

Type 2 AC Surge Protectors DS70R Series

**Imax
70 kA**

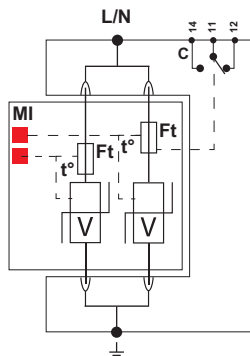
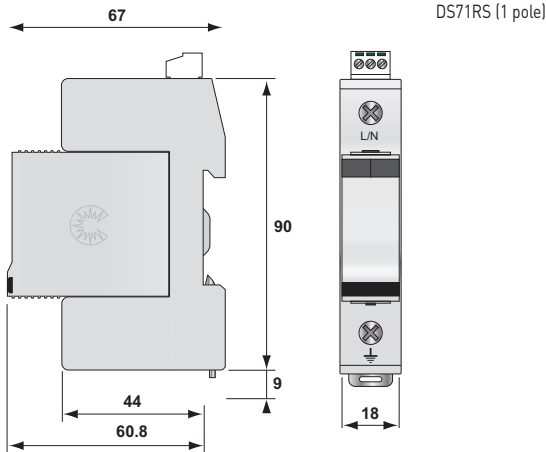


DS71R-400

- **Type 2 AC Surge Protector**
- **Multi-MOV Reinforced Design**
- **Individual Fault Indicator Windows**
- **Slim 18mm Form Factor**
- **Imax : 70 kA at 8/20µs**
- **In : 30 kA at 8/20µs**
- **UL 1449 3rd Edition Recognized**

Dimensions and Electrical Diagram

(in mm)



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

Characteristics

CITEL Part Number		DS71RS-400	DS71RS-230	DS71RS-120
AC network voltage		277-347 V	220-240 V	120-127 V
Maximum operating voltage	Mcov	420 Vac	275 Vac	150 Vac
Temporary overvoltage withstand	Ur	770 Vac	440 Vac	230 Vac
Operating current	Ic	< 1 mA	< 1 mA	< 1 mA
Follow current	If	none	none	none
Nominal discharge current (IEC/UL) 15 x 8/20 µs impulse	In	30 kA / 20 kA	30 kA / 20 kA	30 kA / 20 kA
Maximum discharge current 8/20 µs withstand	Imax	70 kA	70 kA	70 kA
Protection level at In	Up-In	1.8 kV	1.4 kV	1 kV
Protection level at 10 kA		1.4 kV	1.0 kV	0.7 kV
Voltage protection rating	Vpr	1,500 V	1,000 V	700 V
Short-circuit current rating	Sccr	100,000 A	100,000 A	100,000 A
Associated Disconnection Devices				
Thermal disconnector		Internal		
Fuses		Fuses type gG - 100 A max. (see Note 1)		
Installation ground fault breaker		Type «S» or delayed		
Mechanical Characteristics				
Dimensions		See diagram		
Connection		By screw terminals : 4-25 mm² / by bus		
Disconnection indicator		2 mechanical indicators by pole		
Remote signaling of disconnection		Option DS70RS - output on changeover contact		
Mounting		Symmetrical rail 35 mm		
Operating temperature		-40/+85 °C		
Protection class		IP20		
Housing material		Thermoplastic UL94-V0		
Standards Compliance				
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		
UL 1449 3rd Edition: USA		Type 4, for use in Type 2 Locations		
Part number				
DS71RS-400		321411		
DS71RS-230		321711		
DS71RS-120		321611		

Note 1: Rating in compliance with NF C15-100 art.534.1.3.5. In order to increase service continuity, higher rating can be used (up to 160 A). For further information, please consult product instructions.



Type 2 Multi-Pole AC Surge Protectors

DS72R, DS73R, DS74R

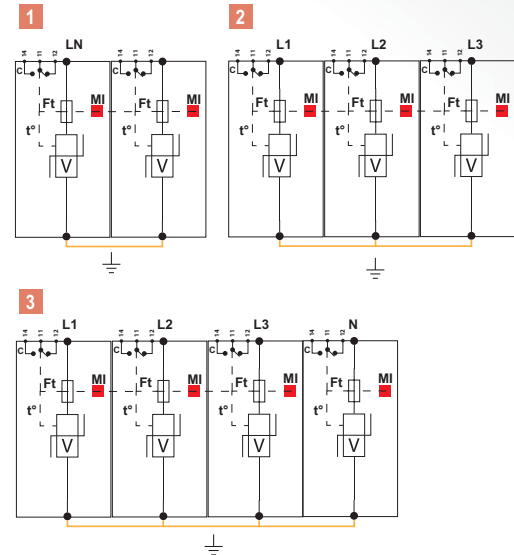
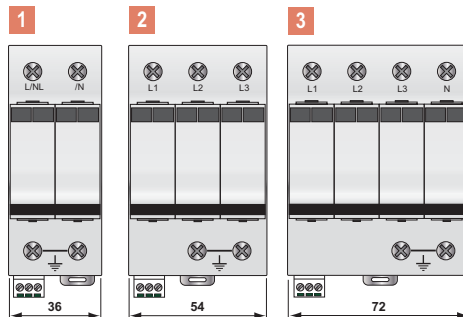
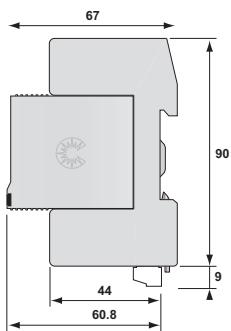


DS74R-230

DS7xRS-xxx/G

- «x» = CT1 Configuration (common mode)
- «G» = CT2 (common and differential mode)
- Operating voltage (120, 230, 400, 600)
- «S» = Remote signal option
- «R» = Reinforced varistor technology
- Number of protected poles (2, 3, 4)

Dimensions and Electrical Diagrams



References	Part Number	Network	AC System	Protection Mode		Imax Total	Up L/PE	Diagram
				Common	Differential			
DS74RS-400	491422	277/480 V 3-phase+N	Wye	●		280 kA	1.8 kV	3
DS74RS-230	491522	230/400 V 3-phase+N	Wye	●		280 kA	1.4 kV	
DS74RS-120	491622	120/208 V 3-phase+N	Wye	●		280 kA	1 kV	
DS73RS-600	321523	480-600 V 3-phase	Delta	●		210 kA	1.8 kV	2
DS73RS-230	491523	240 V 3-phase	Delta	●		210 kA	1.4 kV	
DS73RS-120	491623	120/240 V 3-phase	Split phase	●		210 kA	1 kV	
DS72RS-400	491421	277 V Single phase	Single/Split phase	●		140 kA	1.8 kV	1
DS72RS-230	491521	230 V Single phase	Single/Split phase	●		140 kA	1.4 kV	
DS72RS-120	491621	120 V Single phase	Single/Split phase	●		140 kA	1 kV	