Surge Protection Devices
For protection of equipment against Lightning and Switching surges

- Standard: IEC 61643-11 / EN 61643-11
- Type 1, Type 2 and Photovoltaic surge protection
- With Remote signaling contact
- Integrated SPD health indicator

Type 1: Lightning Surge Arresters

- Maximum continuous operating voltage Uc: 350V



Reference No.	Rated voltage	Pole	Module width	Total I_{imp} (10/350µs)	I_{max} (8/20µs)	Remote status	Unit LP* ₹
5SD74121RC	240V AC	1P+N	4	50kA	50kA	Yes	**27465.-**
5SD74141RC	240/415V AC	3P+N	8	100kA	50kA	Yes	**53460.-**

Type 2: Surge Arresters



Reference No.	Rated voltage	Pole	Module width	U_C	I_{max} (8/20µs)	Remote status	Unit LP* ₹
5SD74610RC	240V AC	1P	1	335V AC	20kA	No	**4490.-**
5SD74640RC	240/415V AC	3P+N	4	335V AC	40kA	No	**13350.-**

Surge Arresters for Photovoltaic application

On the DC side, over voltage protection is required for the inverters which can be ensured by using 5SD74836RC.
On the AC side, the over voltage protection can be ensured using surge arresters Type 2 (5SD7461-0RC/5SD7464-0RC)



Reference No.	Rated voltage	Pole	Module width	U_{cpv}	I_{max} (8/20µs)	Remote status	Unit LP* ₹
5SD74836RC	1170V DC	L+ and L-	3	1170V DC	40kA	No	**7585.-**

Note: Standard packing: 1unit
*LP: List Price



Type 1: Lightning Surge Arresters

For TN-S/ TT system

Lightning arresters, Type 1 requirement class B, U_C 350V Pluggable protective modules 4-pole, 3+1 circuit for TN-S and TT systems with remote display


5SD74121


5SD74141

Rated voltage U_N	Backup fuse rating	Protection level	Lightening impulse current I_{mp}(10/350µs)		Pole	Reference No.	Unit LP* ₹
			L-N or L-(PE), 1P/3P	N-PE			
240V AC	125A gL/gG	1.5-2.5kV	25kA	100kA	1P+N	**5SD74121**	**98880.-**
240/415V AC	125A gL/gG	1.5-2.5kV	25kA/75kA	100kA	3P+N	**5SD74141**	**167735.-**

For TN-C system

Lightning arresters, Type 1 requirement class B, U_C 350V Pluggable protective modules 3-pole, 3+0 circuit for TNC systems with remote display


5SD74131

Rated voltage U_N	Backup fuse rating	Protection level	Lightening impulse current I_{mp}(10/350µs)		Pole	Reference No.	Unit LP* ₹
			L-N or L-(PE), 1P/3P	N-PE			
240/415V AC	125A gL/gG	≤1.5kV	25kA/75kA	-	3P	**5SD74131**	**131215.-**

Type 2 : Surge Arresters

For TN-S/ TT system

Surge arrester Type 2 requirement class C, U_C:350V/260V (L-N/N-PE) Pluggable protective modules 4-pole, 3+1 circuit for TN-S and TT AC systems

Rated Discharge Surge Current In=20kA SC capacity with backup fuse=25kA


5SD74641


5SD7422-0

Rated voltage U_N	Backup fuse rating	Protection level U_p	Rated discharge current I_n (8/20usec)		Pole	Remote signaling	Reference No.	Unit LP* ₹
			L-N or L-(PE), 1P/3P	N-PE				
240/415V	80A gL/gG	1.5-1.9kV	40kA	40kA	3P+N	No	**5SD74640**	**51985.-**
240/415V	80A gL/gG	1.5-1.9kV	40kA	40kA	3P+N	Yes	**5SD74641**	**38355.-**
240V	80A gL/gG	1.5-1.9kV	20kA	20kA	1P+N	No	**5SD74220**	**30140.-**
240V	80A gL/gG	1.5-1.9kV	20kA	20kA	1P+N	Yes	**5SD74221**	**33275.-**

For TN-C system

Surge arrester Type 2 requirement class C, U_C:350V
Pluggable protective modules 3-pole, 3+0 circuit for TNC systems


5SD7463-0

Rated voltage U_N	Backup fuse rating	Protection level U_p	Maximum discharge surge current I_{max} L-N or L-(PE)N, 1P	Pole	Remote signaling	Reference No.	Unit LP* ₹
240/415V	80A gL/gG	≤1.5kV	40kA	3P	No	**5SD74630**	**44460.-**
240/415V	80A gL/gG	≤1.5kV	40kA	3P	Yes	**5SD74631**	**46495.-**

L - Line, N - Neutral, PE - Protective Earth

Note: Standard packing: 1unit * LP : List Price

Type 3 : Surge Arresters

	Rated voltage	Rated current	Protection level	Rated discharge current	Pole	Reference No.	Unit LP* ₹
	24V AC 34V DC	26A	0.65kV	1kA	2P	**5SD74325**	**21075.-**
	120V AC 150V DC	26A	0.95kV	3kA	2P	**5SD74326**	**22965.-**
	240V AC 240V DC	26A	1.5kV	3kA	2P	**5SD74327**	**23580.-**

Surge arresters for photovoltaic application

Due to the combination of three power varistors, the overvoltage protection required for the inverters is implemented on the DC side. On the AC side, the overvoltage protection can be ensured using surge arresters type 2 (5SD7422-/5SD7424-)

	Rated voltage U_N	Rated discharge current	Protection level U_p	Lightning Impulse current (L-N/L-(PE)N)	Max. discharge current	Pole	Remote signaling	Reference No.	Unit LP* ₹
 5SD74836	1000V DC	15kA	≤3.5kV	≤5kA	40kA	3P	No	**5SD74836**	**7585.-**

Replacement Plug



SPD Type	Type	Connection	Reference No.	Unit LP* ₹
5SD74121 5SD74131 5SD74141	Type 1	L-N	**5SD74181**	**36995.-**
5SD74121 5SD74131 5SD74141		N-PE	**5SD74180**	**38775.-**
5SD7463-0/1 5SD7464-0/1	Type 2	L-N	**5SD74681**	**10865.-**
5SD7464-0/1		N-PE	**5SD74880**	**13625.-**
5SD7422-0/1		L-N	**5SD74281**	**10865.-**
5SD7422-0/1		N-PE	**5SD74280**	**14145.-**
5SD7483-6	PV	-	**5SD74983**	**11205.-**

* Also available Type 1+ Type 2 and Type1/2 Compact SPDs for protection against overvoltages from Lightning strikes as well as by switching operations in network

Note:
Standard packing: 1unit
* LP - List Price