Single- and 3-phase AC surge protector

DS40



DS40 surge protectors are used mainly for primary protection of single- and three-phase networks at the main electrical panel. They provide common-mode protection (between the active conductors and ground) and are available in one-phase, single-phase, three-phase, and three-phase+neutral versions and with a remote signalling option (DS4*S).

The DS40 is built with a plug-in module and a fixed base, which allows a easy and fast maintenance.

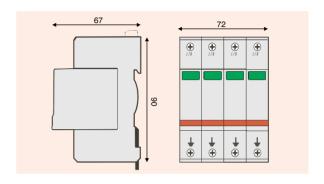
- Primary surge protector
- Discharge currents: In: 15kA/Imax: 40 kA
- Individual pluggable module for each phase
- Remote signaling option

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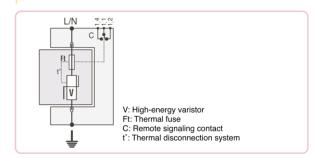
DS42-230	Single phase (L/N)
DS44-230	3-phase + Neutral (3 L/N)
DS42S-230	Single phase + remote signaling
DS44S-230	3-phase + remote signaling
DSM40-230	Plug-in 230V module
DSB1	Base for DSM40/DSM10 module
DSB1-S	Base with remote signaling

(*) Exhaustive list on page D5

Dimensions (in mm)



Electrical diagram



Characteristics

CITEL part number		DS40-400	DS40-230	DS40-120	
Type of network		230/400V	230/400V	120/208V	
Neutral configuration		TT-TN-IT	TT-TN	TT-TN	
Nominal voltage*	Un	400 V rms	230 V rms	120 V rms	
Max. operating voltage	Uc	440 V rms	250 V rms	150 V rms	
Operating current leakage current at Un	lc	< 1 mA	< 1 mA	< 1 mA	
Nominal discharge current 20 x 8/20μs impulses	ln	15 kA	15 kA	15 kA	
Maximum discharge current 1 x 8/20μs impulse	lmax	40 kA	40 kA	40 kA	
Protection level residual voltage at In	Up	2 kV	1,5 kV	0,9 kV	
Admissible short-circuit cur	rent lcc	25000 A	25000 A	25000 A	
Associated disconnection devices					
Thermal disconnector		Internal			
Fuses or circuit-breaker		Type gG fuse, 14x51, 50A			
		C-curve HBC circuit-breaker, 40A			
Installation ground fault breaker		Type "S" or delayed			
Mechanical characteristics					
Dimensions		see diagram			
Connection		- by screw terminals, 4 to 25mm ²			
		- by connection bus			
Disconnection indicator		Mechanical indicator			
Remote signaling of disconnection		Option (DS4*S)			
Mounting		Symmetrical rail (EN50022/DIN46277-3)			
Operating temperature		-40/+85 °C			
Housing material		Polycarbonate UL94V0			
Standards compliance	Standards compliance				
IEC 61643-11 International		Low voltage SPD (Test Class II)			
NFC 61740	France	Parafoudre Basse Tension			
VDE 0675-6	Germany	Uberspannungableiter (class C)			

* Other Uc voltages: 600 V - 480 V - 320 V - 280 V