fax +61 8 9302-2054 Also in Melbourne (03) 9330-3624 Electrical & Electronic Design Engineers</div></div>	Customer				XXX XXX PTY LTD			
	A	Original Issue		xx/xx/xxxx	xxx	xxx		Project Name xxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx							
	B	Updated new products		01/10/2011											
	C														
	D							SIZE	ORDER NUMBER		DWG NO		REV		
	E							A3			PROxxx/x-x		A		
							SCALE	NTS		SHEET		1 OF 1			
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MODEL:- TLP-LOW COST 60kA

Transtech Lightning **Plug-In Protector** Single & Three Phase,
Flag Indicator + Relay – Class I / CAT C or less



GENERAL DESCRIPTION

The TLP-V60/275-S and DS60/275 3V-S is a “new series” lightning and transient protector which provides protection for electrical / electronic equipment connected to three phase distribution systems.

Both models are a single mode parallel connected protection device offering 60kA single mode for Single Phase Line 1 to earth and Three Phase Lines 1, 2, 3 to Earth.

For mains supply of greater than 100A adequate HRC fuse or MCB protection must be installed prior to the TLP-DT100P-3V-S

FEATURES

- ◆ Designed and manufactured to ISO 9001
- ◆ Local status indication by mechanical flag
- ◆ Remote status indication by c/o relay
- ◆ High Energy designed pcb's
- ◆ CE Marking / C-tick N 2909
- ◆ 3 Pole base with common PE version
- ◆ DIN 43880 compliant
- ◆ Designed to pass IEC 61643-1:2005 and AS/NZS 1768:2005

NOTE: This device must be installed by a Qualified Electrician.

TECHNICAL DATA

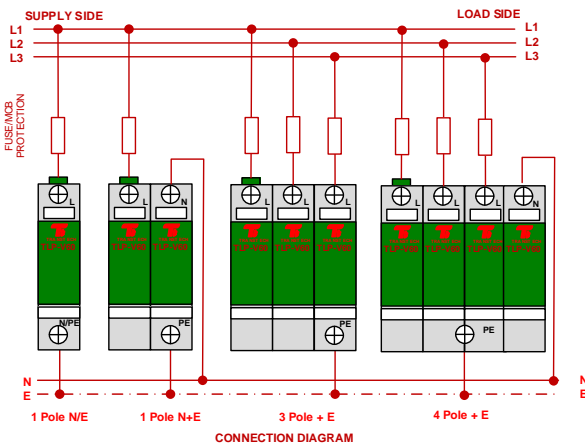
Normal Working voltage	240VAC rms L – E(PE)
Minimum Working voltage	185VAC rms
Maximum Working voltage	275AC rms
Working Freq.	40 - 60Hz
Peak let thru volts	less than 1000V
Maximum mains current	Unlimited (parallel connected) Must be fuse protected over 100A Mains
I _{max}	60kA (8/20uS)
I _{in}	25kA (8/20uS)
Response time.	Less than 25nS
Relay Contacts.	SPCO (1 amp @240Vac)
Surge Reset	Automatic

SPECIAL FEATURES

Relay Output MOV failed Indicator	The relay de-energizes. L1, L2, L3, flag type RED / GREEN
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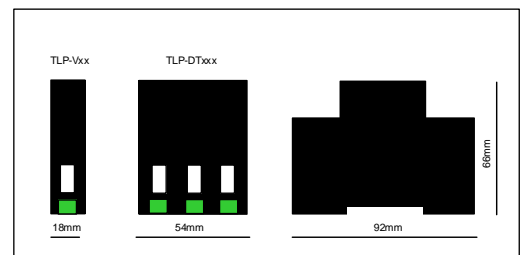
GENERAL SPECIFICATION

Operating Temp	-40 to +80 Deg C
Terminals	35mm ² solid max / 10mm ² flex max
Remote Terminals	Plug in 2.5mm ²
Indicators	Green/Red mechanical flag
Housing Material	Thermoplastic UL94-V-O
Degree Protection	IP-20
Dimensions (module)	See dimensions below
Weight	850 grams
Mounting	DIN 43880 Standard DIN Rail



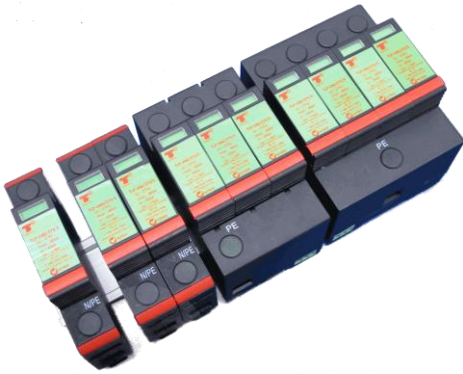
Model	Working Voltage	Frequency.	I _{max}	I _{imp}	I _n	Let Thru V	Response Time
TLP-V60/275-S	275V 1P	40-60HZ	60kA	4kA	25kA	@3kA > 1350	25nS
TLP-DS60/275-2V-S	275V 2P	40-60HZ	60kA	4kA	25kA	> 1350	25nS
TLP-DT60/275-3V-S	275V 3P	40-60HZ	60kA	4kA	25kA	>1350	25nS
TLP-DT60/275-4V-S	275V 4P	40-60HZ	60kA	4kA	25kA	>1350	25nS

TABLE No 2



MODEL:- TLP-LOW COST 100kA

Transtech Lightning **Plug-In Protector** Single & Three Phase,
Flag Indicator + Relay – Class I+II / CAT C or less



GENERAL DESCRIPTION

The TLP-V100P/275-S and DT100P/275 3(4)V-S is a “new series” lightning and transient protector which provides protection for electrical / electronic equipment connected to three phase distribution systems.

Both models are a single mode parallel connected protection device offering 100kA single mode for Single Phase Line 1 to earth and Three Phase Lines 1, 2, 3, + N to Earth.

For mains supply of greater than 100A adequate HRC fuse or MCB protection must be installed prior to the TLP-DT100P-3(4)V-S

FEATURES

- Designed and manufactured to ISO 9001
- Local status indication by mechanical flag
- Remote status indication by c/o relay
- High Energy designed pcb's
- CE Marking / C-tick N 2909
- 3 Pole base with common PE version
- DIN 43880 compliant
- Designed to pass IEC 61643-1:2005 and AS/NZS 1768:2005

NOTE: This device must be installed by a Qualified Electrician.

TECHNICAL DATA

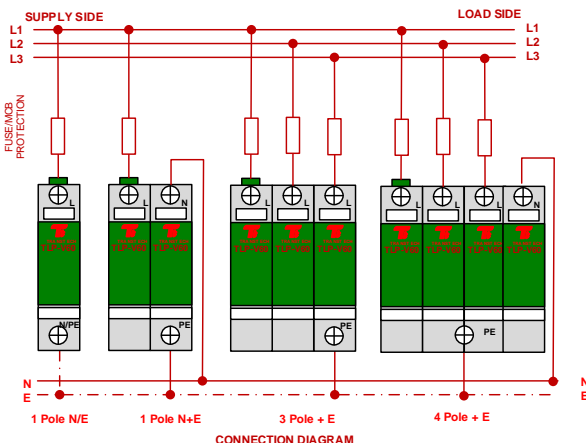
Normal Working voltage	240VAC rms L & N – E(PE)
Minimum Working voltage	185VAC rms
Maximum Working voltage	275AC rms
Working Freq.	40 - 60Hz
Peak let thru volts	less than 1000V
Maximum mains current	Unlimited (parallel connected)
	Must be fuse protected over 100A Mains
I _{max}	100kA (8/20uS)
I _{in}	50kA (8/20uS)
Response time.	Less than 25nS
Relay Contacts.	SPCO (1 amp @240Vac)
Surge Reset	Automatic

SPECIAL FEATURES

Relay Output MOV failed Indicator	The relay de-energizes. L1, L2, L3, + N flag type RED / GREEN
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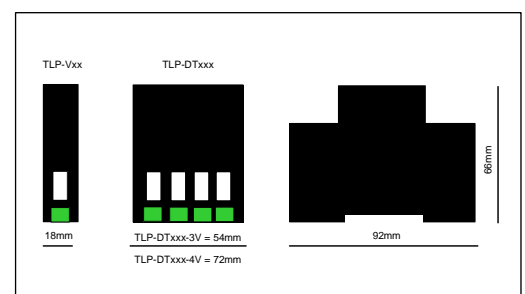
GENERAL SPECIFICATION

Operating Temp	-40 to +80 Deg C
Terminals	35mm ² solid max / 10mm ² flex max
Remote Terminals	Plug in 2.5mm ²
Indicators	Green/Red mechanical flag
Housing Material	Thermoplastic UL94-V-O
Degree Protection	IP-20
Dimensions (module)	See dimensions below
Weight	850 grams
Mounting	DIN 43880 Standard DIN Rail



Model	Working Voltage	Frequency.	I _{max}	I _{imp}	I _n	Let Thru V	Response Time
	Phase-PNE		1 Pulse	10/350us	15x8/20us	@3kA	
TLP-V100P/275-S	275V	40-60HZ	100kA	6.5kA	50kA	> 1350	25nS
TLP-DT100P/275-3V-S	275V	40-60HZ	100kA	6.5kA	50kA	> 1350	25nS
TLP-DT100P/275-4V-S	275V	40-60HZ	100kA	6.5kA	50kA	> 1350	25nS

TABLE No 2



MODEL:- TLP-PV50-1200-S

Transtech Lightning Protector for Solar Panels.



GENERAL DESCRIPTION

The TLP-P50-1200-S is a “high power DC Voltage” lightning and transient protector which provides protection for electrical / electronic equipment connected to DC distribution systems, such as Solar Panels. The TLP-PV50-1200-S is a parallel device with an surge rating to 50kA and should be installed as close as possible to the supply being protected.

For mains supply of greater than 100A adequate HRC fuse or MCB protection must be installed prior to the TLP-120-2/xxxV.

FEATURES

- ♦ Designed and manufactured to ISO 9001
- ♦ Maintenance free
- ♦ Local status indication by RED flag for fault
- ♦ Remote status indication for fault (relay output)
- ♦ Long lifetime, high capacity circuit boards.
- ♦ CE Marking / C-tick N 2909
- ♦ Full 3 mode protection
- ♦ **NOTE: This device must be installed by a Qualified Electrician.**

TECHNICAL DATA

Normal Working voltage
Maximum Working voltage
Working Freq.
Peak let thru volts
Maximum mains current

Imax
In (15 x 8/20uSec)
Response time
Relay Contacts
Surge Reset

1200VDC
 1490VDC
 DC
 Less than 3.6kV
 Unlimited (parallel connected)
 Must be fuse protected over 100A Mains
 50kA (8/20uS)
 20kA (8/20uS)
 Less than 25nS
 SPCO (2 amp @240Vac)
 Automatic

SPECIAL FEATURES

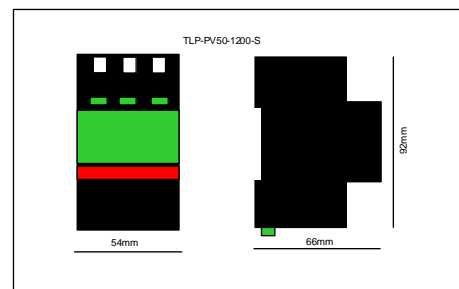
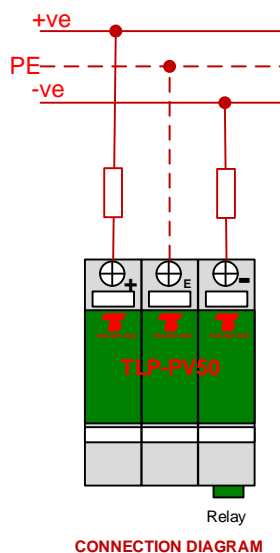
Relay Output
 Mechanical Flag

Fault (relay de-energizes) SPCO (2 amp @240Vac)
GREEN = OK, **RED** = Change

GENERAL SPECIFICATION

Operating Temp
 Terminals
 Remote Terminals
 Indicators
 Housing Material
 Dimensions
 Weight
 Mounting

-40 to +70 Deg C
 16mm² solid max / 10mm² flex max
 Plug in 2.5mm²
 Red / Green Flags
 Polycarbonate black
 54(W) x 100(H) x 66(D)
 700 grams
 DIN 43880 Standard DIN Rail



MODEL:- TLP-PVxxx-2P/xxxV+DR

Transtech Lightning Protector for Solar Panels.



GENERAL DESCRIPTION

The TLP-PVxxx-2P/xxxV is a “high power DC Voltage” lightning and transient protector which provides protection for electrical / electronic equipment connected to DC distribution systems, such as Solar Panels. The TLP-Pxxx-2P/xxxV is a parallel device with an increased surge rating to 120kA and should be installed as close as possible to the supply being protected. The TLP-PVxxx-2P/xxxV offers true common and differential mode protection with a 120kA surge current in all modes.

For mains supply of greater than 100A adequate HRC fuse or MCB protection must be installed prior to the TLP-PVxxx-2P.

FEATURES

- ◆ Safe, all metal housing
 - ◆ Designed and manufactured to ISO 9001
 - ◆ Maintenance free
 - ◆ Internally protected – automatic reset
 - ◆ Local status indication by LED's for power loss and/or fault
 - ◆ Remote status indication for power loss or fault (relay output)
 - ◆ Long lifetime, high capacity circuit boards.
 - ◆ CE Marking / C-tick N 2909
 - ◆ Full 3 mode protection
- ◆ **NOTE: This device must be installed by a Qualified Electrician.**

TECHNICAL DATA

Normal Working voltage
Maximum Working voltage
Working Freq.
Peak let thru volts
Maximum mains current

I_{max}

I_n (15 x 8/20uSec)

Mass Surge Material

Response time

Relay Contacts

Surge Reset

450VDC
900VDC
DC
Less than 2kV
Unlimited (parallel connected)
Must be fuse protected over 100A Mains
40, 80 and 120kA (8/20uS)
16, 32 and 48kA (8/20uS)
195kA (8/20uS)
Less than 25nS
SPCO (2 amp @240Vac)
Automatic

SPECIAL FEATURES

Relay Output

LED's

Power

Power/Phase loss or fault (relay de-energizes)
SPCO (2 amp @240Vac)

OFF = No Power
BLUE = OK

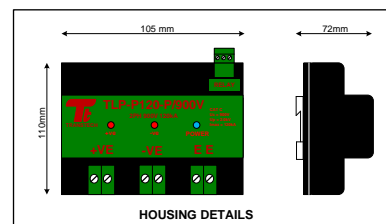
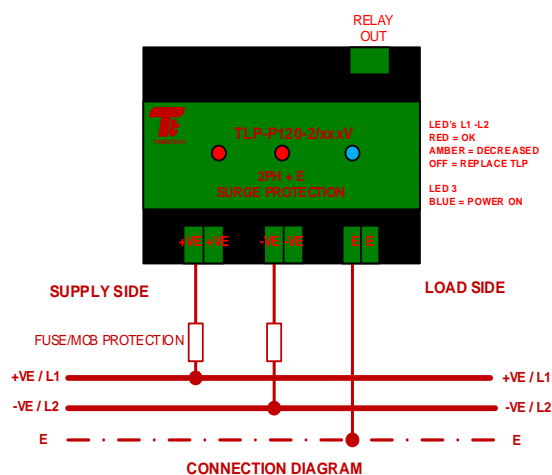
Monitor (L1 & L2)

RED = OK
AMBER = Reduced

GENERAL SPECIFICATION

Operating Temp
Terminals
Remote Terminals
Indicators
Housing Material
Dimensions
Weight
Mounting

-40 to +70 Deg C
16mm² solid max / 10mm² flex max
Plug in 2.5mm²
Red/Amber/Blue LED's
Mild Steel (Powder coated)
110(W) x 72(H) x 110(D)
700 grams
DIN 43880 Standard DIN Rail



Our Brands.....



- Electronic Lightning Protectors - the *TLP* series
- Signal Conditioners & Trip Modules
- Power Supplies / Battery Chargers



Micro Detectors

Embedded Sensing



KRIZ Sensors



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