

Type 2 AC Surge Protector DS40 series

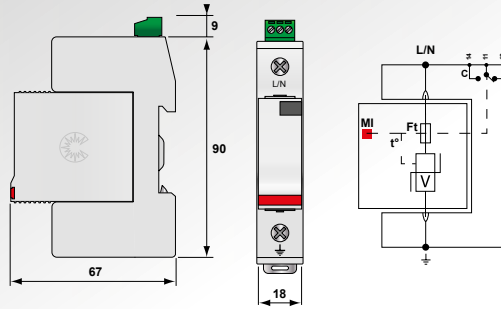


CITEL

**Imax
40 kA**



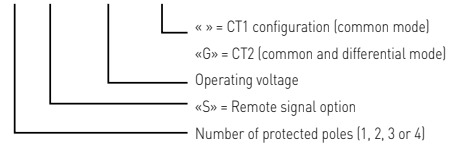
DS41-230



V: High-energy varistor
Ft: Thermal fuse
C: Remote signaling contact
t°: Thermal disconnection system
Mi : Disconnection indicator

- Type 2 AC Surge Protector
- In : 20 kA
- Imax : 40 kA
- Pluggable module for each phase
- Remote signaling option
- IEC 61643-11 and EN 61643-11 compliance
- UL1449 ed.4
- Numerous operating voltages

DS4x S-xxx/G



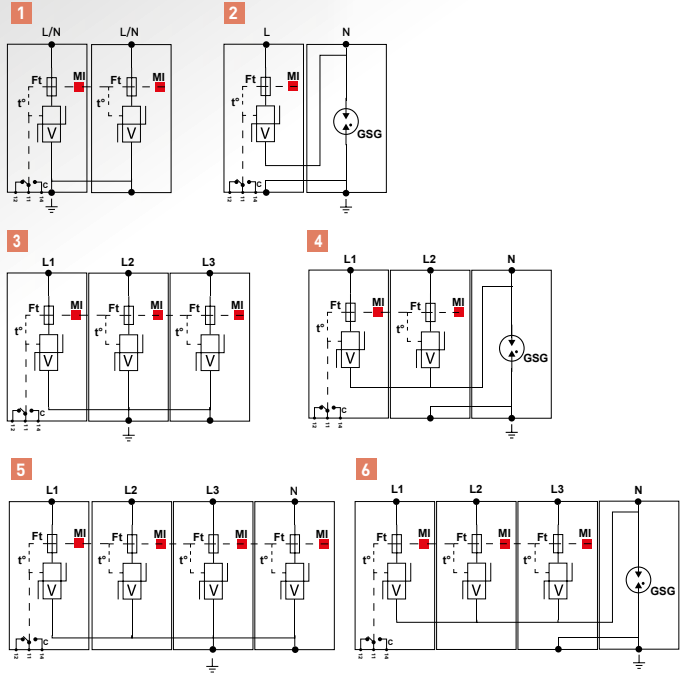
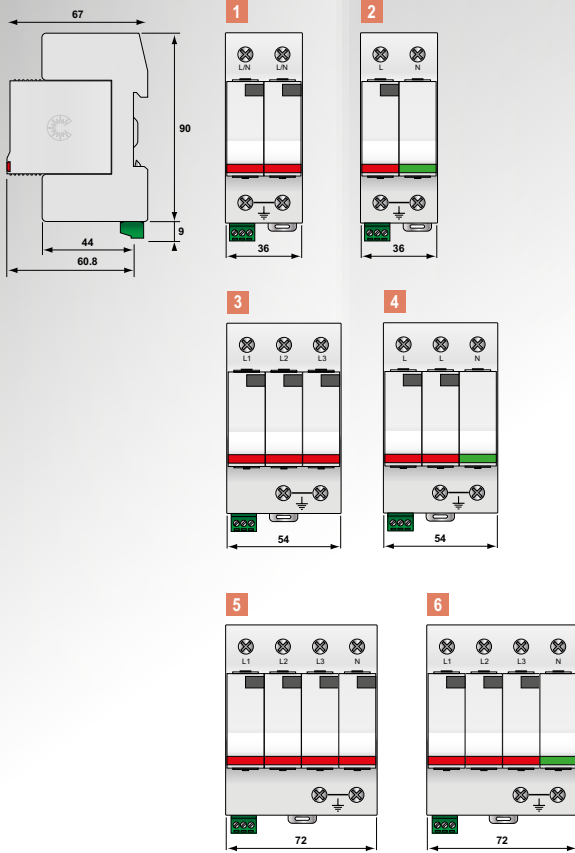
Characteristics

CITEL Model	DS41-690	DS41-600	DS41-480	DS41-400	DS41-385	DS41-320	DS41-280	DS41-230	DS41-120	
Description	Type 2 AC surge protector - one-phase - pluggable									
Max. AC operating voltage	Uc 760 Vac	660 Vac	530 Vac	440 Vac	385 Vac	320 Vac	280 Vac	255 Vac	150 Vac	
Temporary Over Voltage (TOV) Characteristics - 5 sec.	UT 1000 Vac	870 Vac	700 Vac	580 Vac	335 Vac	335 Vac	335 Vac	335 Vac	180 Vac	
Temporary Over Voltage (TOV) Characteristics - 120 mn	UT 1325 Vac	1150 Vac	920 Vac	770 Vac	440 Vac	440 Vac	440 Vac	440 Vac	230 Vac	
Residual current - Leakage current at Uc	Ipe < 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	
Follow current	If None	None	None	None	None	None	None	None	None	
Nominal discharge current - 15 x 8/20 µs impulses	In 20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	
Max. discharge current - max. withstand @ 8/20 µs by pole	Imax 40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	
Protection level	Up 3.5 kV	3.2 kV	2.5 kV	1.8 kV	1.8kV	1.5 kV	1.3 kV	1.25 kV	0.9 kV	
Admissible short-circuit current	Iscrr 25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	
Associated disconnectors										
Thermal disconnector	internal									
Fuses	Fuses Type gG - 50 A*									
Installation ground fault breaker	Type "S" or delayed									
Mechanical characteristics										
Dimensions	see diagram									
Connection to Network	By screw terminals: 2.5-25 mm ² / by bus									
Disconnection indicator	1 mechanical indicator									
Remote signaling of disconnection	option DS41S-690 : output on changeover contact	option DS41S-600 : output on changeover contact	option DS41S-480 : output on changeover contact	option DS41S-400 : output on changeover contact	option DS41S-385 : output on changeover contact	option DS41S-320 : output on changeover contact	option DS41S-280 : output on changeover contact	option DS41S-230 : output on changeover contact	option DS41S-120 : output on changeover contact	
Spare unit	DSM40-690	DSM40-600	DSM40-480	DSM40-400	DSM40-385	DSM40-320	DSM40-280	DSM40-230	DSM40-120	
Mounting	Symmetrical rail 35 mm (EN60715)									
Operating temperature	-40/+85°C									
Protection rating	IP20									
Housing material	Thermoplastic UL94-V0									
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.4									
Certification	UL / CSA / EAC / TUV	UL / CSA / EAC	UL / CSA / EAC	UL / CSA / EAC / TUV	EAC	UL/CSA/EAC	UL / CSA / EAC	UL / CSA / EAC / TUV	UL / CSA / EAC	
Part number	331801	331501	331001	3314011	331201	331901	3311011	3317011	3316011	



* Note: Rating in compliance with NF C15-100 art.534.1.5.3. In order to increase service continuity, higher rating can be used. For further information, please consult product instructions..

Type 2 Multipolar Surge Protector DS42, DS43, DS44



V : High-energy varistor
 GSG : Specific gas tube
 Ft : Thermal fuse
 C : Remote signaling contact
 t° : Thermal disconnection system
 MI : Disconnection indicator



DS44-230/G

Model	P/N	Network	AC system	Protection Mode	Itotal	Up L/PE	Up L/N	Up N/PE	Diagram
DS44-400/G	461412	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.8kV	1.5 kV	6
DS44-385/G	421212	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.8 kV	1.5 kV	
DS44-320/G	461912	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.5 kV	1.5 kV	
DS44-280/G	461112	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.3 kV	1.5 kV	
DS44-230/G	461512	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.25 kV	1.5 kV	
DS44-120/G	461612	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	0.9 kV	1.5 kV	
DS44-400	461402	230/400 V 3-phase+N	IT	L/PE and N/PE	160 kA	1.8 kV	-	1.8 kV	5
DS44-385	421202	230/400 V 3-phase+N	TNS	L/PE and N/PE	160 kA	1.8 kV	-	1.8 kV	
DS44-320	461902	230/400 V 3-phase+N	TNS	L/PE and N/PE	160 kA	1.5 kV	-	1.5 kV	
DS44-280	461102	230/400 V 3-phase+N	TNS	L/PE and N/PE	160 kA	1.3 kV	-	1.3 kV	
DS44-230	461502	230/400 V 3-phase+N	TNS	L/PE and N/PE	160 kA	1.25 kV	-	1.25 kV	
DS44-120	461602	120/208 V 3-phase+N	TNS	L/PE and N/PE	160 kA	0.9 kV	-	0.9 kV	
DS43-120/G	-	120/208 V 2-phase+N	TNS	L/N and N/PE	40 kA	-	0.9 kV	1.5 kV	4
DS43-400	461403	230/400 V 3-phase	IT	L/PE	120 kA	1.8 kV	-	-	3
DS43-385	421203	230/400 V 3-phase	TNC	L/PE	120 kA	1.8 kV	-	-	
DS43-320	461903	230/400 V 3-phase	TNC	L/PE	120 kA	1.5 kV	-	-	
DS43-280	461103	230/400 V 3-phase	TNC	L/PE	120 kA	1.3 kV	-	-	
DS43-230	461503	230/400 V 3-phase	TNC	L/PE	120 kA	1.25 kV	-	-	
DS43-120	461603	120/208 V 3-phase	TNC	L/PE	120 kA	0.9 kV	-	-	
DS42-385/G	421211	230 V single phase	TT-TN	L/N and N/PE	40 kA	-	1.8 kV	1.5 kV	2
DS42-320/G	461911	230 V single phase	TT-TN	L/N and N/PE	40 kA	-	1.5 kV	1.5 kV	
DS42-280/G	461111	230 V single phase	TT-TN	L/N and N/PE	40 kA	-	1.3 kV	1.5 kV	
DS42-230/G	461511	230 V single phase	TT-TN	L/N and N/PE	40 kA	-	1.25 kV	1.5 kV	
DS42-120/G	461611	120 V single phase	TT-TN	L/N and N/PE	40 kA	-	0.9 kV	1.5 kV	
DS42-400	461401	230 V single phase	IT	L/PE and N/PE	80 kA	1.8 kV	-	1.8 kV	
DS42-385	-	230 V single phase	TN	L/PE and N/PE	80 kA	1.8 kV	-	1.8 kV	1
DS42-320	461901	230 V single phase	TN	L/PE and N/PE	80 kA	1.5 kV	-	1.5 kV	
DS42-280	461102	230 V single phase	TN	L/PE and N/PE	80 kA	1.3 kV	-	1.3 kV	
DS42-230	461501	230 V single phase	TN	L/PE and N/PE	80 kA	1.25 kV	-	1.25 kV	
DS42-120	461601	120 V single phase	TN	L/PE and N/PE	80 kA	0.9 kV	-	0.9 kV	