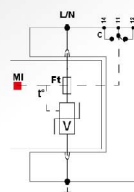
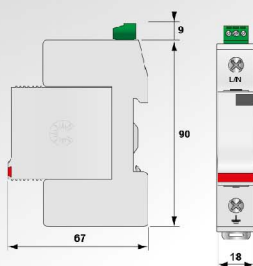




Data Sheet

Type 2 AC Surge Protector
DS40 series

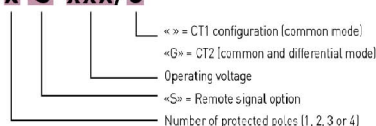
DS41-230



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
- I_{max} : 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

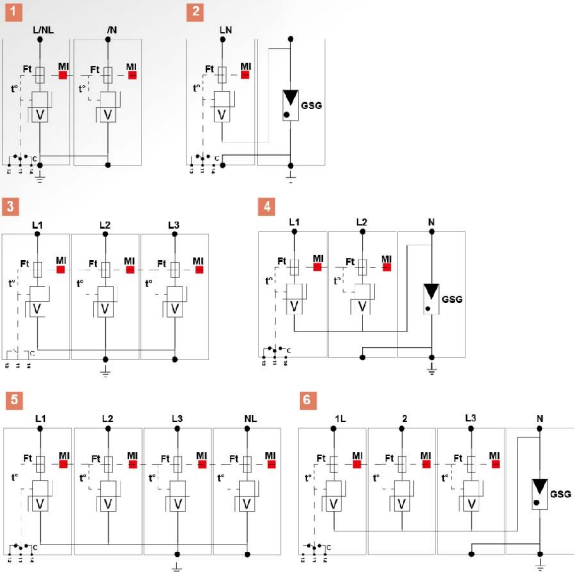
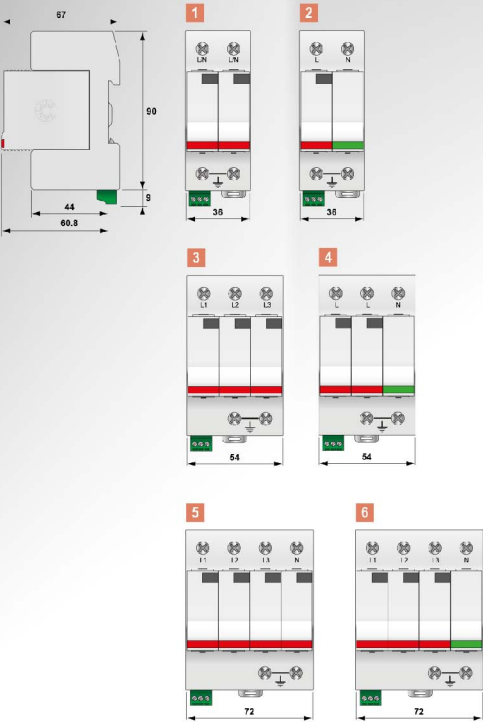
CITEL Model		DS41-690	DS41-600	DS41-480	DS41-400	DS41-385	DS41-320	DS41-280	DS41-230	DS41-120
Description		Type 2 AC surge protector - one-phase - pluggable								
Max. AC operating voltage	Uc	760 Vac	660 Vac	530 Vac	440 Vac	385 Vac	320 Vac	280 Vac	255 Vac	150 Vac
Temporary Over Voltage (TOV) Characteristics - 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 min	UT	withstand 1325 Vac	withstand 1150 Vac	withstand 920 Vac	withstand 770 Vac	withstand 440 Vac	withstand 440 Vac	withstand 440 Vac	withstand 440 Vac	withstand 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	I _{max}	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	I _{scrr}	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 mm² / 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.534.1.3.3. In order to increase service continuity, higher rating can be used. For further information, please consult product instructions..

Data Sheet

Type 2 Multipolar Surge Protector
DS42, DS43, DS44



V: High-energy varistor
GSG: Specific gas tube
Ft: Thermal fuse
D: 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
DS44-385/G	421212	230/400 V 3-phase+N	TT-TNS	L/N and N/PE	40 kA	-	1.8 kV	1.5 kV	6
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	
DS44-385	421202	230/400 V 3-phase+N	TNS	L/PE and N/PE	160 kA	1.8 kV	-	1.8 kV	5
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	