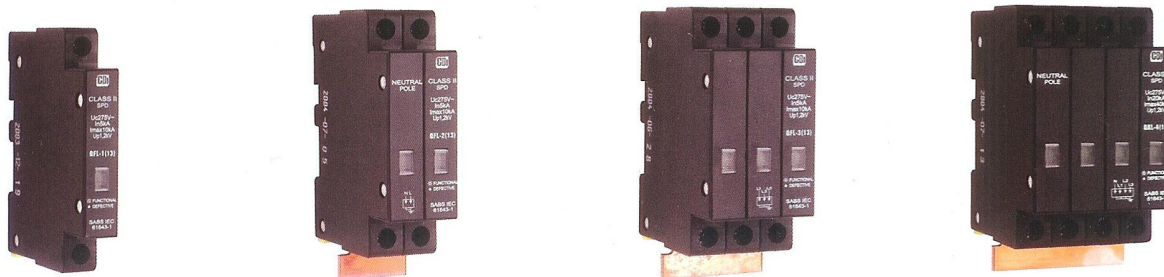


## 5kA and 20kA Rail Mounted Surge Protective Devices



### Features

- SANS 61643-1 approved
- Compact size (13mm per pole)
- Clip-in, Dual mounting (Mini rail and DIN rail)
- LED indication of the SPD's condition – whilst ON, the SPD is functional, if OFF and the mains power is still available, then the SPD is no longer functional and should be replaced
- Thermal disconnect device (prevents potential thermal runaway problems)
- One port SPD (no series impedance)
- Voltage limiting/clamping-type SPD (MOV)
- IP 20 rating

### Applications

- For surge protection on incoming power supply in lightning protection zones O<sub>B</sub> to I or I to 2 in compliance with SANS 10142-1 [The Wiring of Premises].
- For maximum efficiency, ensure that the installation is earthed in accordance with SANS IEC 61312.

### Technical Data

Product Type	QFL-1(13), QFL-1(13)D QFL-3(13), QFL-3(13)D QFLN-2(13), QFLN-2(13)D QFLN-4(13), QFLN-4(13)D	QKL-1(13), QKL-1(13)D QKL-3(13), QKL-3(13)D QKLN-2(13), QKLN-2(13)D QKLN-4(13), QKLN-4(13)D	
Max. Continuous Operating Voltage (U <sub>c</sub> ) (Please specify desired voltage)	130V	275V AC (RMS)	275V AC (RMS)
Voltage Protection Level (U <sub>p</sub> )	0.7kV	1.5kV	1.5kV
Nominal Discharge Current (I <sub>n</sub> ) Maximum	5kA (8/20 μs)		20kA (8/20 μs)
Discharge Current (I <sub>max</sub> )	10kA (8/20 μs)		40kA (8/20 μs)
Short Circuit Withstand*	2.5kA (50Hz)		5kA (50Hz)
Lightning Protection Zone	O <sub>B</sub> to I or I to 2		O <sub>B</sub> to I or I to 2
SPD Class	Class II		Class II

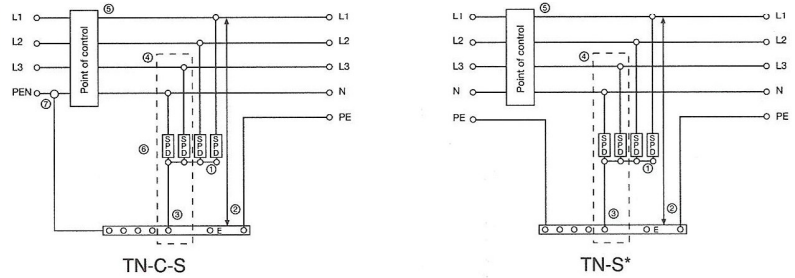
\*Backed up by a suitable short circuit protection device (SCPD)

- \* For Prospective Short Circuit Currents up to 2.5kA: Use any QA circuit breaker
- \* For Prospective Short Circuit Currents up to 5kA: Use any QF circuit breaker
- \* For Prospective Short Circuit Currents above 5kA: Contact CBI-electric:low voltage

## 5kA and 20kA Rail Mounted Surge Protective Devices

### Wiring Precautions

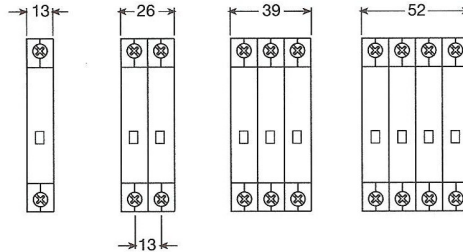
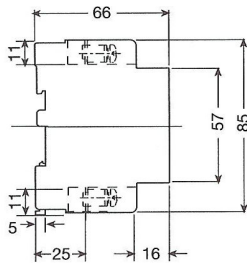
- For maximum efficiency, the installation should be earthed according to SANS 61312
- If the distance of N and E is >20m from the separating point "P" on a TN-C-S system, use a 2 pole device (IP+N).
- (For details refer to SANS 10142-1).



\*SINGLE PHASE

### DIMENSIONAL DATA

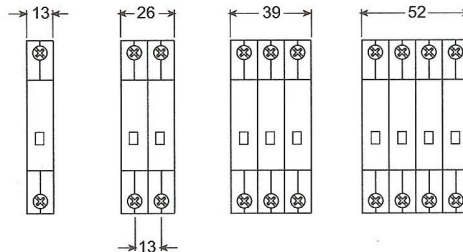
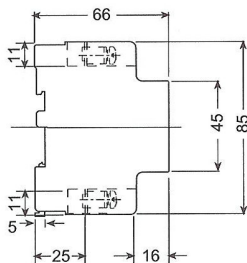
57mm Escutcheon (Mini Rail Mounting)



	1P	2P	3P	4P
H	85	85	85	85
W	13	26	39	52
D	66	66	66	66

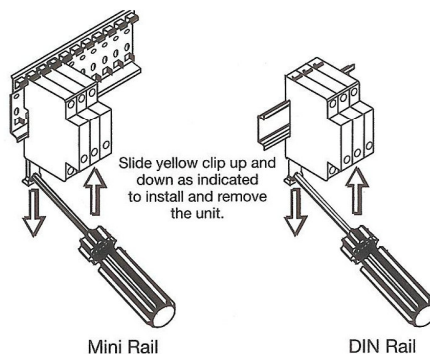
### DIMENSIONAL DATA

45mm Escutcheon (DIN Rail Mounting)



	1P	2P	3P	4P
H	85	85	85	85
W	13	26	39	52
D	66	66	66	66

### MOUNTING AND INSTALLATION



A member of the REUNERT Group

**JOHANNESBURG**  
**Head Office**  
 Private Bag 2016 Isando 1600  
 South Africa  
 Tripswitch Drive Elandsfontein  
 Gauteng  
 Tel: (011) 928 2000  
 Fax: (011) 392 2354  
 Website: www.cbi-electric.com  
 E-mail: cbi@cbi-electric.com

**BLOEMFONTEIN**  
**Free State/Northern Cape**  
 PO Box 9719 Bloemfontein 9300  
 6 AE Viljoen Square Hilton  
 Bloemfontein  
 Tel: (051) 430 8613/4  
 Fax: (051) 430 1141  
 Website: www.cbi-electric.com  
 E-mail: bfn@cbi-electric.com

**CAPE TOWN**  
**Western Cape**  
 PO Box 17055 Ravensmead  
 Cape Town 7504  
 Unit 2 Central Park Epping Ave  
 Elsies River  
 Tel: (021) 931 3125/6/7/8/9  
 Fax: (021) 931 3120  
 Website: www.cbi-electric.com  
 E-mail: ctn@cbi-electric.com

**DURBAN**  
**Kwa Zulu Natal**  
 PO Box 7 Durban 4098  
 No 70 Intersite Avenue  
 Umgeni Business Park  
 Tel: (031) 263 0900  
 Fax: (031) 263 0999  
 Website: www.cbi-electric.com  
 E-mail: dbn@cbi-electric.com

**PORT ELIZABETH**  
**Eastern Cape**  
 PO Box 3584 North End  
 Port Elizabeth 6056  
 425 Fettes Road  
 North End  
 Tel: (041) 374 1270/1/2  
 Fax: (041) 373 1919  
 Website: www.cbi-electric.com  
 E-mail: pe@cbi-electric.com