

Intelligent Surge Protective Device (iSPD) iSPD/C320-4P-SCB

PROSURGE <u>iSPD/C320-4P-SCB</u> is an intelligent and auto self-protected SPD for three phase power systems. It's an innovative solution for most commercial and industrial environments with critical operations, to make your surge protection smart and intelligent.it is composed of two essential parts: surge protective device (SPD), and surge circuit breaker (SCB).



PROSURGE high performance SPDs (Class II per IEC 61643-11) of i<u>SPD/C320-4P-SCB</u> can protect sensitive equipment from the harmful transient voltage surges resulting from:

- Direct and indirect lightning strikes
- Power company load switching
- Upstream load switching at other facilities

PROSURGE SCB provides backup over-current protection for the SPD, which is fully coordinated with the surge protective device. Comparing to normal backup circuit breaker/fuse, the integrated PROSURGE SCB achieve a better balance between surge withstand performance (no tripping while expected surge occurs) and sharp reaction against short circuit and abnormal leakage current.

Typical Applications:

- Commercial
- Industrial
- Communications
- Renewable energy
- Critical power (hospitals, data centers, etc)
- Features:
 - High performance KEMA certified SPD inbuilt with Imax 40kA 8/20 and In 20kA 8/20 for Class II application, comply with IEC/EN 61643-1/11standards;
 - Pluggable module of SPD for easy replacement
 - Self protected by PROSUGE innovated Surge circuit breaker technology, SPD will never stop service in the life time and no fire risk while in the end of life
 - IP20 enclosure to resist dirt, dust and water



Model: iSPD/C320-4P-SCB

This model is composed of two essential parts: surge protective device (SPD) and surge circuit breaker (SCB). This product is pre-wired and easy to be installed as a completed unit, which is an upgraded design to replace the conventional installation assembly of the SPD and backup over-current protection devices.

PROSURGE SCB provides excellent backup over-current protection and fully coordinated with the SPD. Comparing to normal backup circuit breaker/fuse, the integrated PROSURGE SCB achieves a better balance between surge withstand performance (no tripping while expected surge occurs) and sharp reaction against short circuit and abnormal leakage current.

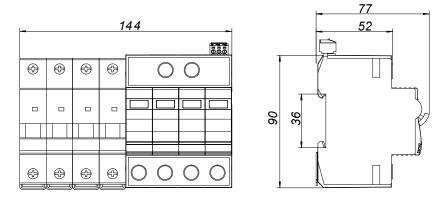
Technical Specification

		iSPD/C320-4P-SCB
SPD Specification		
SPD Category IEC/EN		Class II / T2
Power System		TT/TN 3ph
System Voltage	Un	220/380V ~ 240/415V
Max. Continuous Operating Voltage AC	Uc	320VAC
Nominal Discharge Current (8/20 $\mu s)$	In	20kA
Max. Discharge Current (8/20 μs)	Imax	40kA
Voltage Protection Level	Up	1.5kV
Residual Current	lpe	<0.1mA
TOV- Withstand Mode	Utov	L-N:337V/5s; N-PE:1200V/200ms
Short Circuit Current Rating	lsc	25kArms
Response Time	Та	≤25 ns
Thermal Disconnector / Indication		Internal red - failure
SCB Specification		
Operating Short-Circuit Breaking Capacity	lcs	≥10kA
Trip Current	lt	3±1A
Trip Time	Tt	≤40ms
Surge Withstand Capability	lwt	Match with SPD Max. Surge current
General Parameters		
Connection		Connection in parallel
Connecting Cable		Power line:10-35mm ² ; Remote signal:1.5mm2
Operation Temperature Range		-40℃~+70℃
Humidity		30%~90%
Degree Of Protection		IP20
Housing Material		UL94V0
Mounting		Wall mounting
Dimension (mm)		Refer to dimension drawing as below

INTELLIGENT SPDs



Dimensions (unit: mm)



Tolerance without ±2 mm

iSPD-SCB T2/Class II for three phase (TT/TN)

Typical Installation Diagram

