EXU7 Surge Protection Device (SPD)





Model and Meaning

EXU7-II 10 20 2P 275V YX

- YX: Accessories: Default: No remote signaling contact; YX: With remote signaling contact
- 275V: Maximum continuous operating voltage (Uc~): 275V, 320V, 385V
- 2P: Number of poles: 1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE
- 20: Maximum discharge current (Imax): 20kA, 40kA
- 10: Nominal discharge current (In): 10kA, 20kA
- EXU7-II: Product series

Product Overview

■ **Main Functions**

The EXU7 Series Surge Protective Devices (SPDs) are primarily designed for single-phase and three-phase AC power distribution systems operating at 50Hz/60Hz, with rated voltages of 230V/400V.They are used to suppress transient overvoltages, discharge surge energy, and prevent or minimize damage to electrical equipment caused by transient overvoltages resulting from lightning strikes or switching operations.

■ **Compliance with Standards**

IEC 61643-11

Product Features

- High-quality chips ensure stable and reliable performance.
- Visual status indicator for easy monitoring of device status.
- Modular design for easier installation and maintenance.
- Optional remote signaling alarm accessory enables remote monitoring of SPD status.

Main Specifications

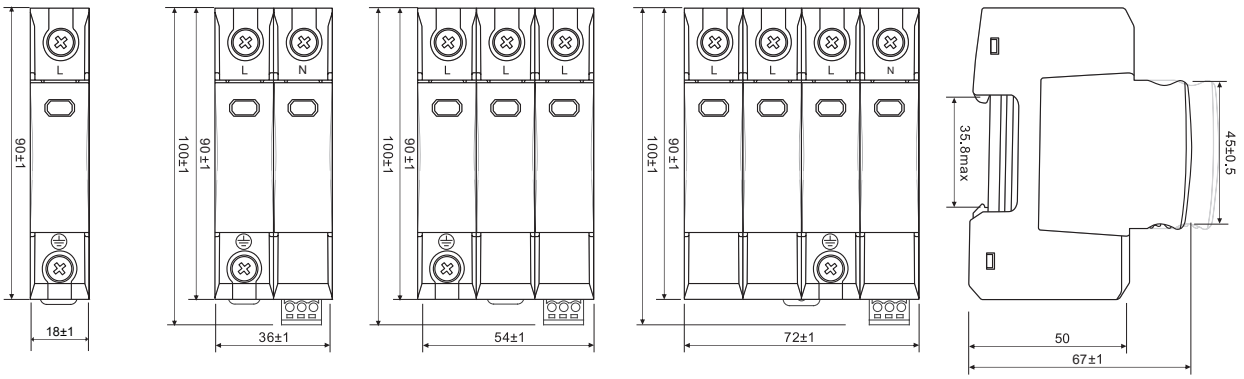
Parameter	Specification
Rated Operating Voltage (Un)	230V AC(Phase Voltage)
Number of Poles	1P/2P/3P/4P/1P+N/3P+N
Test Classification	T2 (Type 2)
Maximum Continuous Operating Voltage (Uc)	275/320/385V
Nominal Discharge Current (In)	10-20kA
Maximum Discharge Current (Imax)	20-40kA
Voltage Protection Level (Up)	1.2-1.8kV

Technical Specifications

Compliant Standards	IEC 61643-11	
Rated Voltage (Uh)	230 VAC (phase voltage)	
Number of Poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Model	EXU7-II	
Test Class	Class II (T2)	
Waveform (μs)	8/20 μs	
Nominal Discharge Current (In)	10kA	20kA
Maximum Discharge Current (Imax)	20kA	40kA
Maximum Continuous Operating Voltage (Ue)	275V/320V/385V	
Voltage Protection Level (Up) (kV)	1.2/1.4/1.5	1.5/1.7/1.8
Operating Status Indicator Window	Green: Normal; Red: Failed	
Recommended Backup Circuit Breaker	20A	40A
Recommended Backup Fuse (gL/gG)	50A	100A
Response Time	<25ns	
Remote Signaling Function	Configuration: 12 (Normally Open), 13 (Normally Closed)	
	In the event of a fault, terminal 12 (Normally Open) closes, and terminal 13 (Normally Closed) opens.	
Wiring Capacity	Solid wire ≤35mm^2, stranded wire 2.5–25mm^2; maximum tightening torque 3.5 N·m	
Degree of Protection (IP Rating)	IP20	

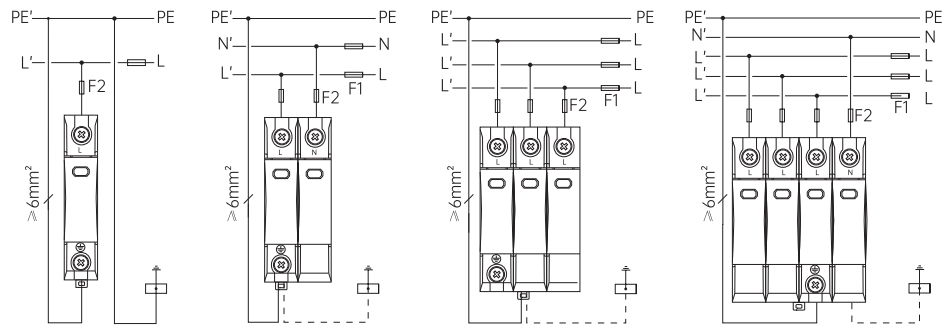
Overall and Mounting Dimensions

Dimensional Drawing

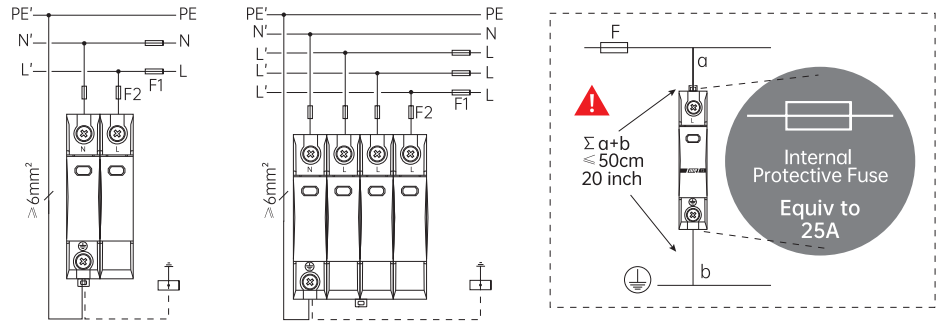


Standard Wiring

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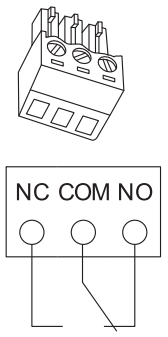


TN-S/TT



Wiring Diagram for Remote Signaling Function

Compliant with standard: IEC 61643-11



Main Specifications	
Remote Signaling (YX)	
Parameter	Specification
AC Operating Voltage/Current	250V AC,0.5Amax
DC Operating Voltage/Current	250V DC,0.1A max 125V DC,0.2Amax 24V DC,1A max
Contacts	One Normally Open (NO) Contact and One Normally Closed (NC) Contact
Function	When the SPD module fails or becomes disconnected, the normally open (NO) contact closes and the normally closed (NC) contact opens.
Terminal Connection Capacity	1.5 mm² (max)