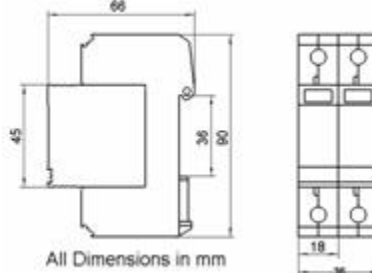
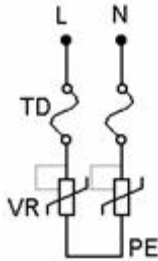


# Single Phase SPDs HIT-DS40 Series SPECIFICATION

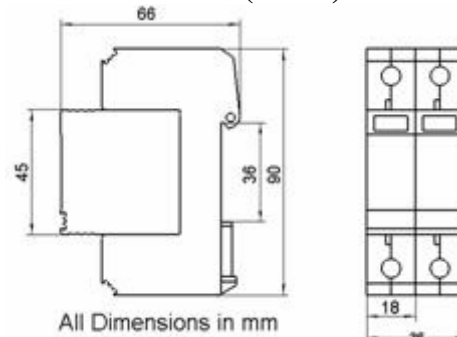
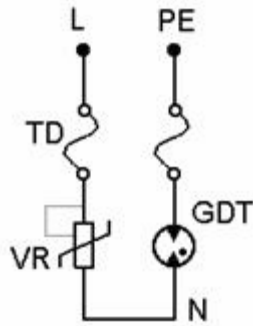
## 1. DS40/xxx – 2V Series



### Technical Data

Type		HIT- DS40/xxx-2V									
		75	150	175	275	300	320	385	440	550	600
In accordance with		IEC61643-1:2001; EN61643-1 2002; UL1449 ed.2									
Category IEC/VDE		□ / C									
Max. continuous operating voltage (AC/DC)		75/100	150/200	175/225	275/300	300/385	320/420	385/505	440/585	550/745	600/800
Nominal discharge current(8/20) In	L – N	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA
	N-PE	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA
Max. discharge current(8/20) I <sub>max</sub>	L - N	40KA									
	N - PE	40KA									
Voltage protection level	@ In	0.5KV	0.8KV	0.8KV	1.4KV	1.5KV	1.6KV	1.8KV	2.2KV	2.8KV	3.0KV
	@ 3KA	0.3KV	0.5KV	0.6KV	1.0KV	1.0KV	1.1KV	1.3KV	1.5KV	2.0KV	2.0KV
Response time	L - N	≤25 ns									
	N - PE	≤25 ns									
Follow current	L - N	No									
	N - PE	No									
Residual current at U <sub>c</sub>	L - N	≤500μA									
	N - PE	≤500μA									
Backup fuse(only required if not already provided in mains)		125A gL/gG									
Operating temperature range		- 40°C ... + 80°C									
Cross-section of connection wire		Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>									
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3									
Enclosure material		thermoplastic; extinguishing degree UL94 V-0									
Degree of protection		IP20									
Installation width		2 modules, DIN 43880									
Thermal disconnect		Internal green – normal red - failure									
Remote alarm contact		Optional									

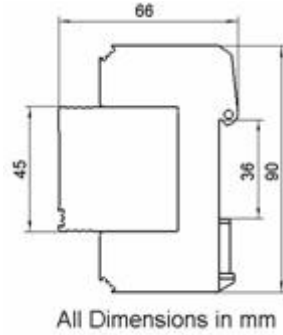
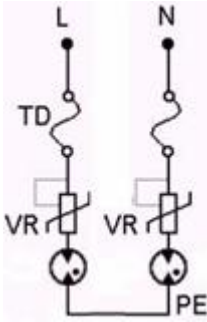
**2. DS40 / xxx – (V + T) Series**



**Technical Data**

Type		HIT- DS40/xxx-(V+T)									
		75	150	175	275	300	320	385	440	550	600
In accordance with		IEC61643-1:2001; EN61643-1 2002; UL1449 ed.2									
Category IEC/VDE		□ / C									
Max. continuous operating voltage	L – N (AC/DC)	75/100	150/200	175/225	275/300	300/385	320/420	385/505	440/585	550/745	600/800
	N – PE Uc	65	150	150	255	255	255	255	350	440	440
Nominal discharge current(8/20) In	L – N	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA
	N-PE	40KA	40KA	40KA	40KA	40KA	40KA	40KA	40KA	40KA	40KA
Max. discharge current(8/20) Imax	L - N	40KA									
	N - PE	60KA									
Voltage protection level at In	L – N (In)	0.5KV	0.8KV	0.8KV	1.4KV	1.5KV	1.6KV	1.8KV	2.2KV	2.8KV	3.0KV
	L – N (3KA)	0.3KV	0.5KV	0.6KV	1.0KV	1.0KV	1.1KV	1.3KV	1.5KV	2.0KV	2.0KV
	N-PE (1.2/50)	0.5KV	0.8KV	0.8KV	1.0KV	1.0KV	1.0KV	1.0KV	1.2KV	1.6KV	1.6KV
Response time	L - N	≤25 ns									
	N - PE	≤100 ns									
Follow current	L - N	No									
	N - PE	Yes									
Residual current at Uc	L - N	≤500µA									
	N - PE	No									
Backup fuse(only required if not already provided in mains)		125A gL/gG									
Operating temperature range		- 40°C ... + 80°C									
Cross-section of connection wire		Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>									
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3									
Enclosure material		thermoplastic; extinguishing degree UL94 V-0									
Degree of protection		IP20									
Installation width		2 modules, DIN 43880									
Thermal disconnector		Internal green – normal red - failure									
Remote alarm contact		Optional									

**3. DS40 / xxx – 2VT Series**



**Technical Data**

Type		HIT- DS40 / xxx- 2VT									
		75	150	175	275	300	320	385	440	550	600
In accordance with		IEC61643-1:2001; EN61643-1 2002; UL1449 ed.2									
Category IEC/VDE		□/ C									
Max. continuous operating voltage (AC/DC)		75/100	150/200	175/225	275/300	300/385	320/420	385/505	440/585	550/745	600/800
Nominal discharge current(8/20) In	L – N	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA
	N-PE	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA	20KA
Max. discharge current(8/20) I <sub>max</sub>	L - N	40KA									
	N - PE	40KA									
Voltage protection level	@ In	0.3KV	0.6KV	0.6KV	1.2KV	1.2KV	1.2KV	1.2KV	1.8KV	2.4KV	2.4KV
	@ 3KA	0.2KV	0.5KV	0.5KV	0.8KV	0.8KV	0.8KV	0.8KV	1.2KV	1.6KV	1.6KV
Response time	L - N	≤100 ns									
	N - PE	≤100 ns									
Follow current	L - N	No									
	N - PE	No									
Residual current at U <sub>c</sub>	L - N	No									
	N - PE	No									
Backup fuse(only required if not already provided in mains)		125A gL/gG									
Operating temperature range		- 40°C ... + 80°C									
Cross-section of connection wire		Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup>									
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3									
Enclosure material		thermoplastic; extinguishing degree UL94 V-0									
Degree of protection		IP20									
Installation width		2 modules, DIN 43880									
Thermal disconnect		Internal green – normal red - failure									
Remote alarm contact		Optional									