

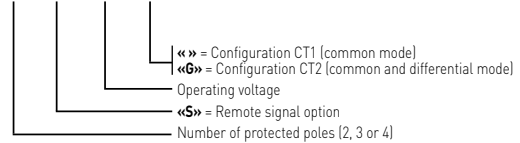
## Type 1 AC Surge Protector DS100R series

**Imax  
100 kA**



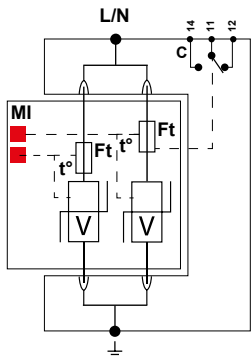
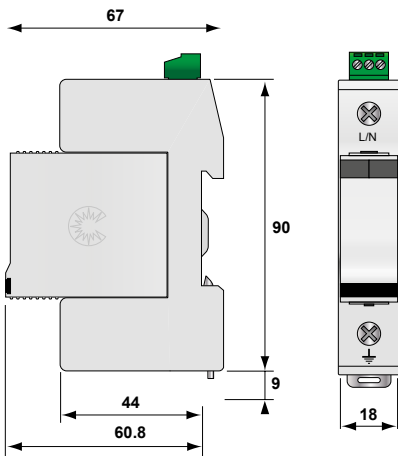
- **Type 1 Surge Protector**
- **limp : 8 kA**
- **In : 30 kA / I<sub>max</sub> : 100 kA**
- **Pluggable module by phase**
- **Remote Signaling option**
- **IEC 61643-11, EN 61643-11 and UL1449 ed.3 compliance**

**DS10xRS-xxx/G**



### Dimensions and Diagram

(en mm)



V : High energy varistor  
 Ft : Thermal Fuse  
 C : Remote signaling contact  
 t : Thermal disconnection system

### Characteristics

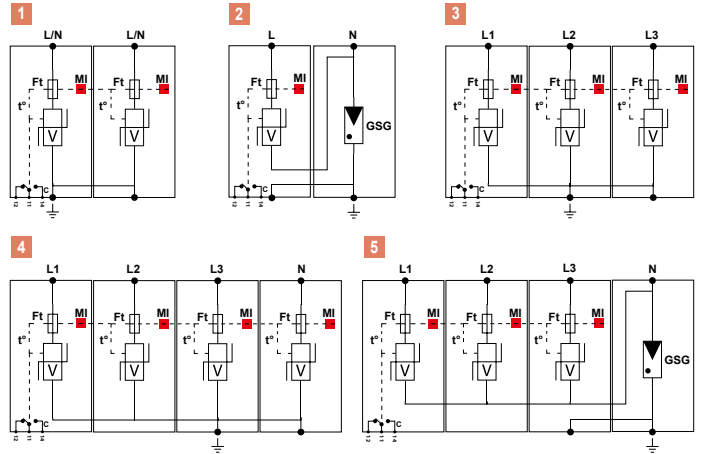
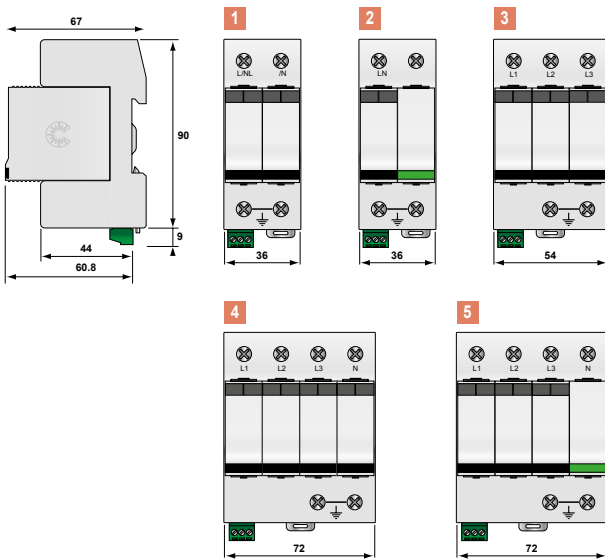
CITEL part number	DS101R-400	DS101R-230	DS101R-120
Network	230/400V	230/400V	120/208V
Max. operating voltage	U <sub>c</sub> 440 Vac	320 Vac	150 Vac
Temporary overvoltage withstand	U <sub>r</sub> 770 Vac	440 Vac	230 Vac
Operating current	I <sub>c</sub> < 1 mA	< 1 mA	< 1 mA
Leakage current at U <sub>c</sub>			
Follow current	I <sub>f</sub> none	none	none
Impulse current	I <sub>imp</sub> 8 kA	8 kA	8 kA
by pole - max withstand 10/350µs			
Nominal discharge current	I <sub>n</sub> 30 kA	30 kA	30 kA
15 x 8/20 µs impulses			
Maximum discharge current	I <sub>max</sub> 100 kA	100 kA	100 kA
max. withstand 8/20 µs			
Protection level [at I <sub>n</sub> ]	U <sub>p</sub> 1.8 kV	1.4 kV	1 kV
Residual voltage at 10 kA	1.4 kV	1 kV	0.7 kV
Residual voltage at 5 kA	1.2 kV	0.9 kV	0.6 kV
Admissible short-circuit current	25000 A	25000 A	25000 A
<b>Associated disconnection devices</b>			
Thermal disconnecter	internal		
Fuses	Fuses type gG - 100 A		
Installation ground fault breaker	Type «S» or delayed		
<b>Mechanical characteristics</b>			
Dimensions	see diagram		
Connection	by screw terminals : 2.5-25 mm <sup>2</sup> / by bus		
Disconnection indicator	2 mechanical indicators by pole		
Remote signaling of disconnection	Option DS10xRS - output on changeover contact		
Mounting	symmetrical rail 35 mm		
Operating temperature	-40/+85 °C		
Protection class	IP20		
Housing material	Thermoplastic UL94-V0		
<b>Standards compliance</b>			
EN 61643-11	Europe	Low Voltage SPD - Class II Test	
IEC 61643-11	International	Low Voltage SPD - Class II Test	
NF EN 61643-11	France	Parafoudre Basse Tension - Essais Classe II	
UL1449 ed.3	USA	Low Voltage TVSS	
<b>Part number</b>			
DS101R-400	321421		
DS101R-230	321721		
DS101R-120	321621		



# Data Sheet

## Type 1 AC Multipolar Surge Protector DS102R, DS103R, DS104R

### Dimensions and Diagram



V : High energy MOV  
 Mi : Disconnection indicator  
 Ft : Thermal fuse  
 $t^{\circ}$  : Thermal disconnection mechanism  
 C : contact for remote signal

### Characteristics

Références	Part number	Network	AC system	Protection mode		Iimp total 10/350 $\mu$ s	Up L/PE	Up L/N	Diagram
				common	differential				
DS104RS-230/G	491572	230/400 V 3-phase+N	TT-TNS	●	●	32 kA	1.5 kV	1.4 kV	5
DS104R-120/G	-	120/208 V 3-phase+N	TT-TNS	●	●	32 kA	1.5 kV	1 kV	
DS104R-400	49140220	230/400 V 3-phase+N	IT-TT-TNS	●		32 kA	1.8 kV	-	4
DS104R-230	49150200	230/400 V 3-phase+N	TNS	●		32 kA	1.4 kV	-	
DS104R-120	-	120/208 V 3-phase+N	TNS	●		32 kA	1 kV	-	3
DS103R-400	32140320	400 V 3-phase	IT-TNC	●		24 kA	1.8 kV	-	
DS103R-230	491543	400 V 3-phase	TNC	●		24 kA	1.4 kV	-	
DS103R-120	-	208 V 3-phase	TNC	●		24 kA	1 kV	-	2
DS102RS-230/G	49153120	230 V single phase	TT-TN	●	●	16 kA	1.5 kV	1.4 kV	
DS102R-120/G	-	120 V single phase	TT-TN	●	●	16 kA	1.5 kV	1 kV	1
DS102R-400	49140120	230V single phase	IT-TT-TNS	●		16 kA	1.8 kV	-	
DS102R-230	49150120	230V single phase	TN	●		16 kA	1.4 kV	-	
DS102R-120	-	120 V single phase	TN	●		16 kA	1 kV	-	

