

# BOARD BUILDER RANGE...



TRANSTECH is a leading designer and manufacturer offering a full range of Electronic Surge Protection—from Main Board to Sub-Board to final Sub-Circuits, we cover all.

## HYBRID—MAINS & SUB-BOARDS

### Features:

Compact design—DIN profile

Hybrid technology with 40kA, 65kA, 80kA, 130kA fault rating

Hybrid technology extra high fault 160kA & 200kA rating

Competitive pricing

Large terminals to 16mm<sup>2</sup>

LED plus relay output.

### Model

TLP-CPH40-3P-415-R  
TLP-CPH65-3P-415-R  
TLP-CPH80-3P-415-R  
TLP-CPH130-3P-415-R  
TLP-CPHH160-3P-415-R  
TLP-CPHH200-3P-415-R



## MID SPEC—MAIN & SUB-BOARDS

### Features:

Robust DIN Profile design

LED's and Relay out (can be fitted with Modbus output)

50kA, 80kA, 130kA fault rating

Competitive pricing

Large terminals to 16mm<sup>2</sup>

LED plus relay output.

### Model

TLP-CP50-3P-DRI  
TLP-CP80-3P-DRI  
TLP-CP130-3P-DRI



## HIGH SPEC — MAIN SWITCHBOARD

### Features:

Robust DIN Profile design

LED's and Relay out (can be fitted with Modbus output)

120kA, 160kA, 200kA and 240kA fault rating

Competitive pricing

Large terminals to 16mm<sup>2</sup>

LED plus relay output.

### Model

TLP-P120-3P-DRI  
TLP-P160-3P-DRI  
TLP-P200-3P-DRI  
TLP-P240-3P-DRI



Transtech Electronic Controls Pty Ltd

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## COMBO SOLUTIONS—SURGE + FUSES

### TLP 40kA & 65kA SOLUTIONS WITH

#### Features:

Robust DIN Profile design

LED's and Relay out (can be fitted with Modbus output)

65kA fault rating + matching 3Ph fuses.

Competitive pricing

Large terminals to 16mm<sup>2</sup>

#### Model

TLP-CPH40-3P-R + 32Amp 3Ph Fuses  
TLP-CPH65-3P-R + 32Amp 3Ph Fuses



### TLP 80kA & 200kA SOLUTIONS WITH

#### Features:

Robust DIN Profile design

LED's and Relay out (can be fitted with Modbus output)

80kA & 200kA fault rating + matching 3Ph fuses

Competitive pricing

#### Model

TLP-CPH80-3P-R + 50Amp 3Ph Fuses  
TLP-CPH130-3P-R + 50Amp 3Ph Fuses  
TLP-CPHH160-3P-R + 50Amp 3Ph Fuses  
TLP-CPHH200-3P-R + 50Amp 3Ph Fuses



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## SERIES SURGE FILTERS / SUB-BOARD

### Features:

Compact design—DIN profile (20Amp 25mm wide)

Third Party tested/passed to IEC

Competitive pricing

Large terminals to 16mm<sup>2</sup>

Healthy LED indication

### Model

TLP-SF20SL-120V or 240V

TLP-SF40-1P-240V

TLP-SF63-1P-240V

TLP-SF32-3P-80-DRI

TLP-SF40-3P-120-DRI



## SERIES or PARALLEL PROTECTION

### Features:

Robust DIN Profile design and only 25mm wide

Competitive pricing

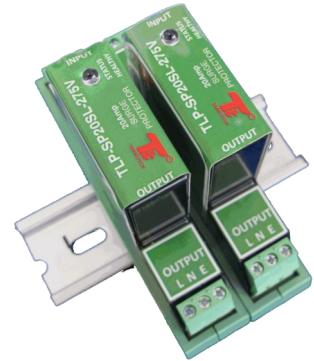
Large terminals to 16mm<sup>2</sup>

Healthy LED indication.

### Model

TLP-SP20SL-120V

TLP-SP20SL-275V



## LOW COST—PLUG-IN

### Features:

Plug-in design—DIN profile

60kA and 100kA fault rating

Competitive pricing

Good local stocks

IEC compliant and Indicators with relay out.

### Model

TLP-V60/275-S-1P

TLP-DT60/275-3V-S

TLP-DT60/275-4V-S

TLP-DT100P/275-3V-S

TLP-DT100P/275-4V-S

Free application advice

Low “let-thru” voltages

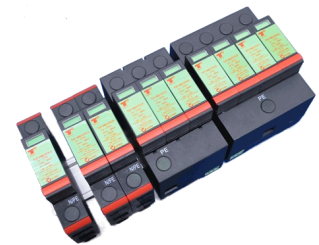
Protection between all 3 phases & Earth

Fast snap-on DIN rail clips

Good local stocks and kA capacity ranges.

Location Category suitable for Cat C, B and A to AS1768

IEC compliant and Indicators with relay out.



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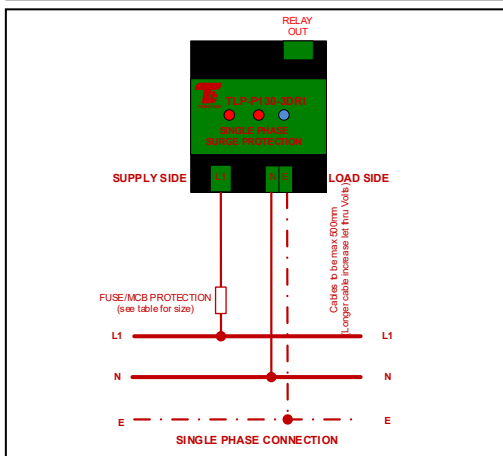


AS/NZS1768:2007 states that Surge/SPD's mains protectors should have protective fuses or an MCB preceding them (in addition to internal fusing). A set of protective fuses or MCB should be installed to isolate/protect the SPD (see table at the foot of this page for ratings).

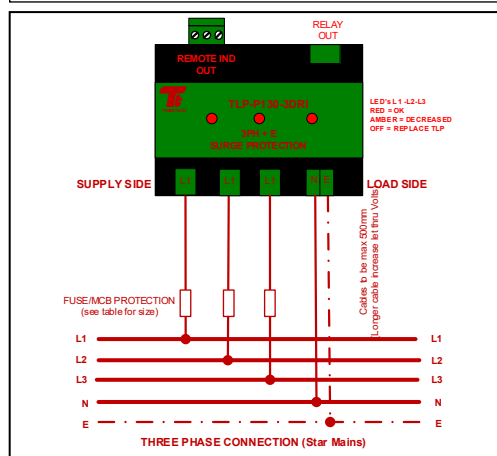
The fuse(s) or MCB offer an isolation feature to allow the TLP to be removed from service and replaced if need be.

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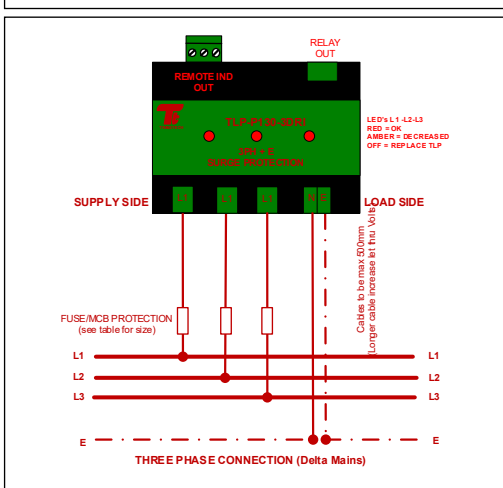
**Fig 1. Single Phase Connections**



**Fig 2. Three Phase Connections**



**Fig 3. Three Phase Delta Connection**



## INSTALLATION NOTES

- Cables connecting the TLP series should be as short as possible (less than 500mm is ideal), they should be straight and not have loops or curls and be bound tightly together.
- Cables should be as large as possible with a maximum of 16mm<sup>2</sup>
- A set of protective fuses or MCB should be installed to isolate/protect the TLP.

## PROTECTION TABLE FOR SURGE PROTECTORS:

All TransTech TLP surge protectors have internal fuse protection offering up to 100Amp fault current capacity. AS/NZS 1768:2007 Clause 5.6.3.6 e)

Fusing & wiring states that there must be fuse protection prior to the SPD. Recommendation of the ratings are found as per the list below.

TLP MODEL	SURGE RATING	PROTECTION	AMPS	COMMENT
TLP-SF20SL-240V	25kA	HRC or RCD	25	Single phase series filter for sub-circuits
TLP-CP50-3P	50 kA or less	HRC	30	Fuse available will allow transient clamp
TLP-CP80-3P	80 kA rated	HRC	50	Fuse available will allow transient clamp
TLP-CP130-3P	130 kA rated	HRC or MCB	50	MCB or Fuse will allow transient clamping
TLP-P160-3P	160 kA rated	HRC or MCB	50	MCB or Fuse will allow transient clamping



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