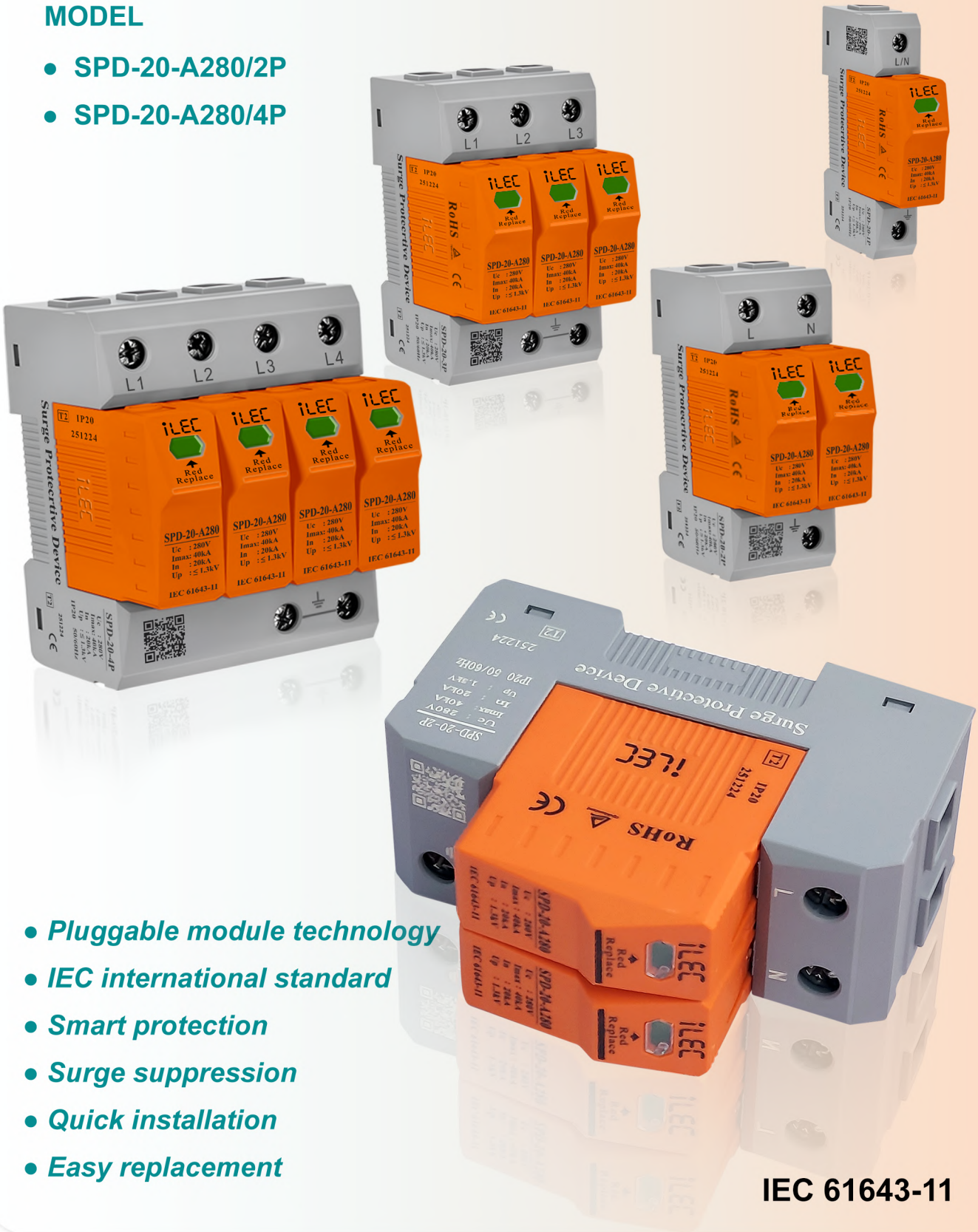
PRODUCT CATALOGUE

SURGE PROTECTOR

MODEL

- SPD-20-A280/2P
- SPD-20-A280/4P



- *Pluggable module technology*
- *IEC international standard*
- *Smart protection*
- *Surge suppression*
- *Quick installation*
- *Easy replacement*

IEC 61643-11

Introduction

- A solution for protecting electrical and electronic systems (such as cameras, computers, and PLCs) from high-voltage surges and transient overvoltages caused by lightning strikes or sudden voltage spikes.
- The device operates by diverting excessive surge current safely to ground, helping protect equipment, prevent fire hazards, and improve system safety.

Device Classification

- *Type 1: Installed at the main distribution board to withstand direct lightning surge currents.*
- *Type 2: Installed at sub-distribution panels to protect equipment from transient surges and residual lightning effects.*
- *Type 3: Installed close to sensitive equipment (electronics, telecommunications devices, etc.) to suppress remaining low-level surge voltages.*

Description

- Compact, robust, and aesthetically designed with a plug-in modular structure, compliant with IEC 61643-11 standard.
- Made of high-quality engineering plastic, offering excellent durability, heat resistance, and flame-retardant performance.
- Front status indicator window for easy monitoring
(green: normal operation – red: replacement required).
- Helps suppress and limit transient overvoltage surges caused by lightning strikes or electrical switching operations.
- Provides reliable protection for control devices, electrical panels, machinery, and residential or industrial electrical systems.
- Quick DIN rail installation inside electrical panels, allowing easy maintenance and module replacement.

Struture:

- Surge Protection Module (SPD Module):
  Designed to absorb transient surge voltages caused by lightning or switching operations. Featuring a pluggable and replaceable design, the module can be quickly replaced at the end of its service life without disconnecting wiring from the base.

- Plug-in Base (SPD Base):
  Mounted directly onto a DIN rail inside the electrical panel, providing secure mechanical support and electrical connection for the SPD module.
  The base includes wiring terminals for 2P (L/N) or 4P (L1, L2, L3, N) configurations, along with a PE grounding terminal located at the bottom.

- Advantages:
  Quick replacement of damaged or end-of-life SPD modules without removing wiring inside the electrical panel.
  Reduced maintenance time and easier servicing.
  Wiring terminals available for L, N (2P) or L1, L2, L3, N (4P) connections.

PSD-20-A280/4P

PSD-20-A280/2P

SPD Module

Plugin base

Technical Specifications

- Model: SPD-20-A280/2P and SPD-20-A280/4P
- Type: Type 2
- Poles:
  - * 2P (L/N): for single-phase system
  - * 4P (L1/L2/L3/N): for three-phase system
- Max. Continuous Operating Voltage (Uc): 280V AC
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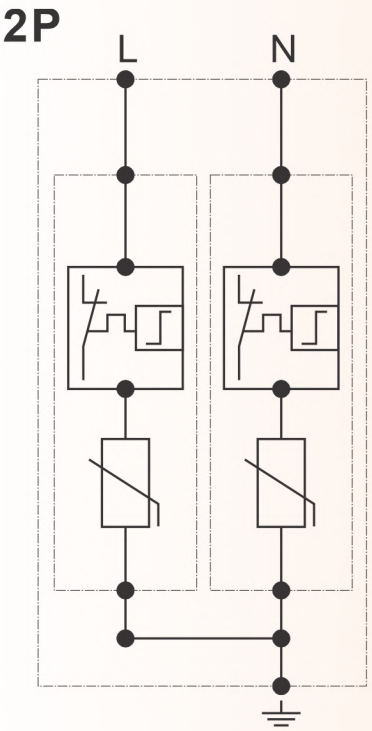
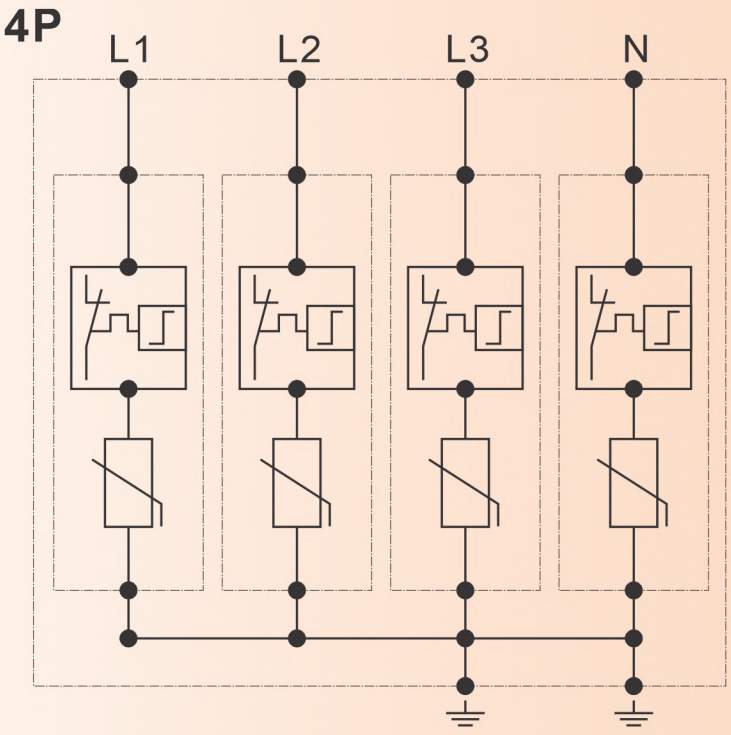
- Nominal Discharge Current (In): 20kA
- Maximum Discharge Current (Imax): 40kA
- Protection Voltage Level (Up): ≤ 1.3kV
- Frequency: 50/60Hz
- Protection degree: IP20
- Back-up fuse: 63A ~ 100A

Circuit diagram



SPD-20-A280/2P



SPD-20-A280/4P

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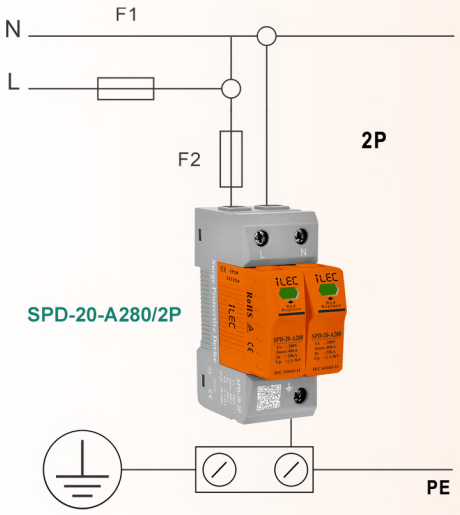
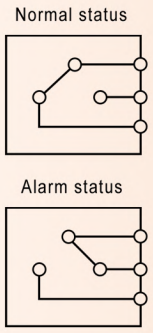
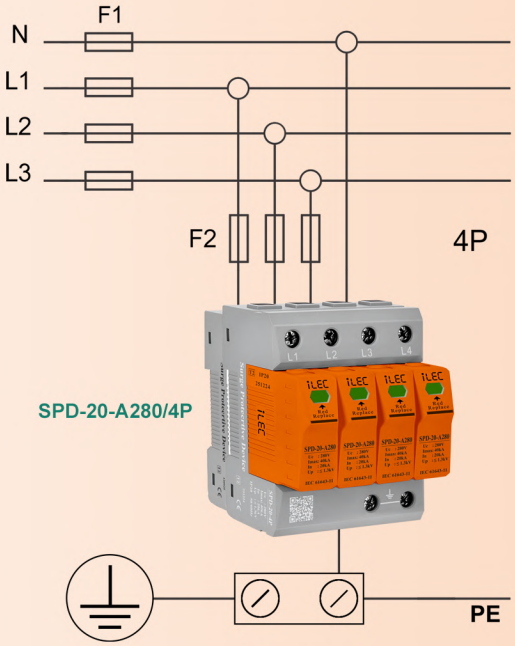
Wiring diagram



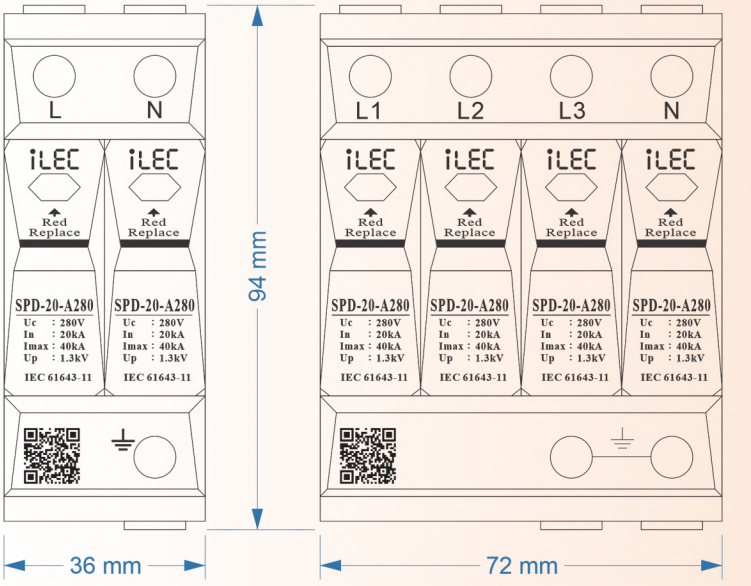
SPD-20-A280/2P



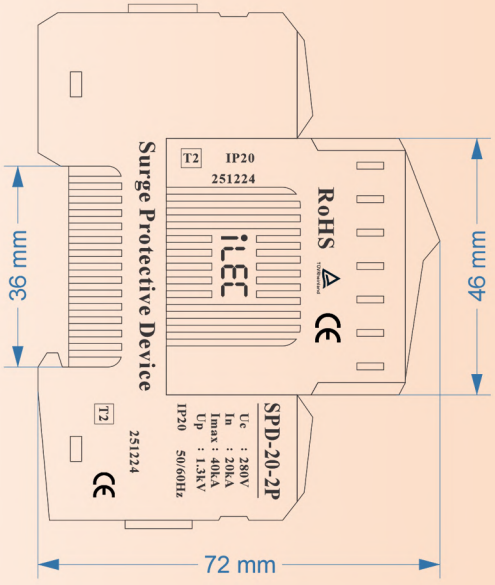


SPD-20-A280/4P

Dimensions



SPD-20-A280/2P SPD-20-A280/4P



Applications

- Protection for sensitive electronic equipment.
- Residential electrical panels and distribution boards (DB).
- Industrial control panels.
- Electrical systems in factories, offices, and commercial buildings

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