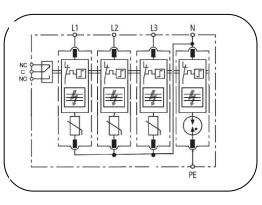


SURGE ARRESTERS - CLASS II

SP320/3PN-S





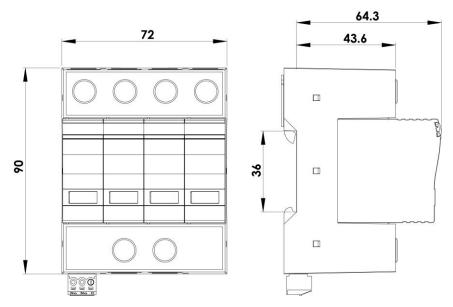
Basic circuit diagram

Class II/T2 surge protective device is designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

- > KEMA certified Class II/T2 SPD per IEC/EN 61643-11.
- UL certified Type 1ca SPD per UL1449 5th edition
- > Prewired "3+1" circuit application for three phases TT/TN system protection
- High surge current discharge capacity up to 40kA 8/20µs.
- > High reliability due to global patented thermally protected MOV with reliable arc-extinguish (TPAE) technology.
- Short circuit current rating up to 200kArms (UL1449 5th)
- > Pluggable module for easy replacement
- > Degradation indication and remote signal contact.
- > Comply with IEC/EN 61643-11, UL1449 5th, CSA C22.2 etc standards.

Dimension drawing

Unit: mm



POWER SUPPLY SYSTEM



Technical data

Model			SP320/3PN-S
In accordance with			IEC61643-11:2011; EN61643-11:2012;UL1449 5th
Category IEC/VDE/EN/UL			II/C/T2/Type1ca
Power system		Un	220/380VAC, 230/400VAC ,240/415V Three phase, 50/60Hz
Protection mode			L-N,N-PE
Max. continuous operating voltage	L-N	Uc MCOV	320Vac
	N-PE		255Vac
Nominal discharge current(8/20us)		In	20kA
Max. discharge current(8/20us)		Imax	40kA
Voltage protection level (IEC 61643-11)	L-N @In	Up	≤1.5kV
	N-PE@1.2/50		≤1.5kV
Voltage protection rating (UL1449)	L-N	VPR	≤1.2kV
	N-PE		≤0.9kV
Temporary overvoltage TOV	L-N	Utov	337V/5s, Withstand mode 442V/120min,Safe failure mode
	N-PE		1200V/200ms, Withstand mode
Residual current		lpe	<0.1mA
Follow current interrupt rating	N-PE	lfi	100Arms @ 255Vac
Short circuit withstand capability (IEC61643-11)		Isccr	25kArms
Short circuit current rating (UL1449)		SCCR	200kArms
Response time		tA	≤25 ns (L-N); ≤100 ns (N-PE);
Backup fuse(only required if not already provided in mains)			125A gL/gG
Operating temperature range			- 40°C ~ +70°C
Cross-section of connection wire			Single-strand 35mm ² ; multi-strand 25mm ²
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			4 module, DIN 43880
Failure indiacation/Status			Internal green – normal ; red - failure
Remote alarm contact			"-S" means with remote alarm contact
Approvals, Certifications			UL,KEMA,CE
Additional data for Remote Alarm Contacts			
Remote alarm contact type			Isolated Form C
Switching capability		Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Cross-section of connecting wire			Max. 1.5mm ² (or # 16AWG)

