

Surge Protection Devices

Protection against over-voltages is the subject of BS 7671, the amendments in the 18th edition of wiring regulations calls for the retrofitting of Surge protection devices in many installations.

Note that installation of a Surge protection alone does not necessarily ensure compliance with BS 7671. The electrical specifier should use their judgement, consulting BS 7671 and the BS EN 62305 series (protection against lightning) to determine selection of surge protection devices



Type 1 – Surge protection which can discharge partial lightning current. Suited for location at the origin of potential surges.

Type 2 – Surge protection which can prevent the spread of over-voltages in electrical installations and protects equipment connected to it. Suited for location next to the protected equipment.

kA per Pole	Ordering Reference			Dimensions (mm) <small>*see inner front cover for reference diagram</small>				
	Basic	+ Volt Free Contacts	+ Volt Free Contacts & Over Current Protection	H	W	D	A	B
Type 2 - IP41 Sheet Steel Enclosed								
10	ST-SA T2	ST-SA T2+VF	ST-SA T2+OCP	305	135	60	35 cage	107
Type 2 - IP55 Plastic Enclosed								
10	I-SA T2	I-SA T2+VF	I-SA T2+OCP	175	83	111	35 cage	42
Type 2 - Panel Mounting								
10	SA T2	SA T2+VF	SA T2+OCP	-	-	-	35 cage	-
Type 1+2 - IP41 Sheet Steel Enclosed								
12.5	ST-SA T1+2/12.5	ST-SA T1+2/12.5+VF	-	305	135	60	35 cage	107
25	ST-SA T1+2/25	ST-SA T1+2/25+VF	ST-SA T1+2/25+OCP	400	200	80	50 cage	125
Type 1+2 - IP55 Plastic Enclosed								
12.5	I-SA T1+2/12.5	I-SA T1+2/12.5+VF	-	175	83	111	35 cage	42
25	I-SA T1+2/25	I-SA T1+2/25+VF	-	175	125	111	50 cage	42
25	-	-	I-SA T1+2/25+OCP	425	325	180	50 cage	137
Type 1+2 - Panel Mounting								
12.5	SA T1+2/12.5	SA T1+2/12.5+VF	-	-	-	-	35 cage	-
25	SA T1+2/25	SA T1+2/25+VF	SA T1+2/25+OCP	-	-	-	50 cage	-

*All devices, other than those with built in over current protection, must be connected to the network via an overload device such as an MCB or MCCB. Higher rated protection will allow the surge arrester to perform at its optimum potential.