



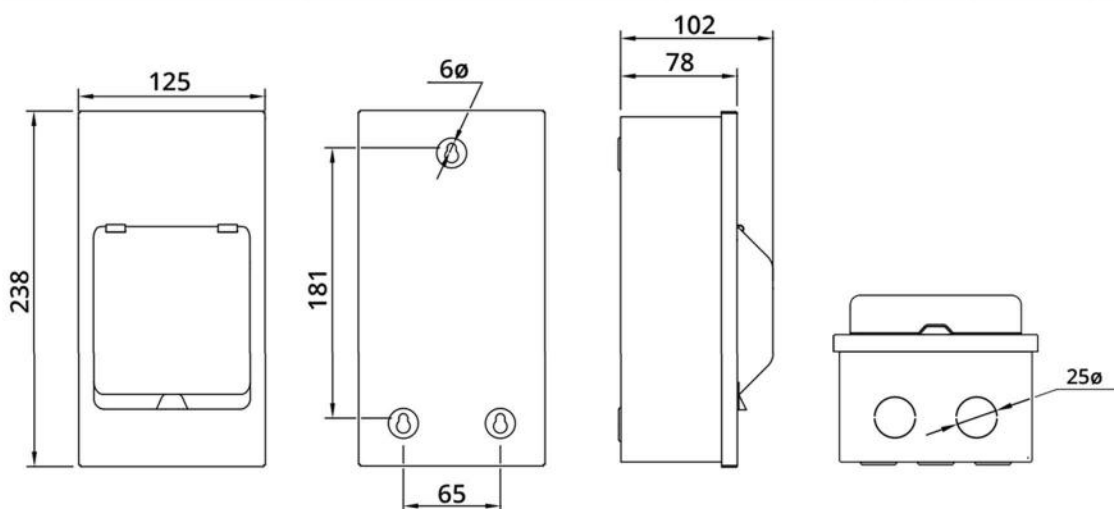
## INTRODUCTION

The SCL Surge Shield - ESPD-1002P from Switchtec offers a complete 18th Edition compliant surge protection system. Pre-Wired and designed for new installations or upgrades to existing TT-TN networks. The SCL Surge Shield provides surge protection up to a maximum discharge current ( $I_{max}$ ) of 40kA.

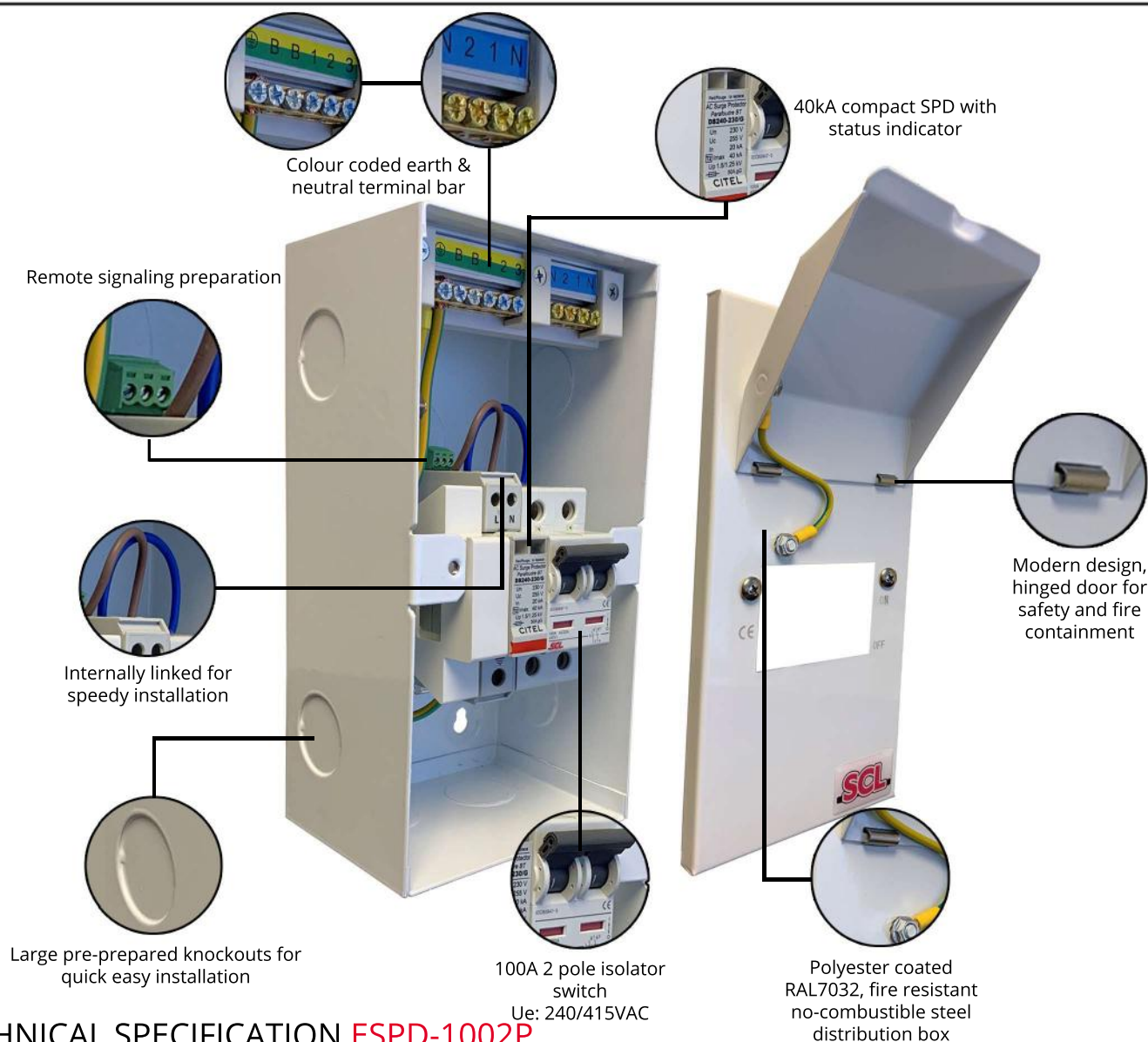
Developed in partnership with Surge Protection Device manufacturer; Citel, France. A world leading SPD manufacturer since 1944, the SCL Surge Shield offers Type 2 surge protection which complies with IEC 61643-11.

Mounted alongside a 100A 2 Pole isolator switch allowing for circuit disconnection for module replacement and maintenance.

## DIMENSIONS



## FEATURES



## TECHNICAL SPECIFICATION **ESPD-1002P**

Surge Protection Device	Characteristics
Description according to IEC 61643-11, EN 60497-11 UL1449	Type 2 Surge Protector
Network	230 V single phase
Connection mode	L/N and N/PE
AC system	TT-TN
Max. AC operating voltage	Uc 255 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT 335 Vac withstand
Temporary Over Voltage (TOV) Characteristics - 120 mn	UT 440 Vac disconnection
Temporary Over Voltage N/PE (TOV HT)	UT 1200 V/300A/200 ms withstand
Max. Load current	IL 20 A
Nominal discharge current - 15 x 8/20 $\mu$ s impulses	In 20 kA
Max. discharge current -max. withstand @ 8/20 $\mu$ s by pole	Imax 40 kA
Protection level CM/DM @In (8/20 $\mu$ s) and @ 6kV (1.2/50 $\mu$ s)	Up 1.5/1.25 kV
Certification	UL/CSA/EAC
Cable Size	1.5-10mm <sup>2</sup> (L/N) or 2.5-25mm <sup>2</sup>
Protection Rating	IP20
Operating Temperature	-40°C to +85°C

Isolator Specification	Characteristics
Description according to IEC 60947-3, EN 60497-11	Isolation Switch
Rated Voltage	UE 240/415VAC
Rated Current	IE 100A
Poles	2P
Rated Frequency	50/60Hz
Rated impulse withstand voltage (1.2/50)	Uimp 4kV
Utilization category	AC-22A
Insulation Voltage	UI 500V
Operating Temperature	-5°C to +40°C*
Certification	CE/TUV/EAC/RoSH
Cable Size	2.5-50mm <sup>2</sup>
* Protection Rating	IP20

### DOES MY INSTALLATION REQUIRE SURGE PROTECTION?

According to Regulation 443, Surge Protection is required for protection againsts transient overvoltage where these consequences caused by overvoltage affect the following:

1. Results in serious injury to, or loss of, human life, or
2. Results in interruption of public service and/or damage to cultural heritage or
3. Affects a large number of collocated individuals

If you are unsure whether you need Surge Protection or which device you need, speak to a member of the Switchtec technical who will help you identify an SPD best suited to your application.