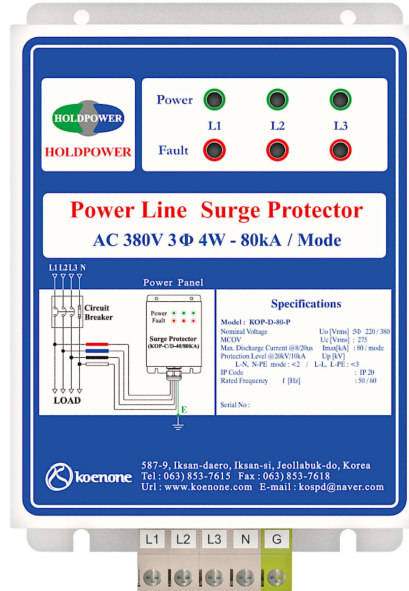


SPD Normal type



Power Line Normal-Type SPD



Specification

Product Features

Voltage	AC 460V / 440V / 380V / 220V / 110V DC 600V / 440V / 380V / 200V	<p>CE-certified product</p> <p>High-performance, High-capacity SPD [40kA - mode / 80kA - mode]</p> <p>Full mode protection [Line-Neutral, Line-Ground, Line-Line] - <For Class II, III></p> <p>Performance in compliance with KS C IEC standard</p> <p>Dual safety design [Current & Thermal fuse]</p> <p>Lamp and buzzer for normal or abnormal state check</p> <p>Steel case for proven safety against surge protector failure</p>
Type	3-Phase 4-Wire/3-Phase 3-Wire/ Single-Phase 2-Wire (Parallel)	
Capacity	40kA - mode / 80kA - mode	

Application

Distribution ACB 2nd Panel, Distribution 1st Panel, Distribution 2nd Panel, UPS input-output, Instrument power [Flowmeter, Water gauge, Electronic scale etc.], Actuator power, Other device power.

SPD Class II, III



Class II, III Surge Protector

SPD Class	Class II, III Surge Protector (Class II, III SPD)
Model	KOP-C-80P [Single-Phase 2-Wire, Parallel]
Application	[*LPZ2, *LPZ3] Power and earthing line lightning, Switching surge protection
Application Field	Distribution board, UPS, PLC, DCS, Flowmeter, Water gauge, CCTV, LED, Security Facility, Photovoltaic, and other single-phase power devices



Electrical property

Rated voltage	Un	220~260V AC [L-N]
Rated current		N/A
Power system configuration		Single-Phase 2-Wire, Parallel connection
Max Continuous Operating Voltage (MCOV)	Uc	275V AC [L-N], 480V AC [L-G, N-G]
Rated frequency	f	50 / 60 Hz
Leakage current (@Uc)	IL	Less than 1 mA
Insulation resistance (@500V DC)	RIN	Above 10 MΩ

Protection property

Protection mode		L-N	L-G	N-G
Voltage protection level [CE Class 2 test] <small>(In 40kA @ 8/20μs) - IEC 61643-11</small>	Up	≤ 2,500V	≤ 2,500V	≤ 2,500V
Max current capacity <small>80kA Mode (@Current 8/20μs) [Total : 240kA]</small>		80kA	80kA	80kA
Nominal discharge current <small>(@Current 8/20μs)</small>	In	40kA	40kA	40kA
Response time (@10kV/μs)	ta	Less than 5 ns		

Features

Operation status	Run = green lamp / Fault = red lamp [L-N, L-G, N-G]
Safety	Dual safety design [current & thermal fuse]

Mechanical property

Protection rating level	IP20 (@IEC 60529), NEMA1
Operating temperature and humidity	-40~ 90°C, ≤ 95%
Terminal	76A IEC type [Awg 6~24 / 0.5~10mm]
Size	(W)113 x (L)171 x (H)80 mm cf. p40 D-1
Installation	Bolt mounting
Weight	Less than 1.5kg

Test standard & Reference

IEC 61643-11 [2017] Performance and Test Criteria for Power Line Surge Protector
IEC 61643-12 [2017] Lightning Protection Zone 1,2,3
IEC 62305-1,2,3,4 [2017]
ANSI/IEEE Std C62.45 [2002] Guide to Surge Test for Low-pressure Device
ANSI/IEEE Std C62.41 [2002] Category A, B, C
IEEE Std C62.34 [2017] Power line surge protector performance standard
IEEE Std C62.62 [2018] Power line surge protector standard test specification

*LPZ : Lightning Protection Zone(lightning protection area)

Power Line SPD

Signal/Telecom SPD

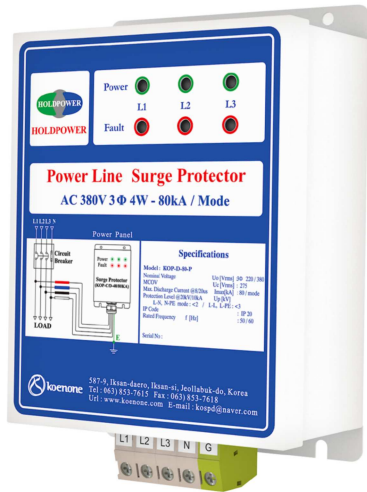
LAN/Coaxial SPD

Power+LAN Integrated Surge Protector

Hourmeter

Size

Power Line Class II, III SPD Normal Type



Model List D-1
(W)113 x (L)171 x (H)80

Single-phase

- KOP-C-40P
- KOP-C-80P

3-phase

- KOP-D-40P

Model List D-2
(W)130 x (L)200 x (H)80

3-phase

- KOP-D-80P

[Unit : mm]

